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Core Network and Interoperability Testing (INT); 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

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

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".

Modal verbs terminology

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"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document specifies the network Test Suite Structure and Test Purposes (TSS&TP) Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICCP) or ISDN User Part (ISUP) for the Profile C (SIP-I) described in the Recommendation ITU-T 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 http://docbox.etsi.org/Reference.

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]	Recommendation ITU-T 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]	Recommendation ITU-T 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]	Recommendation ITU-T E.164: "The international public telecommunication numbering plan".
[10]	IETF RFC 3311 (2002): "The Session Initiation Protocol (SIP) UPDATE Method".
[11]	Recommendation ITU-T 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]	Void.
[i.2]	Recommendation ITU-T Q.731: "Stage 3 description for the number identification supplementary services using SS No.7".
[i.3]	Recommendation ITU-T Q.731.7: "Malicious call identification (MCID)".
[i.4]	Recommendation ITU-T Q.732: "Call diversion services".
[i.5]	Recommendation ITU-T Q.732.7: "Explicit Call Transfer".
[i.6]	Recommendation ITU-T Q.733: "Stage 3 description for call completion supplementary services using Signalling System No. 7: Terminal portability (TP)".
[i.7]	Recommendation ITU-T Q.734: "Stage 3 description for multiparty supplementary services using Signalling System No. 7 : Conference calling".
[i.8]	Recommendation ITU-T Q.734.2: "Three-party service".
[i.9]	Recommendation ITU-T Q.735: "Closed user group (CUG)".
[i.10]	Recommendation ITU-T Q.737: "User-to-user signalling (UUS)".
[i.11]	Recommendation ITU-T Q.784: "ISUP basic call test specification".
[i.12]	Recommendation ITU-T 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 (IUT): 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 Recommendation ITU-T 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

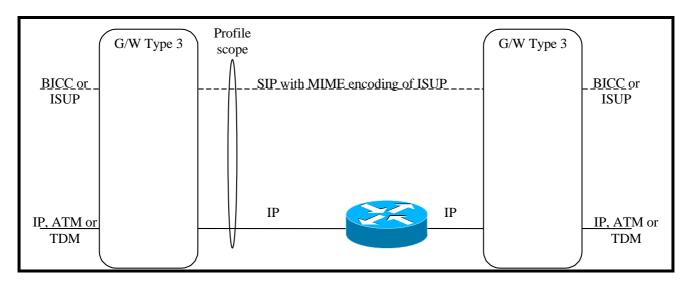


Figure 1: Profile scope for SIP with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateways

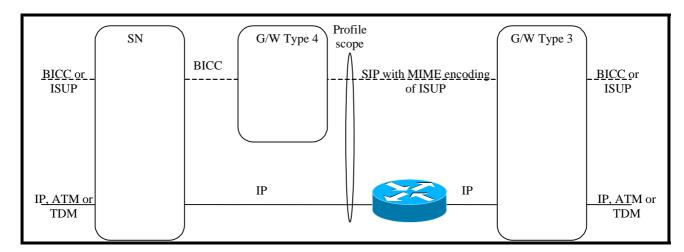


Figure 2: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 3 and 4 gateways

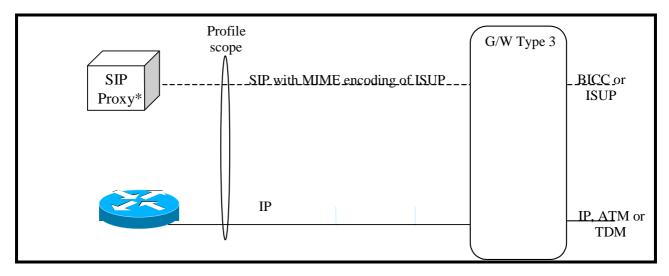


Figure 3: Profile scope for SIP with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateways

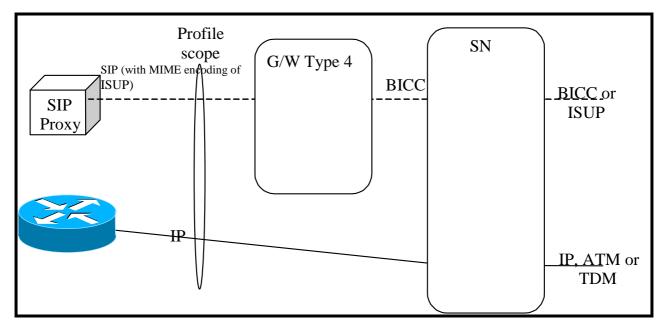


Figure 4: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 4 gateway

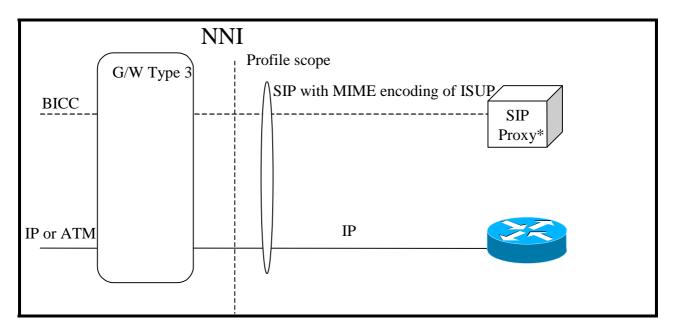


Figure 5: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateway

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

IUTImplementation Under TestLOPLOop Prevention messageMCIDMalicious Call IDentificationMGCFMedia Gateway Control FunctionMIMEMulti-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 RELease message REL

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)			
	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 message (GRS) or Circuit Group Blocking message (CGB) with the indication hardware failure oriented	TP309xxx		
	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
	Closed User Group (CUG)	TP415xxx

- 4.4 Void
- 4.5 Void
- 4.6 Void

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 Recommendation ITU-T 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	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection		NOT PICS 4/4 AND NOT PICS 4/5							
criteria									
ISUP selection	NOT PICS 1/6								
criteria									
Test purpose	Ensure that if the SUT upon rooffer:	·							
	send back in the SDP an	 the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer; the SUT shall immediately send out the IAM. 							
SIP parameter	SIP INVITE: Audio RTP/AVP	•							
values	200 OK: Audio RTP/AVP 8								
ISUP parameter values	IAM USI: A-law or absent								
Comments	SIP-I		SU	IT		ISUP			
	INVITE(IAM)	→			1	IAM			
	180 Ringing(ACM)	+			4	ACM			
	200 OK INVITE(ANM)	+			4	ANM			
	ACK	→							
	Conv			sation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	←			4	RLC			

TP101002	SIP reference: RFC 3261 [4]				-	SUP 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 PICS 4/1								
criteria									
Test purpose	Ensure that if the SUT upon								
	offer 100rel extensions and								
			1U), if pre	sent, fror	m the	media description that it will			
	send back in the SDP a	,							
						with the coding of the Nature			
	of Connection Indicators		ter: "CO	Γto be e	xpect	ed".			
SIP parameter		SIP INVITE: Audio RTP/AVP 0 8							
values	200 OK: Audio RTP/AVP 8								
ISUP parameter	IAM Continuity Indicator: CO			I, USI: A	law o	r absent			
values	COT; Continuity Indicator: co	ontinuity			1	I			
Comments	SIP-I	_	SU	Т		ISUP			
	INVITE(IAM)	→			→	IAM			
	183 Session Progress	+							
	PRACK	→							
	200 OK PRACK	+							
	UPDATE	→			→	COT			
	200 OK UPDATE	+							
			Preconditi	ons met					
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	→							
			Convers	sation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	←			←	RLC			

TP101003	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 NOT PICS 1/6 AND PICS 4/1								
criteria									
Test purpose	 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: the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer; 								
	 the IAM shall be sent out of Connection Indicators 					with the coding of the Nature			
SIP parameter	SIP INVITE: Audio RTP/AVP		51. 00	to be e	Apect	eu .			
values	200 OK: Audio RTP/AVP 8								
ISUP parameter	IAM Continuity Indicator: COT		xpected	I, USI: A-	law o	r absent			
values	COT; Continuity Indicator: co	ntinuity			1				
Comments	SIP-I		SL	Т		ISUP			
	INVITE(IAM)	→			→	IAM			
	183 Session Progress	+							
	PRACK	→							
	200 OK PRACK	+							
	UPDATE	→			→	COT			
	200 OK UPDATE	+							
			econditi	ons met					
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	→							
			Conver	sation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+			←	RLC			

TP101004	SIP reference: RFC 3261 [4]			0.1		SUP reference:			
TSS reference	CID ICLID/Dania call/Canding		.1912.5 [1], clause 6.1.2 (i,2aii)						
	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM) PICS 4/4 AND PICS 4/5								
SIP selection criteria	PICS 4/4 AND PICS 4/5								
ISUP selection	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1								
criteria	I IOO I/O AND NOT I IOO I/O AND I IOO 4/I								
Test purpose	 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: the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer; the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit" or set to "continuity check performed on previous circuit". 								
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: col				ıl				
Comments	SIP-I		SU	Т		ISUP			
	INVITE(IAM)	→			→	IAM			
	183 Session Progress	+							
	PRACK	→							
	200 OK PRACK	+							
	UPDATE	→			↑	COT			
	200 OK UPDATE	+							
		Pı	reconditi	ons met					
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	→							
		<u> </u>	Convers	sation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	←			←	RLC			

TP101005	SIP reference: RFC 3261 [4]			912.5	SUP reference: [1], clause 6.1.2 (i,2aii)				
TSS reference	SIP-ISUP/Basic call/Sendin	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5	PICS 4/4 AND PICS 4/5							
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1	/6 AND PICS 4/							
criteria									
Test purpose	 offer 100rel extensions and the SUT shall delete µ-send back in the SDP at the IAM shall be sent of indicator "continuity continuity contin	 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: the SUT shall delete µ-law (PCMU), if present, from the media description that it will send back in the SDP answer; the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit" or set to "continuity check performed on previous circuit". 							
SIP parameter	SIP INVITE: Audio RTP/AV								
values	200 OK: Audio RTP/AVP 8								
ISUP parameter	IAM Continuity Indicator: cc	ntinuity check	equired or	1 this	circuit or continuity check				
values	performed on previous ci COT Continuity Indicator: c			I					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	183 Session Progress	+							
	PRACK	→							
	200 OK PRACK	+							
	UPDATE	→		→	COT				
	200 OK UPDATE	-							
		Precond	itions met						
	180 Ringing(ACM)	+		←	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			ersation						
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	-		+	RLC				

TP101006	SIP reference: RFC 3	261 [4]			I	SUP reference:		
				Q.19	912.	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							
			U), if pre	sent, from	the i	media description that it will		
	send back in the SDP and	,						
	 the IAM shall be deferred 		precond	litions have	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						1		
Comments	SIP-I		SU	Т		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	IAM		
	200 OK UPDATE	+						
			reconditi	ons met				
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			-	ANM		
	ACK	→						
			Convers	sation		[1]		
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	←			←	RLC		

TP101007	SIP reference: RFC	3261 [4]			JP 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								
	offer 100rel extensions and								
			ИU), if pre	sent, from t	he me	edia description that it will			
	send back in the SDP a	,							
	 the IAM shall be deferred 	d until a	II precond	litions have	been	met.			
SIP parameter	SIP INVITE: Audio RTP/AVF	8 0 9							
values	200 OK: Audio RTP/AVP 8								
ISUP parameter	IAM USI: A-law or absent								
values									
Comments	SIP-I		SL	IT	18	SUP			
	INVITE(IAM)	→							
	183 Session Progress	←							
	PRACK	→							
	200 OK PRACK	←							
	UPDATE	→		-	→ /	AM			
	200 OK UPDATE	+							
			Preconditi	ons met					
	180 Ringing(ACM)	+		•	E A	ACM			
	200 OK INVITE(ANM)	+		•	E A	NM			
	ACK	→							
			Conver	sation					
	BYE(REL)	→		-	→ F	REL			
	200 OK BYE(RLC)	+		•	F	RLC			

TP101008	SIP reference: RFC	SUP reference:							
	Q.1912.5 [1], clause 6.1.2 (i,1)								
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 4/5	5							
criteria									
ISUP selection criteria	PICS 1/6								
Test purpose	offer: • the SUT shall delete A-la	 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; 							
SIP parameter	SIP INVITE: Audio RTP/AVP	_							
values	200 OK: Audio RTP/AVP 0								
ISUP parameter values	IAM USI: μ-law								
Comments	SIP-I		SU	T		ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	→							
			Convers	sation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+			+	RLC			

TP101009	SIP reference: RFC	3261 [4]			ISUP reference:		
					5 [1], clause 6.1.2 (i,2ai)		
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						
criteria							
ISUP selection	PICS 1/4 AND PICS 1/6 AND	PICS 4	·/1				
criteria							
Test purpose	 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: 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; 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". 						
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: continu			•	•		
Comments	SIP-I		SU	IT	ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	COT		
	200 OK UPDATE	←					
		F	reconditi	ons met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Conver	sation			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP101010	SIP reference: RFC 3261 [4]				ISUP reference:		
				Q.1912	2.5 [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	 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: 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; 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". 						
SIP parameter		SIP INVITE: Audio RTP/AVP 0.8					
values	200 OK: Audio RTP/AVP 0						
ISUP parameter	IAM USI: μ-law; Nature of Co	nnection	Indicato	rs parameter	: "COT to be expected" COT;		
values	Continuity Indicator: continui	ty		•	·		
Comments	SIP-I		SU	Т	ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	COT		
	200 OK UPDATE	+					
		P	reconditi	ons met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM [1]		
	ACK	→					
			Convers	sation			
	BYE(REL)	→		→	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	PICS 4/1							
criteria									
Test purpose	 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: 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; 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". 								
SIP parameter	SIP INVITE: Audio RTP/AVP (
values	200 OK: Audio RTP/AVP 0	. •							
ISUP parameter	IAM: USI: μ-law; Continuity ch	eck indicator "	continuity ched	ck required on this circuit" or					
values	continuity check performed o			-					
	COT: Continuity Indicator: con			lious					
Comments	SIP-I		UT	ISUP					
	INVITE(IAM)	→	→	IAM					
	183 Session Progress	(
	PRACK	→							
	200 OK PRACK	(
	UPDATE	→	→	COT					
	200 OK UPDATE	←							
			tions met						
	180 Ringing(ACM)	-	+	ACM					
	200 OK INVITE(ANM)	+	+	ANM					
	ACK	→							
		Conve	rsation						
	BYE(REL)	→	→	REL					
	200 OK BYE(RLC)	(+	RLC					

TP101012	SIP reference: RFC 3	261 [4]	0 1012	ISUP reference:					
TSS reference	Q.1912.5 [1], clause 6.1.2 (i,2aii) SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection									
criteria	PICS 4/4 AND PICS 4/5								
ISUP selection	PICS 1/5 AND PICS 1/6 AND PICS 4/1								
criteria	PICS 1/5 AND PICS 1/6 AND	PICS 4/ I							
Test purpose	 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: 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; 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". 								
SIP parameter	SIP INVITE: Audio RTP/AVP (
values	200 OK: Audio RTP/AVP 0	, 0							
ISUP parameter	IAM: USI: μ-law; Continuity ch	eck indicator '	continuity che	ck required on this circuit"					
values	continuity check performed o								
	COT: Continuity Indicator: cor	tinuity check	successful						
Comments	SIP-I	1 9	SUT	ISUP					
	INVITE(IAM)	→	→	IAM					
	183 Session Progress	+							
	PRACK	→							
	200 OK PRACK	+							
	UPDATE	→	→	СОТ					
	200 OK UPDATE	+							
		Precond	litions met						
	180 Ringing(ACM)	+	+	ACM					
	200 OK INVITE(ANM)	+	-	ANM					
	ACK	→							
		Conv	ersation						
	BYE(REL)	→	→	REL					
	200 OK BYE(RLC)	+	+	RLC					

TP101013	SIP reference: RFC	3261 [4]		ISUP reference:						
			2.5 [1], clause 6.1.2 (i,2b)							
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	PICS 4/4 AND PICS 4/5								
criteria										
ISUP selection criteria	PICS 1/6 AND PICS 4/1									
Test purpose	 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: 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; the IAM shall be deferred until all preconditions have been met. 									
SIP parameter	SIP INVITE: Audio RTP/AVP									
values	200 OK: Audio RTP/AVP 0									
ISUP parameter	IAM USI: μ-law									
values	·									
Comments	SIP-I		SU	JT	ISUP					
	INVITE(IAM)	→								
	183 Session Progress	+								
	PRACK	→								
	200 OK PRACK	+								
	UPDATE	→		-	IAM					
	200 OK UPDATE	+								
			Preconditi	ons met						
	180 Ringing(ACM)	←		+	ACM					
	200 OK INVITE(ANM)	+		(ANM					
	ACK	→								
			Conver	sation						
	BYE(REL)	→		7	REL					
	200 OK BYE(RLC)	←		+	RLC					

TP101014	SIP reference: RFC 3	3261 [4]		ISUP 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	 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: 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; the IAM shall be deferred until all preconditions have been met. 						
SIP parameter	SIP INVITE: Audio RTP/AVP						
values	200 OK: Audio RTP/AVP 0						
ISUP parameter	IAM USI: μ-law						
values	·						
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→					
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	IAM		
	200 OK UPDATE	+					
		Preco	ndition	s met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
		Co	nversat	ion			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	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 PICS 4/4 and NOT PICS 4/5								
Test purpose	 the Calling party's ca in the encapsulated IA the Nature of Connection the appropriate values 	 the Nature of Connection Indicators (NCI) is generated by the MGCF using the Nature of Connection Indicators received in the encapsulated IAM; the appropriate values of the Forward Call Indicator parameter are generated by the MGCF using the Forward Call Indicators parameter present within the received 							
SIP parameter values									
ISUP parameter values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	←		+	ANM				
	ACK	→							
		<u> </u>	Conversation						
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

P101016	SIP reference: RFC 32			SUP 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 st message. The TMR and USI shall be taken • sends an IAM message, with encapsulated ISUP.	from the enca	apsulated ISUF	P:	e with an encapsulated IAM ement (TMR) taken from the			
SIP parameter values	SIP INVITE							
ISUP parameter values	IAM; USI; ISDN_BC_ITR; TMR							
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		(ACM			
	200 OK INVITE(ANM)	+		-	ANM			
	ACK	→						
			Conversation	n				
	BYE(REL)	→		→	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: RF0	C 3261 [4]		0		SUP reference:
T00 (6.0				2.5 [1], clause 6.1.3.5
TSS reference	SIP-ISUP/Basic call/Sendir		itiai Addre	ess iviess	age (IAM)
SIP selection	NOT PICS 4/4 and NOT PI	CS 4/5				
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT in the encapsulated IAM message					
		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	INVITE					
values						
ISUP parameter	IAM; Access transport pa	rameter H	LC: HLC	_VALUE;	USI	
values						
Comments	SIP-I		SU	Γ		ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			←	ACM
	200 OK INVITE(ANM)	+			(ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC) ← 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]		ISUP reference:			
		Q.1912.5 [1], clause 6.1.3.9					
TSS reference	SIP-ISUP/Basic call/Sending	of the Initial Ad	dress Message	e (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	S	UT	ISUP			
	INVITE(IAM)	→	→	IAM			
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	→					
		Conve	rsation				
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101019	SIP reference: RFC 32	261 [4]		I;	SUP reference:		
			(2.1912	2.5 [1], clause 6.1.3.1		
TSS reference	SIP-ISUP/Basic call/Sending of	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	PICS 1/9 AND NOT PICS 4/4	and NOT PIC	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:						
SIP parameter values							
ISUP parameter values	IAM: Called party number						
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	-		+	ACM		
	200 OK INVITE(ANM)	-		+	ANM		
	ACK	→					
			ersation				
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	-		←	RLC		

TP101020	SIP reference: RFC	3261 [4]		ISUP reference:		
				2.5 [1], clause 6.1.3.1		
TSS reference	SIP-ISUP/Basic call/Sending			(IAM)		
SIP selection	PICS 1/9 AND NOT PICS 4/4	4 and NOT PICS	4/5			
criteria						
ISUP selection	PICS 1/7					
criteria						
Test purpose	contained in the user info col Send an IAM Message with the Nature of address indicated Analyse the information format:	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	IAM: Called party number					
values				1		
Comments	SIP-I		JT	ISUP		
	INVITE(IAM)	→	→	IAM		
	180 Ringing(ACM)	-	(ACM		
	200 OK INVITE(ANM)	+	-	ANM		
	ACK	→				
		Conve				
	BYE(REL)	→	→	REL		
	200 OK BYE(RLC)	←	←	RLC		

TP101021	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 In	itial Addr	ress Mess	sage (IAM)
SIP selection	NOT PICS 4/4 AND NOT PIC	CS 4/5 AI	ND PICS	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 RT	P/AVP 0	8			
values	Answer: m=audio 4712 RT	P/AVP 8	0			
ISUP parameter						
values						
Comments	SIP-I		SU	Τ		ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Convers	sation		
	BYE(REL)	→			→	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	of the Ir	nitial Add	ress Mess	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 100rel extensions and					SIP Supported header, then
	independent from the receive					
						with the coding of the Nature
	of Connection Indicators					
	 the G.711 a-law codec sł 	hall be r	eturned i	n the SDF	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			d , USI: A	-law c	or absent
values	COT: Continuity Indicator: co	ntinuity				_
Comments	SIP-I		SL	IT		ISUP
	INVITE(IAM)	→			→	IAM
	183 Session Progress	+				
	PRACK	→				
	200 OK PRACK	←				
	UPDATE	→			→	COT
	200 OK UPDATE	+				
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Conver	sation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

TP101023	SIP reference: RFC 3	261 [4]		SUP reference:			
			EN 383 0	01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending of	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	ot of an INVITE	message with a	SDP offer for μ-Law and			
	a-Law 100rel extensions and p			SIP Require header, then			
	independent from the receiv						
				with the coding of the Nature			
	of Connection Indicators p						
	 the G.711 a-law codec sh 		n the SDP ans	wer as preferred codec.			
SIP parameter	Offer: m=audio 4711 RTP						
values	Answer: m=audio 4712 RTP						
ISUP parameter	IAM: Continuity Indicator: COT		d , USI: A-law c	or absent			
values	COT: Continuity Indicator: cor			T			
Comments	SIP-I	SL		ISUP			
	INVITE(IAM)	→	→	IAM			
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	-					
	UPDATE	→	→	COT			
	200 OK UPDATE	+					
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	←	ANM			
	ACK	→					
		Conver	sation				
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101024	SIP reference: RFC 3	261 [4]		SUP reference:
			EN 383 0	01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending	of the Initial Add	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 receip	ot of an INVITE	message with a	SDP offer for μ-Law and
	a-Law 100rel extensions and			SIP Supported header, then
	independent from the receiv			
	the IAM shall be sent out			
	indicator "continuity che		this circuit" or	" continuity check
	performed on previous			
oup.	• the G.711 a-law codec sh		n the SDP ans	wer as preferred codec.
SIP parameter	Offer: m=audio 4711 RTF			
values	Answer: m=audio 4712 RTF			
ISUP parameter				s circuit or continuity check
values	performed on previous circu COT: Continuity Indicator: con			
Comments	SIP-I	Sl		ISUP
Comments	INVITE(IAM)	→)	IAM
	183 Session Progress	+	7	IAIVI
	PRACK	→		
	200 OK PRACK	+		
	UPDATE	→	→	COT
	200 OK UPDATE	+	7	COT
	180 Ringing(ACM)	+	+	ACM
	200 OK INVITE(ANM)	+	<u>`</u>	ANM
	ACK	→		ANIVI
	AOI.	Conver	sation	
	BYE(REL)	→	→	REL
	200 OK BYE(RLC)	/	<i>,</i>	RLC
	ZOO ON DIL(INLO)	•		INLO

TP101025	SIP reference: RFC 3	261 [4]		ISUP reference:		
				01 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending		Iress 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 receipt of an INVITE message with a SDP offer for μ-Law and				
	a-Law 100rel extensions and			SIP Require header, then		
	independent from the receiv					
				with the Continuity check		
		ck required on	this circuit"" o	continuity check performed		
	on previous circuit";					
OID	• the G.711 a-law codec sh		in the SDP ans	wer as preferred codec.		
SIP parameter	Offer: m=audio 4711 RTF	,				
values	Answer: m=audio 4712 RTF	,,,,,	!! (1-!			
ISUP parameter values	performed on previous			s circuit or continuity check		
values	COT: Continuity Indicator: co					
Comments	SIP-I	Sl		ISUP		
Comments	INVITE(IAM)	→	→ ·	IAM		
	183 Session Progress	-		IAIVI		
	PRACK	→				
	200 OK PRACK	+				
	UPDATE	→	→	COT		
	200 OK UPDATE	+		COT		
	180 Ringing(ACM)	-	+	ACM		
	200 OK INVITE(ANM)	+	+	ANM		
	ACK	→		ANIVI		
	ACK	Conve	reation			
	BYE(REL)	→ Convei	Sation -	REL		
		7	- +			
	200 OK BYE(RLC)	7		RLC		

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

TP101027	SIP reference: RFC 3261 [4]		ISUP reference: EN 383 001 [2], clause 6.1.3.5.2.2					
TSS reference	SID-ISI ID/Rasic call/Sending	of the Ir	nitial Add					
SIP selection		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM) PICS 4/4 AND PICS 4/5 AND PICS 1/9						
criteria	FICS 4/4 AIND FICS 4/5 AINL	FICS	179					
ISUP selection	PICS 1/5 AND NOT PICS 1/6	6 AND N	IOT PICS	3 4/1				
criteria								
Test purpose	Ensure that the SUT on recei	ipt of an	INVITE r	nessage	with a	SDP offer for μ-Law and		
	a-Law 100rel extensions and					SIP Require header, then		
	independent from the recei		•					
	 the shall be deferred unt 							
	 the G.711 a-law codec s 			n the SD	P ans	wer as preferred codec.		
SIP parameter	Offer: m=audio 4711 RT							
values	Answer: m=audio 4712 RT	P/AVP 8	3 0					
ISUP parameter								
values								
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	IAM		
	200 OK UPDATE	+						
	180 Ringing(ACM)	←			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Conver	sation				
	BYE(REL)	→			→	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 of the Initial Address Message (IAM)							
SIP selection	NOT PICS 4/4 AND NOT PIC	CS 4/5 AI	ND PICS	1/9				
criteria								
ISUP selection criteria	PICS 1/7	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 RT	P/AVP 8						
values	Answer: m=audio 4711 RT	P/AVP 8						
ISUP parameter values								
Comments	SIP-I		SU	Т		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			(ACM		
	200 OK INVITE(ANM)							
	ACK							
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC) ← RLC							

TP101029	SIP reference: RFC 3	261 [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 1/4 AND NOT PICS 1/6	AND P	PICS 4/1					
criteria								
Test purpose	Ensure that the SUT on receip							
	μ-Law 100rel extensions and					SIP Supported 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 RTF							
values	Answer: m=audio 4711 RTF							
ISUP parameter	IAM: Continuity Indicator: CO		expecte	d , USI: <i>I</i>	A-law c	or absent		
values	COT: Continuity Indicator: cor	ntinuity						
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	COT		
	200 OK UPDATE	+						
			Precondit	ions met				
	180 Ringing(ACM)	+			←	ACM		
	200 OK INVITE(ANM) ← ANM							
	ACK	→						
			Conver	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			←	RLC		

TP101030	SIP reference: RFC 3	3261 [4]			_	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 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 sh 		ned i	n the SD	P ans	wer.		
SIP parameter	Offer: m=audio 4711 RTF							
values	Answer: m=audio 4711 RTF							
ISUP parameter	IAM: Continuity Indicator: CO		ecte	d , USI: A	-law c	or absent		
values	COT: Continuity Indicator: co	ntinuity				I		
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress	←						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	COT		
	200 OK UPDATE	+						
			nditi	ons met				
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
		Co	nver	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			←	RLC		

TP101031	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 Address Message (IAM)						
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND PICS 1/9						
ISUP selection criteria	PICS 1/5 AND NOT PICS 1/6	AND PI	CS 4/1				
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, then independent the normal offer answer procedures apply: 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"; 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	P/AVP 8					
ISUP parameter					circuit or continuity check		
values	performed on previous COT: Continuity Indicator: continuity Indicator:				i .		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	COT		
	200 OK UPDATE	+					
		Pr	econdition	is met			
	180 Ringing(ACM)	+		←	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Conversa	nversation			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

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 4/4 AND PICS 4/5 AND PICS 1/9						
criteria								
ISUP selection	PICS 1/5 AND NOT PICS 1/6	S AND F	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, then independent the normal offer answer procedures apply:						
	• the IAM shall be sent out indicator "continuity che					with the Continuity check		
	performed on previous			uns cire	cuit 0	continuity check		
	 the G.711 a-law codec s 			n the ST	D and	wer.		
SIP parameter	Offer: m=audio 4711 RTI			T THE OL	n ans	wei.		
values	Answer: m=audio 4711 RTI		-					
ISUP parameter				quired	on thi	s circuit or continuity check		
values	performed on previous circ					j		
	COT: Continuity Indicator: co	ntinuit	y check s	uccess	ful			
Comments	SIP-I		SU	Т		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	COT		
	200 OK UPDATE	+	<u> </u>					
			Preconditi	ons met				
	180 Ringing(ACM)	+			(ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→	0	4				
	DVE(DEL)		Conver	sation		DEL		
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC) ← RLC							

TP101033	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	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					a SDP offer for a-Law and no			
					e SIP Supported header, then			
	independent the normal of							
	 the IAM shall be deferre 							
	the G.711 a-law codec s		eturned i	n the SDP an	swer.			
SIP parameter	Offer: m=audio 4711 RT	-						
values	Answer: m=audio 4711 RT	P/AVP 8						
ISUP parameter								
values		1			Leave			
Comments	SIP-I		SU	IT	ISUP			
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	IAM			
	200 OK UPDATE	+						
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
		<u> </u>	Conver					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	←		+	RLC			

TP101034	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/Sendin	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 P	ICS 4/1						
criteria								
Test purpose					a SDP offer for a-Law and no			
	μ-Law 100rel extensions an				SIP Require header, then			
	independent the normal o							
	 the IAM shall be deferred 							
	• the G.711 a-law codec	shall be return	ed in the	SDP ans	wer.			
SIP parameter	Offer: m=audio 4711 R	Offer: m=audio 4711 RTP/AVP 8						
values	Answer: m=audio 4711 R	TP/AVP 8						
ISUP parameter								
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	IAM			
	200 OK UPDATE	+						
	180 Ringing(ACM)	←		←	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
		Cor	versation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+	•	+	RLC			

TP101035	SIP reference: RFC 32	261 [4]	_	SUP reference:				
TSS reference	EN 383 001 [2], clause 6.1.3.5.2.2 SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
				IAIVI)				
SIP selection	NOT PICS 4/4 AND NOT PICS	S 4/5 AND PICS	5 1/9					
criteria								
ISUP selection criteria	PICS 1/7							
Test purpose	Ensure that the SUT on receip	t of an INVITE r	message with a	SDP offer m line without				
	a-law codec:							
	• the u-law codec shall be	the u-law codec shall be rejected.						
SIP parameter	Offer: m=audio 4711 RTP	Offer: m=audio 4711 RTP/AVP 0						
values	m=audio 4712 RTP	/AVP 8						
	Answer: m=audio 0 RTP/AV	P 0						
ISUP parameter								
values								
Comments	SIP-I	SL	JT	ISUP				
	INVITE(IAM)	→	→	IAM				
	180 Ringing(ACM)	+	+	ACM				
	200 OK INVITE(ANM)	+	+	ANM				
	ACK							
		Conver	sation					
	BYE(REL)	→	→	REL				
	200 OK BYE(RLC)	+	+	RLC				

TP101036	SIP reference: RFC 3	3261 [4]				SUP reference:
						01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending			ress Mes	ssage	(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					
						s in the SIP Supported header:
						with the coding of the Nature
	of Connection Indicators			Γto be e	xpect	ed";
	 the u-law codec shall be 					
SIP parameter	Offer: m=audio 4711 RTF					
values	m=audio 4712 RTF		}			
	Answer: m=audio 0 RTP/AV					
ISUP parameter	IAM: Continuity Indicator: CO		•	d , USI: A	A-law c	or absent
values	COT: Continuity Indicator: co	ntinuity			1	
Comments	SIP-I		SL	JT		ISUP
	INVITE(IAM)	→			→	IAM
	183 Session Progress	+				
	PRACK	→				
	200 OK PRACK	+				
	UPDATE	→			→	COT
	200 OK UPDATE	←				
			recondit	ions met		
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Conver	sation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	←			+	RLC

TP101037	SIP reference: RFC 3	3261 [4]		-	SUP reference:
					01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending		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				
	a-law codec 100rel extension				
					with the coding of the Nature
	of Connection Indicators		COT to	be expect	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	•	cted, U	SI: A-law c	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	←			
		Preco	nditions	met	
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
		Cor	versatio	n	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		←	RLC

TP101038	SIP reference: RFC 3	3261 [4]		ENI	-	SUP reference:	
T00 (EN 383 001 [2], clause 6.1.3.5.2.2 SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
TSS reference				ress Mess	sage (IAM)	
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	/9				
criteria	2100 1/2 1112 1102 1/2						
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND P	ICS 4/1				
criteria			15 13 // TE		•••	000 " " "	
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer m line without a-law codec 100rel extensions and preconditions extensions in the SIP Supported header:						
						• •	
	the IAM shall be sent out in disease "leanting its class".						
	indicator "continuity che			tnis circu	iit or	continuity cneck	
	performed on previous						
CID navamatar	the u-law codec shall be Offer: m=audio 4711 RTF						
SIP parameter values	m=audio 4711 RTF						
values	Answer: m=audio 0 RTP/A\	-)				
ISUP parameter			chock re	auirod o	n this	s circuit or continuity check	
values	performed on previous						
values	COT: Continuity Indicator: co						
Comments	SIP-I		SU			ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→			→	COT	
	200 OK UPDATE	+					
		F	reconditi	ons met			
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	←			+	ANM	
	ACK	→					
			Conver	sation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+			+	RLC	

TP101039	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 Ir	nitial Addr	ess Mes	sage	(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 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 extension						
						with the Continuity check	
	indicator "continuity che			this circ	uit" o	r "continuity check	
	performed on previous						
CID managed an	the u-law codec shall b						
SIP parameter values	Offer: m=audio 4711 RTF m=audio 4712 RTF						
values	Answer: m=audio 0 RTP/A\	-)				
ISUP parameter			chack ro	auired c	n thi	s circuit or continuity check	
values	performed on previous circ				/II (IIII	s circuit of continuity check	
Values	COT: Continuity Indicator: co				ul		
Comments	SIP-I		SU			ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→			→	СОТ	
	200 OK UPDATE	←					
			Precondition	ons met			
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	(+	ANM	
	ACK	→					
		<u> </u>	Convers	ation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	←			←	RLC	

TP101040	SIP reference: RFC 3	261 [4]		-	SUP reference:
					01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending		ddress Mess	sage ((IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9			
criteria					
ISUP selection	NOT PICS 1/6 AND NOT PIC	S 4/1			
criteria					
Test purpose	Ensure that the SUT on receip				
					in the SIP Supported header:
	 the IAM shall be deferred 	•	nditions hav	ve bee	en met;
	the u-law codec shall be				
SIP parameter	Offer: m=audio 4711 RTF	P/AVP 0			
values	m=audio 4712 RTF				
	Answer: m=audio 0 RTP/AV	/P 0			
ISUP parameter					
values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→			
	183 Session Progress	+			
	PRACK	→			
	200 OK PRACK	+			
	UPDATE	→		→	IAM
	200 OK UPDATE	-			
		Precon	ditions met		
	180 Ringing(ACM)	+		←	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
		Conv	ersation		
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+	•	+	RLC

TP101041	SIP reference: RFC 3	3261 [4]			-	SUP reference:		
	EN 383 001 [2], clause 6.1.3.5.2.2							
TSS reference	SIP-ISUP/Basic call/Sending	of the In	itial Add	ress Mess	age ((IAM)		
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND	PICS 1	/9					
ISUP selection criteria	NOT PICS 1/6 AND NOT PIC	NOT PICS 1/6 AND NOT PICS 4/1						
Test purpose	 Ensure that the SUT on receipt of an INVITE message with a SDP offer m line without a-law codec 100rel extensions and preconditions extensions in the SIP Require header: the IAM shall be deferred until all preconditions have been met; the u-law codec shall be rejected. 							
SIP parameter	Offer: m=audio 4711 RTF							
values	m=audio 4712 RTF	P/AVP 8						
	Answer: m=audio 0 RTP/A\	√P 0						
ISUP parameter values								
Comments	SIP-I		SU	JT		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	IAM		
	200 OK UPDATE	+						
		P	reconditi	ons met				
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Conver	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101042	SIP reference: RFC 3261	[4]	FN 1	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	= message \	with a SDP offer with more than		
	one media streams and based or	n operat	or policy th	en:		
	 the call is refused with a 415 	Unsup	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	→				

TP101043	SIP reference: RFC 3261	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	Address Mes	sage (IAM)			
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	1/9 Al	ND PICS 4/1	9			
criteria							
ISUP selection	NOT PICS 1/6						
criteria							
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than						
			•	ons extensions in the SIP Supported			
	header and based on operator po	•					
	 the call is refused with a 415 	Unsu	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)	→					
	415 Unsupported media type	+					
	ACK	→					

TP101044	SIP reference: RFC 3261					
			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	3 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	an INVI	ΓE message	with a SDP offer with more than		
	one media streams 100rel extens	ions an	d preconditio	ns extensions in the SIP Require		
	header and based on operator po	olicy the	en:			
	 the call is refused with a 415 	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)	→				
	415 Unsupported media type	+				
	ACK	→				

TP101045	SIP reference: RFC 3	3261 [4]		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 PIC	S 1/9 AND NOT	PICS 4/19			
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT on receip			a SDP offer with more than			
	one media streams and bas						
				streams and one or more			
			udio streams sh	nall be considered; the other			
	streams shall be rejected						
	 if the SDP offer contains 			ms, the IWU shall only			
	consider one, and reject		ns.				
SIP parameter	Offer: m=audio 4711 RTF						
values	m= audio 4712 RT						
	m= video 4713 RTI	P/AVP 31					
	Answer: m=audio 4711 RTF						
	m=audio 0 RTP/AV						
10115	m=video 0 RTP/AV	/P 31					
ISUP parameter							
values	LOID I		· · ·	TIQUES			
Comments	SIP-I		UT	ISUP			
	INVITE(IAM)	→	→	IAM			
	180 Ringing(ACM)	←	←	ACM			
	200 OK INVITE(ANM)	+	←	ANM			
	ACK	→					
		Conve					
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	←	←	RLC			

TP101046	SIP reference: RFC 3	3261 [4]			ISUP reference:			
					001 [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 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							
	header: and based on opera			D100 : 1	90 d P 7d N 4			
	the IAM shall be sent out of Connection Indicators				e with the coding of the Nature			
					a streams and one or more			
					shall be considered; the other			
	streams shall be rejected		ily tilo ada	io otrodino t	shall be deficialled, the ether			
	if the SDP offer contains		audio type	media stre	ams, the IWU shall only			
	consider one, and reject				,,			
SIP parameter	Offer: m=audio 4711 RTF							
values	m= audio 4712 RT	P/AVP 8	3					
	m= video 4713 RT	P/AVP 3	31					
	Answer: m=audio 4711 RTF	-						
	m=audio 0 RTP/A\							
ISUP parameter	m=video 0 RTP/A\ IAM: Continuity Indicator: CO		ovnoctod	LICI: A low	or absent			
values	COT: Continuity Indicator: co			OSI. A-law	of absent			
Comments	SIP-I	l	SUT		ISUP			
	INVITE(IAM)	→		→				
	183 Session Progress	+			<i>D</i> 444			
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	СОТ			
	200 OK UPDATE	+						
		Prec	onditions	met				
	180 Ringing(ACM)	+		+	_			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→	<u> </u>					
			Conversa					
	BYE(REL)	→		→	1			
	200 OK BYE(RLC)	←		←	RLC			

TP101047	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 AND	NOT PICS 4/19	9			
criteria							
ISUP selection	PICS 1/4 AND NOT PICS 1/0	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 Require header and based on operator policy then:						
				with the ending of the Neture			
	of Connection Indicators			with the coding of the Nature			
				streams and one or more			
				nall be considered; the other			
	streams shall be rejected						
	 if the SDP offer contains 	several audio ty	/pe media strea	ms, the IWU shall only			
	consider one, and reject		ns.				
SIP parameter	Offer: m=audio 4711 RT						
values	m= audio 4712 R						
	m= video 4713 RT	TP/AVP 31					
	Answer: m=audio 4711 RT	D/A\/D 0					
	Answer: m=audio 4711 RT m=audio 0 RTP/A						
	m=video 0 RTP/A						
ISUP parameter	IAM: Continuity Indicator: CO		ed. USI: A-law	or absent			
values	COT: Continuity Indicator: co		54 , 551. 7 (1417)	5. aboon.			
Comments	SIP-I		UT	ISUP			
	INVITE(IAM)	→	→	IAM			
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→	→	СОТ			
	200 OK UPDATE	+					
		Precondition					
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	→					
	D)(E(DEL)		rsation	DEL			
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	+	←	RLC			

TP101048	SIP reference: RFC 3	261 [4]			IS	SUP reference:		
				EN 38	3 00	1 [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 criteria	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1							
SIP parameter values	 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: 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"; 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 several audio type media streams, the IWU shall only consider one, and reject the other streams. Offer: m=audio 4711 RTP/AVP 8 m=audio 4712 RTP/AVP 8 m= video 4713 RTP/AVP 31 							
	Answer: m=audio 4711 RTF m=audio 0 RTP/AV m=video 0 RTP/AV	/P 8						
ISUP parameter	IAM: Continuity Indicator: con		check re	quired on	this	circuit or continuity check		
values	performed on previou					•		
	COT: Continuity Indicator: co	ntinuity	check s	uccessful				
Comments	SIP-I		SU	T		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	COT		
	200 OK UPDATE	+						
		Prec	onditions	met				
	180 Ringing(ACM)	+				ACM		
	200 OK INVITE(ANM)	+		•	←	ANM		
	ACK	→						
			Convers	ation				
	BYE(REL)	→				REL		
	200 OK BYE(RLC)	+		•	←	RLC		

TP101049	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	 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 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"; 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 several audio type media streams, the IWU shall only consider one, and reject the other streams. Offer: m=audio 4711 RTP/AVP 8 m= audio 4712 RTP/AVP 8 m= video 4713 RTP/AVP 31 							
ISUD parameter	Answer: m=audio 4711 RTF m=audio 0 RTP/AV m=video 0 RTP/AV	'P 8 'P 31	nominad on th	nis circuit or continuity check				
ISUP parameter values	performed on previous							
values	COT: Continuity Indicator: co			er it.				
Comments	SIP-I		BUT	ISUP				
Comments	INVITE(IAM)	→	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	183 Session Progress	-		<i>ii</i>				
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→	→	COT				
	200 OK UPDATE	+						
		Preconditio	ns met					
	180 Ringing(ACM)	+	+					
	200 OK INVITE(ANM)	+	+	ANM				
	ACK	→						
			ersation					
	BYE(REL))	→					
	200 OK BYE(RLC)	←	+	RLC				

TP101050	SIP reference: RF0	C 3261 [4]			ISUP reference:			
					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	NOT PICS 1/6 AND NOT P	PICS 4/1						
criteria			.	•••	000 " "			
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:							
	the IAM shall be deferred.			avo bo	on mot			
					streams and one or more			
					nall be considered; the other			
	streams shall be reject		y the addiction	, airio 01	ian be conclusion, the other			
			audio type medi	ia strea	ms, the IWU shall only			
	consider one, and reje				•			
SIP parameter	Offer: m=audio 4711 R	RTP/AVP 8						
values	m= audio 4712 F							
	m= video 4713 F	RTP/AVP 3	1					
	A	TD/A\/D 0						
	Answer: m=audio 4711 R m=audio 0 RTP/							
	m=video 0 RTP/							
ISUP parameter	III=VIGCO O TCTT /	711 01						
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	IAM			
	200 OK UPDATE	+						
			onditions met					
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→	0 "					
	DVE(DEL)		Conversation		l DEI			
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	-			RLC			

TP101051	SIP reference: RF0	3261 [4]			ISUP reference:			
					001 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sendir							
SIP selection	PICS 4/4 AND PICS 4/5 AN	PICS 4/4 AND PICS 4/5 AND PICS 1/9 AND NOT PICS 4/19						
criteria ISUP selection	NOT BIOG 4/2 AND NOT BIOG 4/4							
criteria	NOT PICS 1/6 AND NOT P	NOT PICS 1/6 AND NOT PICS 4/1						
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 several audio type media streams, the IWU shall only							
	consider one, and reject		streams.					
SIP parameter values	m= audio 4712 F m= video 4713 F Answer: m=audio 4711 R	m=audio 0 RTP/AVP 8						
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	IAM			
	200 OK UPDATE	+						
		Precor	nditions met					
	180 Ringing(ACM)	+		←	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversation					
	BYE(REL)	→		→	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/ Sending of the Subsequent Address Message (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 greater 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	SI	JT	ISUP				
	INVITE	→	→	IAM				
	INVITE	→	→	SAM				
	INVITE	→	→	SAM				
	180 Ringing	+	+	ACM				
	200 OK INVITE	-	+	ANM				
	ACK	→						
		Conve	rsation					
	BYE(REL)	→	→	REL				
	200 OK BYE(RLC)	+	+	RLC				

TP102002	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 6.2 b)								
TSS reference	SIP-ISUP/Basic call/ Sending of the Subsequent Address Message (SAM)/								
SIP selection criteria	PICS 3/4								
ISUP selection criteria	PICS 3/8								
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 fewer than the number of digits already accumulated for the call: • then the SUT shall immediately send a 484 Address Incomplete response for this INVITE; • in this case no SAM is sent to BICC/ISUP procedures.								
SIP parameter values									
ISUP parameter values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→	<u> </u>	→	IAM				
	INVITE(IAM)	→							
	484 Address incomplete	+		→	REL				
	ACK	→	•	+	RLC				

5.2.1.3 Sending of COT

TP103001	SIP reference: RFC	3261 [4]		-	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	7				
values		•					
Comments	SIP-I		SL	JT		ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→			→	СОТ	
	200 OK UPDATE	+					
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	+			+	ANM	
	ACK	→					
			Conver	sation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+			←	RLC	

TP103002	SIP reference: RFC	2 3261 [4]			ISUP reference:		
				Q.19	912.5 [1], clause 6.3		
TSS reference	SIP-ISUP/Basic call/ COT						
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 cl	heck suc	cessful;			
values							
Comments	SIP-I		SL		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	←					
	UPDATE	→		→	COT		
	200 OK UPDATE	←					
		P	reconditi	ons met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Conver	sation			
	BYE(REL)	→		→	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 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)	→		→	IAM			
	183 Session Progress (ACM)	+		+	ACM(no indication)			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
		С	onversation	•				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP104002	SIP reference: RF0	C 3261 [4]		-	SUP reference: 2.5 [1], clause 6.5 1)				
TSS reference	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 "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: the 180 Ringing SIP response is sent. Ensure that the in-band information can be transmitted to the calling user; the received ACM is encapsulated in the 180 Ringing. 								
SIP parameter values		'							
ISUP parameter values	ACM FCI: ISUP_ID, ISDN OBCI: OBCI_INBAN		_ID,						
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	ANM								
	ACK	→							
			Conversation	-					
	BYE(REL)	→		→	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 326	1 [4]			ISUP reference: 912.5 [1], clause 6.6					
TSS reference	SIP-ISUP/Basic call/ Receipt of t	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 event information parameter event indicator 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	lication'	'							
values	CPG; event information param	eter ev	ent indicator: /	Alertin	g					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	183 Session Progress (ACM)	+		+	ACM(no indication)					
	180 Ringing(CPG)	+		+	CPG(ALERTING)					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
			Conversation	•						
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP105002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.6					
TSS reference	SIP-ISUP/Basic call/ Receipt of t	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 event information parameter event indicator 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	ACM: Called party status "no ind	ication'	1						
values	CPG; event information param	eter ev	ent indicator: I	Progre	ess				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	183 Session Progress (ACM)	+		+	ACM(no indication)				
	183 Session (CPG)	+		+	CPG(PROGRESS)				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversation						
	BYE(REL)	→		→	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			tor is	set to "in-band information or			
	an appropriate pattern is now							
	 183 Session Progress response 							
	 the received CPG is encaps 	sulated i	n the 183 -sess	sion P	rogress.			
SIP parameter								
values								
ISUP parameter	ACM: Called party status "no inc							
values	CPG; event information param	ieter ev	ent indicator:	in-bar	nd-information or an appropriate			
	pattern is now available							
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	183 Session Progress (ACM)	←		←	ACM(no indication)			
	183 Session (CPG)	←		←	CPG (Inbad Info available)			
	200 OK INVITE(ANM)	←		←	ANM			
	ACK	→						
			Conversation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

5.2.1.6 Receipt of the Answer message (ANM)

TP106001	SIP reference: RFC 320	61 [4]		ISUP reference:				
				912.5 [1], clause 6.7				
TSS reference	SIP-ISUP/Basic call/ Receipt of	the Answer m	nessage (ANM).					
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT, having red	ceived the AC	M message, on	receipt of an ANM message:				
	 sends a 200 OK INVITE; 							
	the received ANM is encap.							
	The bearer path shall be connect	cted in both di	rections when b	ooth of the following conditions				
	are satisfied:		, _					
	the BICC outgoing bearer s			nmendation ITU-I				
	Q.1902.4 [11]) is successfu			E0 0040 (E1) 4				
	the I-IWU determines (using							
		itisfied on the	SIP side for ses	ssion establishment to proceed				
	(if applicable). In addition, if BICC is performing	the "Der cell	boorer oot up i	n the femueral direction"				
	Outgoing bearer set-up procedu							
	bearer path shall be connected							
	and the I-IWU determines (throu							
	preconditions have been met fo			Tri O 00 12 [0]) mat sumoiont				
SIP parameter	200 OK INVITE with encapsulat							
values								
ISUP parameter	ANM							
values								
Comments	SIP-I	S	UT	ISUP				
	INVITE(IAM)	→	→	IAM				
	180 Ringing(ACM)	(+	ACM				
	200 OK INVITE(ANM)	(+	ANM				
	ACK	→						
			rsation					
	= : = (: :==)	→	→	REL				
	200 OK BYE(RLC)	-	+	RLC				

5.2.1.7 Receipt of the Connect message (CON)

TP107001	SIP reference: RFC 32	SIP reference: RFC 3261 [4]		ISUP reference:						
				5 [1], clauses 6.4 and 6.7						
TSS reference	SIP-ISUP/Basic call/ Receipt of	the CONNEC	T message (CC	DN).						
SIP selection										
criteria										
ISUP selection										
criteria	000 (-							
Test purpose	SDP offer was received in the	initial INVITE.	Ensure that the	SUI, on receipt of an CON						
	message:									
	sends a 200 OK INVITE; the received CON is encore	aulatad in tha								
	 the received CON is encap The bearer path shall be conne 									
	are satisfied:	cted in both di	rections when b	our or the following conditions						
	the BICC outgoing bearers Q.1902.4 [11]) is successful			nmendation ITU-T						
	• the I-IWU determines (usin			FC 3312 [5]) that sufficient						
				ssion establishment to proceed						
	(if applicable).									
	In addition, if BICC is performin									
	Outgoing bearer set-up procedu									
	bearer path shall be connected									
	and the I-IWU determines (through a sea met for			RFC 3312 [5]) that sufficient						
SIP parameter	preconditions have been met fo	i trie session t	o proceed.							
values										
ISUP parameter										
values										
Comments	SIP-I	SI	JT	ISUP						
	INVITE(IAM)	→	→	IAM						
	200 OK INVITE(CON)	+	+	CON						
	ACK									
		Conve								
	BYE(REL)	→	→	REL						
	200 OK BYE(RLC)	←	(RLC						

5.2.1.8 Receipt of the REL message

TP108001	SIP reference: RFC 3	261 [4]	SUP 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 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)	→		→	IAM			
	SIP_FAILURE_VA(REL)	+		+	REL			
	ACK	→		→	RLC			

Table 1

	Values for	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
VA_10	404 Address incomplete	incomplete")
VA_17	500 Server Internal Error	Cause Value No. 29 ("facility rejected")
VA_17	480 Temporarily unavailable	Cause Value No. 31 ("normal unspecified")
		(Class default)
VA_19	486 Busy here if Diagnostics indicator	Cause Value in the Class 010 (No circuit/channel available,
	includes the (CCBS indicator = CCBS possible) else 480 Temporarily unavailable	Cause Value No. 34)
VA_20	500 Server Internal Error	Cause Value in the Class 010 (resource unavailable, Cause
VA_20	300 Gerver internal Error	Value No. 38 to 47)
		(47 is class default)
VA_21	500 Server Internal Error	Cause Value No. 50 ("requested facility not subscribed")
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	61 [4]		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 (PI	XIT)						
ISUP parameter values	REL; cause value: CV_ISUP (PIXIT)								
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	183 Session Progress(ACM) ← ACM(no indication)								
	SIP_FAILURE_VA(REL)	+		+	REL				
	ACK	^		→	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]			_	SUP 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 "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 (F	PIXIT)							
ISUP parameter	REL; cause value: CV_ISUP	(PIXIT)								
values										
Comments	SIP-I		SU	Т		ISUP				
	INVITE(IAM)	INVITE(IAM) → IAM								
	180 Ringing(ACM) ← ACM									
	SIP_FAILURE_VA(REL)	+			+	REL				
	ACK	→			→	RLC				

TP108004	SIP reference: RFC 3261 [4]			ISUP reference:						
	Q.1912.5 [1], clause 6.11.2									
TSS reference	SIP-ISUP /Basic call/ Receipt o	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 (PI	XII)							
ISUP parameter	REL; cause value: CV_ISUP (I	PIXIT)								
values										
Comments	SIP-I		SI	JT		ISUP				
	INVITE(IAM)	→			→	IAM				
	183 Session Progress(ACM)	+			+	ACM(no indication)				
	180 Ringing(CPG)	+			+	CPG(ALERTING)				
	SIP_FAILURE_VA(REL)	+			+	REL				
	ACK	→			→	RLC				

Table 3

	Values for test purposes TP108003 and TP108004						
←SIP Message SIP_FAILURE_VA		← REL 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 3261 [4]			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 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 CV_ISUP: • 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)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversation	•				
	BYE(REL)	+		+	REL			
	200 OK BYE(RLC)	→		→	RLC			

TP108006	SIP reference: RFC	3261 [4]		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 CON message, a 200 OK message is sent, on receipt of an ISUP REL, where the cause value defined as CV_ISUP : • 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_ISU	P (PIXIT)						
Comments	SIP-I	5	SUT	ISUP				
	INVITE(IAM)	→	-	→ IAM				
	200 OK INVITE(CON) ← ← CON ACK							
		Conve	ersation					
	BYE(REL)	+	•	F REL				
	200 OK BYE(RLC)	→	-	→ RLC [1]				

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: RFC 3261 [4]			-	SUP reference:	
					Q.191	2.5 [1], clause 6.11.2
TSS reference	SIP-ISUP /Basic call/ Rece	ipt of the	Release r	nessage	(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		SL	JT		ISUP
	INVITE(IAM)	→			^	IAM(Destination 1)
					+	REL(new Destination)
					→	RLC
					→	IAM(Destination 2)
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Conver	sation		
	BYE(REL)	+			+	REL
	200 OK BYE(RLC)	→			→	RLC

5.2.1.9 Autonomous release at I-IWU

TP109001	SIP reference: RFC 3261 [4]				ISUP reference:				
TSS reference	Q.1912.5 [1], clause 6.11.3 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)	INVITE(IAM) → IAM							
	480 Temporarily unavailable (REL)	+		+	RSC				
	ACK → RLC								

TP109002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.11.3					
TSS reference	SIP-ISUP/Basic call/ Autonomous	SIP-ISUP/Basic call/ Autonomous release 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: • shall send a 500 Server Internal Error response on the SIP side.								
SIP parameter values									
ISUP parameter values	Unknown message: Message con	patibility	"Release o	all"					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	180 Ringing(ACM) ← ← ACM							
				+	???				
	500 Server internal error(REL)	+		→	REL				
	ACK	→		+	RLC				

TP109003	SIP reference: RFC 326	61 [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				
	INVITE(IAM) 484 Address incomplete ACK	→ ← →						

TP109004	SIP reference: RFC 3	261 [4]		ISUP reference:				
			Q.1	1912.5 [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 receip	ot of subseque	nt INVITE mes	sage:				
	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	Ş	SUT	ISUP				
	INVITE(IAM)	→						
	INVITE(IAM)	→						
	484 Address incomplete	+						
	ACK	→						

TP109005	SIP reference: RFC 320	61 [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								
Test purpose	Ensure that the SUT in congestion on receipt of INVITE message: • sends an 480 Temporarily Unavailable message.							
SIP parameter values								
ISUP parameter values								
Comments	SIP-I		SUT	ISUP				
	INVITE(IAM)	→						
	480 Temporarily unavailable	+						
	ACK	→						

TP109006	SIP reference: RFC 3261 [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								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the call is released due to the B	ICC/ISUP compa	tibility procedure for unknown					
	parameters:							
	 sends 500 Server Internal Error. 							
SIP parameter								
values								
ISUP parameter	Unknown parameter in ACM: Parameter co	mpatibility "Releas	se call"					
values	·							
Comments	SIP-I	SUT	ISUP					
	INVITE(IAM) → IAM							
		+	ACM(???)					
	500 Server internal error(REL) ←	→	REL					
	ACK →	+	RLC					

TP109007	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								
Test purpose	Ensure that the call is released	due to	expiry of T7 with	in the I	BICC/ISUP procedures:			
	 sends 484 Address Incomp 		. ,		·			
SIP parameter								
values								
ISUP parameter								
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
			T7 expiry	•				
	484 Address incomplete	+		→	REL			
	ACK	→		+	RLC			

TP109008	SIP reference: RFC 32	61 [4]			ISUP reference: 2.5 [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 expiry of T9 within the BICC/ISUP procedures: • sends 480 Temporarily Unavailable.					
SIP parameter values							
ISUP parameter values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	←		+	ACM		
	480 Temporarily unavailable	←	T9 expiry	→	REL		
İ	ACK	→		+	RLC		

5.2.1.10 Receipt of the Release message BYE / CANCEL

TP110001	SIP reference: RFC 3261 [4]			ISUP reference:			
TSS reference	Q.1912.5 [1], clause 6.11.1 SIP-ISUP/Basic call/ Receipt of the BYE-CANCEL message						
	SIF-130F/Basic call/ Receip	of of the bite-	CANCELIII	essage			
SIP selection							
criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT on rec		E , the SUT	shall se	end an ISUP REL with the		
	cause value # 16 to the ISU	P side.					
SIP parameter							
values							
ISUP parameter	REL: Cause value #16, Loc	ation "Networ	k beyond ar	interwo	orking point"		
values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
		Co	nversation	•			
	BYE(REL)	→	·	→	REL		
	200 OK BYE(RLC)	+	<u> </u>	+	RLC		

TP110002	SIP reference: RFC	3261 [4]		Q.19	ISUP reference: 12.5 [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		•	CANCEL, the	I-IWU sh	nall send an ISUP REL with the			
	cause value # 31 to the ISU							
SIP parameter	CANCEL without encapsula	ted ISUP m	nessage					
values								
ISUP parameter	REL: Cause value #31, Loca	ation "Netw	ork beyond a	n interwo	orking point"			
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	CANCEL → REL							
	200 OK CANCEL	+		+	RLC			
	487 Request Terminated	+						
	ACK	→						

TP110003	SIP reference: RFC 3261 [4]					ISUP reference: 2.5 [1], clause 6.11.1		
TSS reference	SIP-ISUP/Basic call/ Receipt	of the E	SYA-CANO			2.0 [1], olddod oll ll		
SIP selection criteria	·	, and the second						
ISUP selection criteria								
Test purpose		Ensure that the SUT on receipt of SIP BYE, the I-IWU shall send an ISUP REL with the cause value # 31 to the ISUP side.						
SIP parameter values	BYE without encapsulated IS	BYE without encapsulated ISUP message						
ISUP parameter values	REL: Cause value #31, Locat	ion "Ne	twork bey	ond an in	iterwo	rking point"		
Comments	SIP-I		SU	T		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
	BYE							
	200 OK BYE							
	487 Request Terminated	+						
	ACK	→						

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]			ISUP reference: Q.1912.5 [1], clauses 6.11.4 and 5			
TSS reference					Circuit group reset message ation hardware failure oriented		
SIP selection criteria							
ISUP selection criteria							
Test purpose	 Ensure that the SUT, when at least one backward ISUP/BICC message relating to the call has already been received on receipt of a RSC message sends: a BYE message if the SUT has already received an ACK for the 200 OK INVITE message which had it sent. 						
SIP parameter values							
ISUP parameter values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	←		+	ACM		
	200 OK INVITE(ANM)	←		+	ANM		
	ACK	→					
		С	onversation	•			
	BYE(REL)	+		+	RSC		
	200 OK BYE(RLC)	→		→	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/ Receip	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							
	 a BYE message if the S which had it sent. 	a BYE message if the SUT has already received an ACK for the 200 OK INVITE message which had it sent.						
SIP parameter								
values								
ISUP parameter								
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	←		←	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	ACK →						
		Co	nversation					
	BYE	+		+	GRS			
	200 OK BYE	→		→	GRA			

TP111003	SIP reference: RFC 3261 [4]			ISUP reference:		
	Q.1912.5 [1], clause 6.11.4					
TSS reference	SIP-ISUP/Basic call/ Receipt c	f Reset circuit	message (F	RSC), (Circuit group reset message	
	(GRS) or Circuit group blocking	g message (C	GB) with the	indica	tion hardware failure oriented	
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT, when at					
	already been received on rece					
	Message Type Indicator coded					
		T has already	received an	ACK f	or the 200 OK INVITE message	
	which had it sent.					
SIP parameter						
values						
ISUP parameter	Circuit Group Supervision Mes	sage Type In	dicator "hard	lware f	ailure oriented"	
values						
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	→		→	IAM	
	180 Ringing(ACM)	←		←	ACM	
	200 OK INVITE(ANM)	-		←	ANM	
	ACK	→				
		Cor	versation			
	BYE	+	•	+	CGB(hardware failure)	
	200 OK BYE	→		→	CGBA	

TP111004	SIP reference: RFC 3261 [4] ISUP reference:				
			Q.1	912.5	[1], clauses 6.11.4 and 5
TSS reference	SIP-ISUP/Basic call/ Receipt	of Reset circ	cuit message (F	RSC),	Circuit group reset message
	(GRS) or Circuit group blocki	ng message	(CGB) with the	e indica	ation hardware failure oriented
SIP selection					
criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT, when a	t least one b	ackward ISUP/	BICC	message relating to the call has
	already been received on rec				
	200 OK INVITE if the SUT ha				
	 the SUT shall wait until it BYE. 	receives the	ACK for the 2	00 OK	INVITE before sending the
SIP parameter					
values					
ISUP parameter					
values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	←		+	ACM
	200 OK INVITE(ANM)	+		←	ANM
				←	RSC
	ACK	→		→	RLC
	BYE(REL)	←			
	200 OK BYE(RLC)	→			

TP111005	SIP reference: RFC 3261 [4] ISUP reference:						
	Q.1912.5 [1], clauses 6.11.4 and 5						
TSS reference:	SIP-ISUP/Basic call/ Receip	t of Reset circui	t message	(RSC), (Circuit group reset message		
	(GRS) or Circuit group block	ing message (C	GB) with t	he indica	ation hardware failure oriented		
SIP selection							
criteria:							
ISUP selection criteria:							
Test purpose:	Ensure that the SUT, when at least one backward ISUP/BICC message relating to the call has already been received on receipt of a GRS message sends 200 OK INVITE if the SUT has not yet received an ACK for the 200 OK INVITE: • the SUT shall wait until it receives the ACK for the 200 OK INVITE before sending the BYE.						
SIP parameter							
values:							
ISUP parameter							
values:							
Comments:	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	-		+	ACM		
	200 OK INVITE(ANM)	200 OK INVITE(ANM) ← ANM					
				+	GRS		
	ACK	→		→	GRA		
	BYE	+					
	200 OK BYE	→					

TP111006	SIP reference: RFC 32	261 [4]	ISUP reference:			
	Q.1912.5 [1], clause 6.11.4					
TSS reference	SIP-ISUP/Basic call/ Receipt or					
	(GRS) or Circuit group blocking	g message (CG	B) with the indic	ation hardware failure oriented		
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT, when at I already been received on recei					
	Message Type Indicator coded					
	200 OK INVITE if the SUT has					
				INVITE before sending the		
	BYE.			Ç		
SIP parameter						
values						
ISUP parameter	Circuit Group Supervision Mes	sage Type Indi	cator "hardware	failure oriented"		
values	OLD 1	 	OUT.	LIQUID		
Comments	SIP-I		SUT	ISUP		
	INVITE(IAM)	→	→	IAM		
	180 Ringing(ACM)	-	+	ACM		
	200 OK INVITE(ANM)	+	+	ANM		
				0000		
			+	CGB(hardware failure)		
	ACK	→	→	CGBA		
	BYE	-				
	200 OK BYE	→				

TP111007	SIP reference: RFC 3261 [4]	Q.1	-	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, when at least one backward ISUP/BICC message relating to the call has already been received on receipt of a RSC message sends: • a 500 Server Internal Error on the SIP side.							
SIP parameter values								
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM) 180 Ringing(ACM) 500 Server Internal Error(REL)	+ + +		→ ←	IAM ACM 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 (R	SC), (Circuit group reset message			
	(GRS) or Circuit group blocking	message (CC	B) with the	indica	tion hardware failure oriented			
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT, when at lea				nessage relating to the call has			
	already been received on receip	t of a GRS m	essage send	ds:				
	 a 500 Server Internal Error 	on the SIP si	de.					
SIP parameter								
values								
ISUP parameter								
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		1	IAM			
	180 Ringing(ACM)	80 Ringing(ACM) ← ← ACM						
	500 Server Internal Error	+	·	4	GRS			
	ACK	→		→	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)	→		→	IAM			
	180 Ringing(ACM)	←		←	ACM			
	500 Server Internal Error	←		←	CGB(hardware failure)			
	ACK → CGBÀ							

TP111010	SIP reference: RFC 3261 [4]		ISUP reference:			
				[1], clauses 6.11.4 and 5		
TSS reference	SIP-ISUP/Basic call/ Receipt					
	(GRS) or Circuit group blocking	ng message (CG	B) with the indica	tion 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		SUT	ISUP		
	INVITE(IAM) 1	→	→	IAM		
	180 Ringing(ACM)	+	+	ACM		
	200 OK INVITE(ANM)	+	+	ANM		
	ACK	→				
	INVITE(IAM) 2	→	→	IAM		
	180 Ringing(ACM)	+	+	ACM		
	200 OK INVITE(ANM)	+	+	ANM		
	ACK	→				
	BYE 1	+	+	GRS		
	200 OK BYE	→	→	GRA		
	BYE 2	+		0.0.		
	200 OK BYE	→				

TP111011	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 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	→	→	IAM			
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	←	+	ANM			
	ACK	→					
	INVITE(IAM) 2	→	→				
	180 Ringing(ACM)	+	+	7.0			
	200 OK INVITE(ANM)	←	+	ANM			
	ACK	→					
	BYE 1	-	←	CGB(hardware failure)			
	200 OK BYE	→	→	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 suspend indicator set to "network initiated"						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT, on red "network initiated": is transferred in an INF	-	END messa	ige with	the suspend indicator set to		
SIP parameter values							
ISUP parameter values	SUS; Suspend indicator: network initiated						
Comments	SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM)	→ ← ←	SUT	→ ← ←	ISUP IAM ACM ANM		
	ACK	→ Co	nversation				
	INFO(SUS) 200 OK INFO	÷ →		+	SUS(network)		
	BYE(REL) 200 OK BYE(RLC)	→ ←		→	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 suspend indicator 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 suspend indicator 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 INVITE(IAM)	→	SUT	→	ISUP IAM	
	180 Ringing(ACM) 200 OK INVITE(ANM)	+		+	ACM ANM	
	ACK → Conversation					
	INFO(SUS) 200 OK INFO	←		+	SUS(network)	
			T6 is started			
	BYE(REL)	+	T6 is expired	→	REL	
	200 OK BYE(RLC)	→		+	RLC	

5.2.1.13 Receipt of the RESume message (RES) network initiated

TP113001	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.10		
TSS reference	SIP-ISUP/Basic call/					
SIP selection criteria						
ISUP selection						
criteria						
Test purpose	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			<u>-</u>			
ISUP parameter values	RES; Suspend indicator: network initiated					
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	→		→	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	→				
			Conversation			
	INFO(SUS)	←		+	SUS(network)	
	200 OK INFO	→		+		
	INFO(RES)	+			RES(network)	
	200 OK INFO	→				
	BYE(REL)	→		→	REL	
	200 OK BYE(RLC)	+		+	RLC	

5.2.1.14 Receipt of Confusion message

TP114001	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 / Confusion message							
SIP selection criteria	-							
ISUP selection criteria								
Test purpose SIP parameter	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. 180 Ringing containing an ACM with an unknown parameter							
values								
ISUP parameter	INFO with encapsulated CFN							
values Comments	SIP-I				ISUP			
Comments	INVITE	→		→	IAM			
	183 Session Progress(CFN)	-		,	CFN			
	180 Ringing(ACM)	`		(ACM			
	200 OK INVITE(ANM)	+		-	ANM			
	ACK	→						
			Commu	ınication				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		(RLC			

5.2.1.15 Segmentation

TP115001	SIP reference: RF	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 user part test message								
SIP selection						·			
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that a call can be	successf	ully complet	ed if se	egmenta	tion applies in backward			
	direction.								
SIP parameter	180 Ringing - encapsulate		optional bad	ckward	call indi	cator absent or set to "no			
values	additional information will	be sent"							
	No action takes place on								
ISUP parameter	ACM: optional backward of	call indica	ator: additio	nal info	rmation	will be sent in a segmentation			
values	message								
	SGM: optional parameters	3							
Comments	SIP-I		SU	Γ		ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	-			←	ACM			
					←	SGM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	ACK →							
			Convers	ation					
	BYE(REL)	→			→	REL			
	200 OK BYE	+			+	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: Q.1912.5 [1], clause 7.1 1 a)				
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 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 values	IAM; Called party number: with	sending co	mplete indic	ation				
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	(+	180 Ringing(ACM)			
	ANM	(+	200 OK INVITE(ANM)			
				→	ACK			
		Cor	nversation					
	REL	→		→	BYE(REL)			
	RLC	(+	200 OK BYE(RLC)			

TP301002	SIP reference: RFC 326	1 [4]		15	SUP reference:			
				2.1912	.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	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Conversation					
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP301003	SIP reference: RFC 326	nce: RFC 3261 [4]			SUP reference: .5 [1], clause 7.1 1 c)				
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 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: com	olete numbe	er						
Comments	ISUP/BICC		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	-		+	180 Ringing(ACM)				
	ANM	(+	200 OK INVITE(ANM)				
		→ ACK							
		Con	versation						
	REL	→		→	BYE(REL)				
	RLC	(+	200 OK BYE(RLC)				

TP301004	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [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 complete called party number where the end of address signalling is determined by the expiration timer T _{OIW1} 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					
				→	INVITE(IAM)			
	ACM ←			+	180 Ringing(ACM)			
	ANM ←			+	200 OK INVITE(ANM)			
				→	ACK			
		Con	versation					
	REL →			→	BYE(REL)			
	RLC +			←	200 OK BYE(RLC)			

TP301005	SIP reference: RFC 326				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 complete called 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	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
	Conversation							
	REL	→		→	BYE(REL)			
	RLC ← 200 OK BYE(RLC)							

TP301006	SIP reference: RFC 3261 [4]	Į:	SUP reference:				
	Q.1912.5 [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 NOT 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 →	→	INVITE(IAM)				
	ACM ←	+	180 Ringing(ACM)				
	ANM ←	+	200 OK INVITE(ANM)				
		→	ACK				
	Co	onversation					
	REL →	→	BYE(REL)				
	RLC ←	+	200 OK BYE(RLC)				

TP301007	SIP reference: RFC 3261 [4]		ISUP reference:				
	Q.1912.5 [1], clause 7.1 A)						
TSS reference	ISUP-SIP/Basic call/Sending of the INVIT	E message					
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5 AND I	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 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			I				
Comments	ISUP	SUT	SIP-I				
	IAM →						
	COT →	→	INVITE(IAM)				
	ACM ←	←	180 Ringing(ACM)				
	ANM ←	←	200 OK INVITE(ANM)				
		→	ACK				
	C	Conversation					
	REL →	→	BYE(REL)				
	RLC ←	+	200 OK BYE(RLC)				

TP301008	SIP reference: RFC 326	1 [4]	ISUP reference:				
			Q.191	2.5 [1], clause 7.1 A)			
TSS reference	ISUP-SIP/Basic call/Sending of						
SIP selection	NOT PICS 4/4 AND NOT PICS	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	→		•			
	COT	→		•			

TP301009	SIP reference: RFC 3261	[4]	Q.1	ISUP reference: 1912.5 [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									
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	UT	SIP-I					
	IAM →								
	T8 expiry								
	1,22	-							
	RLC =	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	4/15						
criteria								
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 where the Continuity Check indicator in the Nature of Connection Indicators parameter in the IAM is set to indicate "continuity check not required": • sends an INVITE message without precondition using the SDP offer in the INVITE.							
SIP parameter values								
ISUP parameter values								
Comments	ISUP	5	SUT	SIP-I				
	IAM -	•	7	INVITE(IAM)				
	ACM ←	•	•	180 Ringing(ACM)				
	ANM •	•	•	200 OK INVITE(ANM)				
	→ ACK							
		Conv	ersation					
	REL -	•	7	BYE(REL)				
	RLC •	•	•	200 OK BYE(RLC)				

TP301011	SIP reference: RFC 32	61 [4]			-	SUP reference:	
	Q.1912.5 [1], clause 7.1 B)						
TSS reference	ISUP-SIP/Basic call/Sending of			essage			
SIP selection	PICS 4/4 AND PICS 4/5 AND F	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 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 successful" was received and the requested preconditions are met in the SIP network.						
SIP parameter			_				
values							
ISUP parameter							
values							
Comments	ISUP		S	SUT		SIP-I	
	IAM	→			→	INVITE(IAM)	
					←	183 Session Progress	
					→	PRACK	
					+	200 OK PRACK	
	COT(successful)	→			→	UPDATE	
					+	200 OK UPDATE	
	Preconditions met						
	ACM ← 180 Ringing(ACM) ANM ← 200 OK INVITE(ANM)						
					→	ACK	
			Conve	ersation			
	REL	→			→	BYE(REL)	
	RLC	←			←	200 OK BYE(RLC)	

TP301012	SIP reference: RFC 3261 [4	.]	I;	SUP reference:		
	Q.1912.5 [1], clause 7.1 B)					
TSS reference	ISUP-SIP/Basic call/Sending of the	NVITE me	essage			
SIP selection	PICS 4/4 AND PICS 4/5 AND 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 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 reques	sted preconditions	s are met in the SIP network.		
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP	S	SUT	SIP-I		
	IAM →		→	INVITE(IAM)		
			+	183 Session Progress		
			→	PRACK		
			←	200 OK PRACK		
	COT(successful) →		→	UPDATE		
			←	200 OK UPDATE		
		Precond	ditions met			
	ACM ←		←	180 Ringing(ACM)		
	ANM ←		(200 OK INVITE(ANM)		
			→	ACK		
		Conv	ersation			
	REL →		→	BYE(REL)		
	RLC +		+	200 OK BYE(RLC)		

TP301013	SIP reference: RFC 326	61 [4]			SUP reference:			
	Q.1912.5 [1], clause 7.1 B)							
TSS reference	ISUP-SIP/Basic call/Sending of	the INVITE r	nessage					
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND P	ICS 4/15						
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	→		→	INVITE(IAM)			
				+	100 Trying			
	COT(unsuccessful)	COT(unsuccessful) → CANCEL						
				+	200 OK CANCEL			
				+	487 Request Terminated			
				1	ACK			

TP301014	SIP reference: RFC 3261 [4] ISUP reference:							
	Q.1912.5 [1], clause 7.1 B)							
TSS reference	ISUP-SIP/Basic call/Sending of	the INVI7	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		e call has bee	en cleared	d before an early dialogue has			
	been established. Ensure that the	ne SUT:						
	 sends CANCEL on the SIP 	side.						
SIP parameter								
values								
ISUP parameter								
values								
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
				←	100 Trying			
	T8 expires							
	REL(#47)							
	RLC	→		+	200 OK CANCEL			
				+	487 Request Terminated			
				→	ACK			

TP301015	SIP reference: RFC 3261 [4]				SUP reference:		
	Q.1912.5 [1], clause 7.1 C)						
TSS reference	ISUP-SIP/Basic call/Sending of the II	NVITE me	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	f an IAM me	essage	e indicating "COT to be		
	expected":						
	 The sending of the INVITE is de 						
	 Continuity message, w 	ith the Co	ntinuity Ind	icators	s parameter set to "continuity"		
	shall be received.						
	 Bearer Set-up indication 	n - for the	e forward be	earer s	set-up case where the		
	incoming Connect Type	e is "notifi	cation not r	equire	ed" was received.		
SIP parameter							
values							
ISUP parameter							
values							
Comments	BICC	5	SUT		SIP-I		
	IAM →						
	COT(successful) →			1	INVITE(IAM)		
	ACM ←			+	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)						
	→ ACK						
		Conv	ersation				
	REL →			→	BYE(REL)		
	RLC ←			+	200 OK BYE(RLC)		

TP301016	SIP reference: RFC 3261 [4]		ISUP reference:			
			Q.19	12.5 [1], clause 7.1 C)			
TSS reference:	ISUP-SIP/Basic call/Sending of the	INVITE me	essage				
SIP selection	NOT PICS 4/15						
criteria							
ISUP selection	PICS 1/4						
criteria							
Test purpose	expected":	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:					
	 Continuity message, shall be received. 	with the Co	entinuity Indicate	ors parameter set to "continuity"			
	 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. 						
SIP parameter							
values							
ISUP parameter							
values							
Comments	BICC		SUT	SIP-I			
	IAM →						
	COT(successful) →						
	APM →		→	INVITE(IAM)			
	ACM ←		←	180 Ringing(ACM)			
	ANM ← 200 OK INVITE(ANM)						
			→	ACK			
		Conv	ersation				
	REL →		→	BYE(REL)			
	RLC +		+	200 OK BYE(RLC)			

Table 5 Void

TP301017	SIP reference: RFC 3261	1 [4]	-	SUP reference: 2.5 [1], clause 7.1 C)				
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message							
SIP selection criteria	NOT PICS 4/15							
ISUP selection criteria	PICS 1/4							
Test purpose SIP parameter values ISUP parameter	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. - Bearer Set-up Connect indication - for the backward bearer set-up case was received.							
values								
Comments	ISUP		SUT	SIP-I				
		→						
	COT(successful)	→	→	INVITE(IAM)				
	ACM	+	+	180 Ringing(ACM)				
	ANM	(+	200 OK INVITE(ANM)				
			→	ACK				
		Conv	ersation					
	REL	→	→	BYE(REL)				
	RLC	+	+	200 OK BYE(RLC)				

TP301018	SIP reference: RFC 3261 [4]	=	SUP reference: I], clauses 7.1 C) and 2.4			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE m		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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 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	SUT	SIP-I			
	IAM →					
	COT(successful) →	→	INVITE(IAM)			
	ACM ←	+	180 Ringing(ACM)			
	ANM ← 200 OK INVITE(ANM)					
		→	ACK			
		ersation				
	REL →	→	BYE(REL)			
	RLC ←	←	200 OK BYE(RLC)			

TP301019	SIP reference: RFC 326	61 [4]		19	SUP reference:			
	Q.1912.5 [1], clause 7.1 C)							
TSS reference	ISUP-SIP/Basic call/Sending of	the INVI	TE message					
SIP selection	NOT PICS 4/15							
criteria								
ISUP selection criteria	PICS 1/4							
Test purpose	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	Side of the C ivve							
ISUP parameter values								
Comments	ISUP		SUT		SIP-I			
	IAM	→						
	T8 expires							
	REL(#41) ←							
	RLC	→	·					

TP301020	SIP reference: RFC 3261 [4]			SUP reference: 2.5 [1], clause 7.1 D)				
TSS reference	ISUP-SIP/Basic call/Sending of the IN	IVITE messa	age					
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND PICS 4/	/15						
ISUP selection criteria	PICS 1/4 AND PICS 4/2	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 →		→	INVITE(IAM)				
			+	183 Session Progress				
			→	PRACK				
			+	200 OK PRACK				
	COT(successful) →		→	UPDATE				
			+	200 OK UPDATE				
		Preconditio	ns met					
	ACM ←		+	180 Ringing(ACM)				
	ANM		+	200 OK INVITE(ANM)				
			→	ACK				
		Conversa	ation					
	REL →			BYE(REL)				
	RLC ←		(200 OK BYE(RLC)				

TP301021	SIP reference: RFC 3261 [4]			IS	SUP reference:	
			Q.191	2.5 [1	l], clauses 7.1 D) and 2.2	
TSS reference	ISUP-SIP/Basic call/Sending of the INV	√ITE me	ssage			
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 4/1	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. 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.					
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP/BICC	S	JT		SIP-I	
	IAM →			→	INVITE(IAM)	
				+	183 Session Progress	
				→	PRACK	
				+	200 OK PRACK	
	COT(successful) →			→	UPDATE	
				+	200 OK UPDATE	
		Precond	tions met			
	ACM ← 180 Ringing(ACM)					
	ANM ←			+	200 OK INVITE(ANM)	
				→	ACK	
		Conve	rsation			
	REL →			→	BYE(REL)	
	RLC ←			+	200 OK BYE(RLC)	

TP301022	SIP reference: RFC 3261	[4]	0.4046	ISUP reference:		
	Q.1912.5 [1], clauses 7.1 D) and 2.3					
TSS reference	ISUP-SIP/Basic call/Sending of the		essage			
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	6 4/15				
criteria	2100 111					
ISUP selection	PICS 1/4					
criteria						
Test purpose SIP parameter	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.					
values						
ISUP parameter						
values						
Comments	ISUP/BICC	5	SUT	SIP-I		
	IAM =	>		→ INVITE(IAM)		
				← 183 Session Progress		
				→ PRACK		
				← 200 OK PRACK		
	COT(successful)	>		→ UPDATE		
				← 200 OK UPDATE		
		Precon	ditions met			
	ACM •	•		← 180 Ringing(ACM)		
	ANM	•		← 200 OK INVITE(ANM)		
				→ ACK		
		Conv	ersation			
	REL -	\		→ BYE(REL)		
	RLC •	•		← 200 OK BYE(RLC)		

TP301023	SIP reference: RFC 3261 [4	!]		IS	SUP reference:	
			Q.191	2.5 [1], clauses 7.1 D) and 2.4	
TSS reference	ISUP-SIP/Basic call/Sending of the	INVITE 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						
values						
ISUP parameter						
values Comments	DICC		NIT.		ICID I	
Comments	BICC →		SUT	→	SIP-I INVITE(IAM)	
	IAIVI			-	183 Session Progress	
				-	PRACK	
				÷	200 OK PRACK	
	COT(successful) →			`	UPDATE	
	COT (Successiui)			′	200 OK UPDATE	
		Precond	ditions met		200 OK OF BIXTE	
	ACM	1 1000110	altions met	+	180 Ringing(ACM)	
	ANM			`	200 OK INVITE(ANM)	
				<u>`</u>	ACK	
		Conv	ersation			
	REL →			→	BYE(REL)	
	RLC +			+	200 OK BYE(RLC)	

TP301024	SIP reference: RFC 326	61 [4]		19	SUP reference:			
	Q.1912.5 [1], clause 7.1 D)							
TSS reference	ISUP-SIP/Basic call/Sending of	the INVITE n			,			
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				expires if the call has been			
	cleared before an early dia	logue has be	en establishe	ed.				
SIP parameter								
values								
ISUP parameter								
values								
Comments	BICC		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
				+	100 Trying			
		T8	expires					
	REL(#47) ← CANCEL							
	RLC	→	`	+	200 OK CANCEL			
			`	+	487 Request Terminated			
				→	ACK			

TP301025	SIP reference: RFC 3261 [4]				SUP reference:			
	Q.1912.5 [1], clause 7.1							
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message							
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	Ensure that the SUT in Idle state, on receipt of an IAM message containing Continuity Check ndicator in the Nature of Connection Indicators parameter which is set to "COT to be expected". Ensure that the SUT: 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; a REL with Cause Value 47 (resource unavailable, unspecified) shall be sent on the ISUP side of the O-IWU.							
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	3261 [4]		_	SUP reference: 12.5 [1], clause 7.1.1			
TSS reference	ISUP-SIP/Basic call/ Sending	g of the INV	ITE messag	е				
SIP selection criteria	Based on table 6							
ISUP selection criteria								
Test purpose	Medium Requirement (TMR contained in the IAM:	• sends an INVITE message containing the media description defined with the "a =" "b						
SIP parameter values	INVITE : a_b_m_LINE_VALU							
ISUP parameter values	IAM: TMR : ISUP_TMR							
Comments	ISUP/BICC IAM	→	SUT	→	SIP-I INVITE(IAM)			
	ACM ← 180 Ringing(ACM) ANM ← 200 OK INVITE(ANM)							
	DE1		onversation	→	ACK			
	REL RLC	→ ←		→	BYE(REL) 200 OK BYE(RLC)			

TP301027	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 7.1.1					
TSS reference	ISUP-SIP/Basic call/ Sending of the INVITE message								
SIP selection criteria	Based on table 7								
ISUP selection criteria									
Test purpose	Ensure that the SUT in the Idle state on receipt of an IAM message, with the user information parameter set to USI_VALUE: • sends an INVITE message, with 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: USI : ISUP_USI								
Comments	ISUP/BICC		SU	Τ		SIP-I			
	IAM	→			→	INVITE(IAM)			
	ACM	+			+	180 Ringing(ACM)			
	ANM	+			+	200 OK INVITE(ANM)			
					→	ACK			
			Convers	ation					
	REL	→			→	BYE(REL)			
	RLC	+			+	200 OK BYE(RLC)			

Table 6

	Values for test purposes TP301026										
	ISUP	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></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		ISU	JP				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></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 3261 [4]			_	SUP reference: 2.5 [1], clause 7.1.2
TSS reference	ISUP-SIP/Basic call/ Sendin	g of the	NVITE messag	е	
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Ensure that the SUT is map Called Party Number param to the addr-spec compo	eter of th	e IAM:		
SIP parameter	INVITE: To:				<u>-</u>
values					
ISUP parameter					
values					
Comments	ISUP/BICC		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversation		
	REL	→		→	BYE(REL)
	RLC	+		+	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 INVITE message								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Called Party Number parameter of to the addr-spec component o	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 To header field 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 →		→	INVITE(IAM)					
	ACM ←		+	180 Ringing(ACM)					
	ANM ←		+	200 OK INVITE(ANM)					
			→	ACK					
		Conver	sation						
	REL →		→	BYE(REL)					
	RLC +		+	200 OK BYE(RLC)					

TP301030	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [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 ma Called Party Number para to the addr-spec comp	meter of the IAM	l and the a	nd the f				
SIP parameter	INVITE: To:	' '						
values								
ISUP parameter								
values								
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	→						
	SAM	→						
	SAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
		Con	versation					
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP301031	SIP reference: RFC 326	1 [4]		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 Called Party address information to the addr-spec componen "user=phone" URI paramete	n of the IAM t of the To h	and followed SA eader field which	AM: ch shall include the				
SIP parameter values	INVITE: To: sip:; user=phone)						
ISUP parameter values								
Comments	ISUP/BICC	5	UT	SIP-I				
	IAM -	→						
	SAM -	→						
	SAM -	→	→	INVITE(IAM)				
	ACM	-	+	180 Ringing(ACM)				
	ANM	-	+	200 OK INVITE(ANM)				
			→	ACK				
		Conve	ersation					
	REL -	→	→	BYE(REL)				
	RLC •	€	←	200 OK BYE(RLC)				

TP301032	SIP reference: RFC 3261 [4]			Q.19	ISUP reference: 12.5 [1], clause 7.1.4
TSS reference	ISUP-SIP/Basic call/Send	ding of the Initial A	Address Me	ssage	(IAM)
SIP selection		_			
criteria					
ISUP selection criteria	PICS 4/3				
Test purpose	The O-IWU acting as an Counter procedure as it of				n the normal BICC/ISUP Hop d IAM.
SIP parameter					
values					
ISUP parameter					
values					
Comments	ISUP/BICC		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	-		←	180 Ringing(ACM)
	ANM	←		←	200 OK INVITE(ANM)
				→	ACK
		Con	versation		
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP301033	SIP reference: RFC 3	3261 [4]			ISUP reference:					
	Q.1912.5 [1], clause 7.1.2									
TSS reference	ISUP-SIP/Basic call/ Sending	ISUP-SIP/Basic call/ Sending of the INVITE message								
SIP selection	PICS 1/9									
criteria										
ISUP selection	PICS 1/8									
criteria										
Test purpose	Called Party Number parame to the addr-spec component of The format of the To header f	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-LIRI								
SIP parameter values	INVITE: To:									
ISUP parameter values										
Comments	ISUP/BICC		SUT		SIP-I					
	IAM	→		→	INVITE(IAM)					
	ACM	+		+	180 Ringing(ACM)					
	ANM	+		+	200 OK INVITE(ANM)					
				→	ACK					
			Conversation							
	REL	→		→	BYE(REL)					
	RLC	+	•	+	200 OK BYE(RLC)					

TP301034	SIP reference: RFC 3	-	SUP reference: 12.5 [1], clause 7.1.2							
TSS reference	ISUP-SIP/Basic call/ Sending of the INVITE message									
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		SUT		SIP-I					
	IAM	↑		→	INVITE(IAM)					
	ACM	+		←	180 Ringing(ACM)					
	ANM	+		←	200 OK INVITE(ANM)					
				→	ACK					
		C	onversation							
	REL	→		→	BYE(REL)					
	RLC	+		+	200 OK BYE(RLC)					

TP301035	SIP reference: RFC 3261	[4]	ISUP reference: Q.1912.5 [1], clause 7.1.2					
TSS reference	ISUP-SIP/Basic call/ Sending of th	e INVITE m	nessage					
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, Nature of address = "International number" of the IAM and the 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 +		+	200 OK INVITE(ANM)				
			→	ACK				
		Conver	sation					
	REL →		→	BYE(REL)				
	RLC +		+	200 OK BYE(RLC)				

TP301036	SIP reference: RFC 3261 [4]			-	SUP reference:
				Q.191	2.5 [1], clause 7.1.2
TSS reference	ISUP-SIP/Basic call/ Sending of the INV	ITE m	essage		
SIP selection	PICS 1/9				
criteria					
ISUP selection	NOT PICS 1/8				
criteria					
Test purpose SIP parameter values	Ensure that the SUT is mapping the Call Called Party Number parameter, Nature of the IAM and the followed SAM: to the addr-spec component of the Tothe format of the Tothe header field is the forward address information is defined Request-URI. INVITE: To:	of ad Γο hea +CC+	Idress = ader field -NDC+SN	"Natio d; l";	onal (significant) number"
ISUP parameter values					
Comments	ISUP/BICC	SU	IT		SIP-I
	IAM →				
	SAM →				
	SAM →			→	INVITE(IAM)
	ACM ←			+	180 Ringing(ACM)
	ANM ←			+	200 OK INVITE(ANM)
				→	ACK
	Co	onvers	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 3	261 [4]	ISUP reference: Q.1912.5 [1], clause 7.2			
TSS reference	ISUP-SIP/Basic call/Receipt o	f SAM after INV				
SIP selection	PICS 3/1	- Craw and nev	112 1140 20011 0	51R		
criteria						
ISUP selection						
criteria						
Test purpose	Ensure if the SUT is supportin SAMs received after the SUT					
SIP parameter values						
ISUP parameter values	SAM; subsequent number (F	PIXIT)				
Comments	ISUP/BICC	SU	JT	SIP-I		
	IAM	→	→	INVITE(IAM)		
	SAM	→				
	ACM	-	+	180 Ringing(ACM)		
	ANM	-	+	200 OK INVITE(ANM)		
			→	ACK		
		Conver	sation			
	REL	→	→	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 after	invite has b	een sent				
SIP selection	PICS 3/2						
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	ICLID/DICC	CLIT		ICID I			
Comments	ISUP/BICC →	SUT		SIP-I			
	-		→	INVITE 1 (IAM)			
	SAM →		→	INVITE 2 (IAM)			
			-	484 Address Incomplete (1)			
			→	ACK			
	SAM →		→	INVITE 3 (IAM)			
			+	484 Address Incomplete (2)			
			→	ACK			
	ACM ←		+	180 Ringing (3) (ACM)			
	ANM ←		+	200 OK INVITE (3) (ANM)			
			→	ACK			
		Conversation	1				
	REL →		→	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 SAM after invite has been sent									
SIP selection	PICS 3/2 AND NOT PICS 4/15									
criteria										
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	→								
	SAM	→								
	COT	→	→	INVITE1(IAM)						
	SAM	→	→	INVITE2(IAM)						
			+	484 Address Incomplete (1)						
			→	ACK						
	ACM	+	+	180 Ringing (2) (ACM)						
	ANM	-	+	200 OK INVITE (2) (ANM)						
			→	ACK						
		Conv	ersation							
	REL	→	→	BYE(REL)						
	RLC	+	+	200 OK BYE(RLC)						

TP302004	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 NOT PICS 4/15									
criteria										
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 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										
Comments	ISUP/BICC		SUT	SIP-I						
	IAM	→								
	SAM	→								
	COT	→	→	INVITE 1 (IAM)						
	SAM	→	→	INVITE 2 (IAM)						
			+	484 Address Incomplete (1)						
			→	ACK						
	ACM	(+	180 Ringing (2) (ACM)						
		(+	200 OK INVITE(ANM)						
			→	ACK						
		Conv	ersation							
	REL	→	→	BYE(REL)						
		(+	200 OK BYE(RLC)						

TP302005	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 7.2.1								
TSS reference	ISUP-SIP/Basic call/Receipt of SA	M after invit							
SIP selection criteria	PICS 3/2 AND NOT PICS 4/15								
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" 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		SUT	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	SAM after inv	ite has been s	sent						
SIP selection criteria	PICS 3/2 AND NOT PICS 4/15	PICS 3/2 AND NOT PICS 4/15								
ISUP selection criteria	PICS 1/5 AND PICS 4/2									
Test purpose SIP parameter values	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.									
ISUP parameter values										
Comments	ISUP/BICC		SUT	SIP-I						
	IAM	→								
	SAM	SAM →								
		T8	expires							
	REL	+								
	RLC	→								

TP302007	SIP refer	ence	: RFC 3261	[4]		ISUP reference: Q.1912.5 [1], clause 7.2.1			
TSS reference	ISI ID-SID/Basic	SUP-SIP/Basic call/Receipt of SAM after invite has been sent							
SIP selection	DICS 3/2 AND D	PICS 3/2 AND PICS 4/5 AND PICS 4/15							
criteria	100 0/2/11/01/100 1/0/11/01 1/10								
ISUP selection	PICS 1/5 AND P	PICS 1/5 AND PICS 4/2							
criteria	1.00 1,07 11.01	100 1/0 / HB 1 100 4/2							
Test purpose	Check indicator in check required Sends an INVITE Indicators param preconditions are On receipt of a Sends and the Requirection of the Invite in column of the Invite in question check resource in question in qu	the that the SUT in Idle state, on receipt of an IAM message containing the Continuity of kindicator in the Nature of Connection Indicators parameter which is set "continuity of kindicator in the Nature of Connection Indicators parameter which is set "continuity of kindicator in the Nature of Connection Indicators parameter which is set "continuity of kindicator in the Side of the Continuity message with the Continuity ators parameter set to "continuity check successful" and after the requested conditions are met in the SIP network. The continuity of the Continuity message with the Continuity ators parameter set to "continuity check successful" and after the requested conditions are met in the SIP network. The continuity message with the Continuity message with the Continuity ators parameter set to "continuity described" and after the requested on the Continuity message with the Continuity ators parameter set in the Continuity message with the Continuity ators parameter with the continuity message with the Continuity ators parameter in the Continuity message with the Continuity ators parameter with the continuity message with the Continuity ators parameter set in the Continuity message with the Continuity ators parameter with the Continuity message with the Continuity ators parameter with the Continuity message with the Continuity ators parameter set in the Continuity message with the Continuity ators parameter with the Continuity message with the Continuity ators parameter with the Continuity ators parameter set of continuity message with the Continuity ators parameter with the Continuity ators parameter with the Continuity ators parameter with the Continuity and INVITE set of the Continuity and after the continuity ators parameter with the Continuity and INVITE set of the Continuity and after the continuity ators parameter with the Continuity and after the continuity and INVITE set of the Continuity and after							
SIP parameter values	INVITE2: Reque	st UR	contains c	ligits	from the	e IAM and digits from SAM x and SAM y. The			
ISUP parameter	IAM is also conta	inea							
values									
Comments									
	ISUP/BICC		SUT		SIP-I				
	IAM	→		→	INVITE	1(IAM)			
	SAM x	→							
				←		ssion Progress without encapsulated ACM			
	COT	→		→	UPDA				
				←		(UPDATE			
	SAM y	→		→		2 (IAM and digits from SAM X + SAM Y)			
				+		ldress Incomplete (1)			
				→	ACK				
	ACM	+		←		nging2 (ACM)			
	ANM	+		←		(INVITE(ANM)			
				→	ACK				
			onversatio						
	REL	→		→	BYE(R				
	RLC	←	<u> </u>	←	200 Ok	(BYE(RLC)			

TP302008	SIP refe	ence	e: RFC 3261 [4]			ISUP reference:			
TCC reference	ICLID CID/Dasia	II / C	and at CAM	-4		Q.1912.5 [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 PICS 4/5 AND PICS 4/15								
ISUP selection	PICS 1/5 AND P	ICS 4	1/2						
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 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 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								
SIP parameter	original IAM. INVITE2: Request URI contains digits from the IAM and digits from SAM x and SAM y. The								
values	IAM is also conta			5 11 01		IAM and digits from SAM X and SAM y. The			
ISUP parameter	IAW IS also conte	inicu							
values									
Comments	INVITE. The pre- exchange) the co the confirmation message are sat	condi onfirm of a p	tion signalling is nation of a precorrecondition bei I.	s cor ondit	nclude tion be net is	nalling procedure using the SDP Offer in the ed upon sending (within an SDP offer-answer eing met. The SDP Offer or Answer carrying sent when the conditions to send an INVITE			
	ISUP/BICC		SUT		SIP				
	IAM	→		→	INV	ITE1(IAM)			
	SAM x	→			<u> </u>				
		<u> </u>		Ť		Session Progress without encapsulated ACM			
	СОТ	→		→		DATE			
		<u> </u>		+		OK UPDATE			
	SAM	→		→		TE2 (IAM and digits from SAM X + SAM Y)			
				+		Address Incomplete (1)			
		→ ACK							
	ACM	+		+		Ringing2 (ACM)			
	ANM	+		←		OK INVITE(ANM)			
				→	AC				
			Conversation						
	REL	→		→		(REL)			
	RLC	+		+	200	OK BYE(RLC)			

TP302009	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 NOT PICS 4/15									
criteria										
ISUP selection	PICS 1/4 AND NOT PICS 4/2									
criteria										
Test purpose	expected".	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:								
						ter set to "continuity" shall be				
	Bearer Set-up indication - for Type is "notification not req On receipt of a SAM from the Bloom to the Bloom in the B	uired" v	was recei	ved.	up cas	se where the incoming Connect				
	1) Stop timer TOIW3 (if it is run	ning);			a follo	wing procedures:				
	 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 									
	in question;	d) all other contents of the new INVITE are interworked from the parameters of the								
SIP parameter	[1]									
values										
ISUP parameter values										
Comments	ISUP/BICC		SL	IT		SIP-I				
Comments	IAM	→		<i>/</i> 1		OII -I				
	SAM x	→								
	COT	→			→	INVITE(IAM)				
	SAM y	→			→	INVITE(IAM)				
	ACM	+			+	180 Ringing(ACM)				
	ANM	+			+	200 OK INVITE(ANM)				
					→	ACK				
			Conver	sation						
	REL	→			→	BYE(REL)				
	RLC	+			←	200 OK BYE(RLC)				

TP302010	SIP reference: RFC 3261 [4]			- I	SUP reference:						
			(Q.191	2.5 [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:										
	 Continuity message, with the Con received; 	tinuity In	dicators pa	rame	ter set to " continuity " shall be						
	 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. 										
	On receipt of a SAM from the BICC the	e SUT sh	ıall:								
	1) Stop timer TOIW3 (if it is running);										
	2) TOIW2 shall be restarted and the Sa) the Request-URI and the To h										
	received so far for this call:	eader lie	id of the ne	W IIN	VITE shall contain all digits						
	b) a new INVITE with the same C	Call-ID ar	d From he	ader ((including tag) as the previous						
	INVITE is sent;				amoral agy as the promote						
	c) the new INVITE shall contain a										
	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;	N //TE	- ! t l .	6							
	 d) all other contents of the new INVITE are interworked from the parameters of the original IAM. 										
SIP parameter											
values											
ISUP parameter											
values	LOUID (DIO				loip						
Comments	ISUP/BICC	<u> </u>	UT		SIP-I						
	IAM →	 									
	SAM x → COT →	 			INIVITE (IANA)						
	SAM y	\vdash		<u>→</u>	INVITE(IAM) INVITE(IAM)						
	ACM ←	+		7	180 Ringing(ACM)						
	ANM	+		`	200 OK INVITE(ANM)						
	→ ACK										
		Conve	ersation								
	REL →			→	BYE(REL)						
	RLC +			+	200 OK BYE(RLC)						

TP302011	SIP reference: RFC 326		ISUP reference:							
					912.5 [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									
	Engure that the CLIT is Idle state on receipt of as IAM second is directing ICCT (- 1-									
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 delay	ys until	all the foll	owing condi	itions are satisfied:					
	 Continuity message, with the received; 	ne Conti	nuity Indic	ators paran	meter set to " continuity " shall be					
					arer set-up case was received.					
	On receipt of a SAM from the BI 1) Stop timer TOIW3 (if it is run		SUT snai	I:						
	2) TOIW2 shall be restarted an		UT shall ir	nvoke the fo	ollowing procedures:					
					INVITE shall contain all digits					
	received so far for this c									
	•	ame Ca	all-ID and	From heade	er (including tag) as the previous					
	INVITE is sent;	ntoin o	now CDD	offer The	2 IM/I I may re use any recourses					
					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	г Г	SIP-I					
	IAM	→								
	SAM x	→								
	COT	→		→	INVITE(IAM)					
	SAM y	→		→	` '					
	ACM	+		+						
	ANM	+		+	200 OK INVITE(ANM)					
	→ ACK									
	Conversation									
	REL	→		→	. ,					
	RLC	+		+	200 OK BYE(RLC)					

TP302012	SIP reference: RFC 326	61 [4]	ISUP reference:								
					2.5 [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	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 dela										
	 Continuity message, with th received; 	ne Contin	uity Indicat	ors parame	ter set to "continuity" shall be						
	 BNC set-up success indicated on receipt of a SAM from the Bl 			bearer cont	trol tunnelling was received.						
	1) Stop timer TOIW3 (if it is run		. C i Oilalli								
	2) TOIW2 shall be restarted an		T shall invo	oke the follo	wing procedures:						
			der field of	the new IN'	VITE shall contain all digits						
	received so far for this c										
		ame Cal	I-ID and Fr	om header ((including tag) as the previous						
	INVITE is sent;		000 (, TI OI	NA/L I						
					WU 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	Singman in time										
values											
ISUP parameter											
values					T						
Comments	ISUP/BICC		SUT		SIP-I						
	IAM	→									
	SAM x	→									
	COT	→		→	INVITE(IAM)						
	SAM y	→		→	INVITE(IAM)						
	ACM	+		-	180 Ringing(ACM)						
	ANM	+		-	200 OK INVITE(ANM)						
				→	ACK						
	DEL		Conversati		DVE(DEL)						
	REL	→		→	BYE(REL)						
	RLC	←		←	200 OK BYE(RLC)						

TP302013	SIP ref	erenc	e: 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	expected". Sends the INVI Continuity received; Bearer Set Type is "neare indicating to the continuity on receipt of a 1) Stop timer 2) TOIW2 sha a) the Receive b) a new INVITE c) the new that has resource in questions.	Sends the INVITE message. The events: Continuity message, with the Continuity Indicators parameter set to "continuity" was						
	d) all other contents of the new INVITE are interworked from the parameters of the							
SIP parameter	original IAM. INVITE2: Request URI contains digits from the IAM and digits from SAM x and SAM y. The							
values	INVITE2: Request URI contains digits from the IAM and digits from SAM x and SAM y. The IAM is also contained							
ISUP parameter values	IN IN IS GIOC CONTRAINED							
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 a INVITE message are satisfied.							
	ISUP/BICC		SUT		SIP-I			
	IAM	→		→	INVITE1(IAM)			
	SAM x	→			192 Consign Drogross without an appaulated ACM			
	COT	→		<u>+</u>				
	CO1	7			UPDATE 200 OK UPDATE			
	CAM			<u>+</u>				
	SAM y	→		→	internal and angles ment of any transfer to			
				-				
	ACM	-		→				
	ACM	-		+	8 8 7			
	ANM	+		<u>+</u>				
		-	Conversation	7	ACK			
	DEI		Conversation	_	DVE(DEL)			
	REL	→		<u>→</u>				
	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 c	all/R	eceipt of SAM	after	invite				
SIP selection	PICS 3/2 AND PI								
criteria									
ISUP selection	PICS 1/4 AND PI	CS 4	-/2						
criteria									
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be								
	expected". Sends the INVITE message. The events:								
	 Continuity message, with the Continuity Indicators parameter set to "continuity" was received: 								
	or without be	arer	control tunnellii	ng) v	vhere	ed" - for the forward bearer set-up cases (with, the incoming Connect Type is "notification"			
	are indicating the	succ		ion c	of bea	nrer set-up.			
	On receipt of a SA 1) Stop timer TO	IW3	(if it is running)	,					
	a) the Reque	est-L				Il invoke the following procedures: eld of the new INVITE shall contain all digits			
			,	Call	ID or	nd From header (including tag) as the previous			
	INVITE is			Call-	·ID ai	id From header (including tag) as the previous			
				a ne	w SI	OP offer. The O-IWU may re-use any resources			
						s call. This re-use of existing reserved			
						precondition attributes for the SDP parameters			
	in questio					F			
	d) all other contents of the new INVITE are interworked from the parameters of the original IAM.								
SIP parameter	INVITE2: Request URI contains digits from the IAM and digits from SAM x and SAM y. The								
values	IAM is also contained								
ISUP parameter									
values									
Comments						nalling procedure using the SDP Offer in the			
						ed upon sending (within an SDP offer-answer			
						eing met. The SDP Offer or Answer carrying			
				ng n	net is	sent when the conditions to send a INVITE			
	message are satis	sfied							
	ISUP/BICC		SUT		SIP				
	IAM	<u> </u>		→	INV	ITE1(IAM)			
	SAM	→			400	0 : 0 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :			
	007			<u> </u>		Session Progress without encapsulated ACM			
	COT	<u>→</u>		<u>→</u>		DATE			
	0.4.14			<u>+</u>		OK UPDATE			
	SAM	→		<u>→</u>		ITE2 (IAM with digits from SAM X + SAM Y)			
				-		Address Incomplete (1)			
	ACM			<u>→</u>	ACŁ				
	ACM	+		<u>+</u>		Ringing2(ACM) OK INVITE(ANM)			
	ANM			<u>~</u>					
			Conversation	7	ACł	\			
	REL	_	Conversation		DVr	C/DEL\			
	RLC	<u>→</u>		<u>→</u>		E(REL) OK BYE(RLC)			
	NLO	~	1	~	∠00	ON DIE(NEO)			

TP302015	SIP refer	ence	: RFC 3261 [4]		ISUP reference:					
TSS reference	ISLID SID/Basic o	all/D	occipt of SAM	oftor	Q.1912.5 [1], clause 7.2.1 invite has been sent					
SIP selection	PICS 3/2 AND PI				IIIvite has been sent					
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 the INVITE message. The events: Continuity message, with the Continuity Indicators parameter set to "continuity" was received: Bearer Set-up Connect indication - for the backward bearer set-up case was received. are indicating the successful completion of bearer set-up. 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 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 									
OID	original IAM.									
SIP parameter	INVITE2: Request URI contains digits from the IAM and digits from SAM x and SAM y. The									
values	IAM is also contained									
ISUP parameter values										
Comments	The O BAUL about dimitiate the process distance are sufficient as a second state of the ODD C''.									
- 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 a INVITE message are satisfied									
	ISUP/BICC	_	SUT	_	SIP-I					
	IAM	→	 	→	INVITE1(IAM)					
	SAM	→			102 Consign Draggeon with aut an agrant the	4 V C F 4				
	COT	_	 	<u>+</u>	183 Session Progress without encapsulated	J ACIVI				
	СОТ	→		<u>→</u>	UPDATE					
	CAM	_	 	-	200 OK UPDATE	M \/\				
	SAM	→	 	<u>→</u>	INVITE2 (IAM with digits from SAM X + SAI	VI Y)				
			 	-	484 Address Incomplete (1)					
	ACM		 	<u>→</u>	ACK					
	ACM ANM	+		-	180 Ringing2(ACM) 200 OK INVITE(ANM)					
	AINIVI	7								
			Conversation	→	ACK					
	DEL	_	Conversation	_	DVE(DEL)					
	REL	→	 	<u>→</u>	BYE(REL)					
	KLC	RLC								

TP302016	SIP refer	ence	: RFC 3261 [4]			ISUP reference:	
TSS reference	ICLID CID/Posio o	Q.1912.5 [1], clause 7.2.1 call/Receipt of SAM after invite has been sent					
SIP selection					ivite has been	rsent	
criteria	PICS 3/2 AND PICS 4/5 AND PICS 4/15						
ISUP selection	PICS 1/4 AND PI	CS 4	/2				
criteria							
Test purpose	 Ensure that the SUT in Idle state, on receipt of an IAM message containing indicating "COT to be expected". Sends the INVITE message. The events: Continuity message, with the Continuity Indicators parameter set to "continuity" was received; BNC set-up success indication for cases using bearer control tunnelling was received. are indicating the successful completion of bearer set-up, On receipt of a SAM from the BICC/ISUP the SUT shall: Stop timer TOIW3 (if it is running); 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 IA					nou nom mo parametero er une	
SIP parameter			I contains digits	fror	the IAM and o	digits from SAM x and SAM y. The	
values	IAM is also conta	ined					
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 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 a INVITE message are satisfied						
	ISUP/BICC		SUT		SIP-I		
	IAM	<u>→</u>		→	NVITE1(IAM)		
	SAM	→			100 0	Over average suith assist and a second attack A CAA	
	COT			<u> </u>		Progress without encapsulated ACM	
	СОТ	→		<u>→</u>	JPDATE	ATE	
	CANA			/	200 OK UPDA		
	SAM	→		<u>→</u>		with digits from SAM X + SAM Y)	
				<u> </u>		ncomplete (1)	
	ACM			}	ACK	A CR 4\	
	ACM	+		+	80 Ringing2(ACIVI)	
	ANM	7	 	<u>←</u>	200 OK INVIT	E(AINIVI)	
			Conversation	7	ACK		
	DEL	_	Conversation	_	DVE/DEL\		
	REL	→	 	<u>→</u>	BYE(REL)	DI C)	
	RLC	←		+	200 OK BYE(F	KLU)	

TP302017	SIP reference: RFC 3261	[4]	ISUP reference: Q.1912.5 [1], clause 7.2.1				
TSS reference	ISUP-SIP/Basic call/Receipt of SA	SUP-SIP/Basic call/Receipt of SAM after invite has been sent					
SIP selection	PICS 3/2						
criteria							
ISUP selection	PICS 1/4						
criteria							
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			
	7 1171	→	→	INVITE(IAM)			
	SAM	→	→	INVITE(IAM)			
		T _{oiw2}	expired				
	SAM	>					
	ACM	-	+	180 Ringing(ACM)			
	ANM	[+	200 OK INVITE(ANM)			
			→	ACK			
			ersation				
	REL ÷	>	→	BYE(REL)			
	RLC	-	+	200 OK BYE(RLC)			

TP302018	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 criteria	PICS 3/1						
ISUP selection criteria	PICS 3/8						
Test purpose	 The SUT in Idle state, on receipt of an IAM message. On receipt of a SAM from the BICC/ISUP the SUT shall: sends a INVITE message if the minimum number of digits for routing the call has been received in the IAM and the SAM; 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. 						
SIP parameter values							
ISUP parameter values							
Comments	ISUP/BICC	SUT SIP-I → INVITE(IAM) v2 expired					
	SAM →	VZ -					
	ACM ← ANM ←						
	Con	nversation BYE(REL)					
	RLC •	€ 200 OK BYE(RLC)					

5.2.2.3 Sending of the ACM message

TP303001	SIP reference: RFC 3261 [4	1]	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 message							
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								
ISUP parameter	IAM; Called party number: comple	to number						
values	ACM, CPS indicator no indication (
values	Called party's category indicator:		ion(00) or ordina	ry subscriber (01) or navnhone				
	(10)	no maicat	ion(oo) or ordina	ry subscriber (01) or paypriorie				
	interworking indicator: INT_IND_\	AL (PIXIT	7)					
	ISUP indicator: ISUP_IND_ID (PIX		,					
	ISDN access indicator ISDN_ACC		(PIXIT)					
Comments	ISUP/BICC	5	SÚT	SIP-I				
	IAM →		→	INVITE(IAM)				
	ACM(no indication)							
	CPG(Alerting) ←		+	180 Ringing(ACM)				
	ANM ←		+	200 OK INVITE(ANM)				
			→	ACK				
		Conv	ersation					
	REL →		→	BYE(REL)				
	RLC +		+	200 OK BYE(RLC)				

TP303002	SIP reference: RFC 3261		Q.70	ISUP reference: 1912.5 [1], clause 7.1, 64 [i.12], clause 2.1.4.8					
TSS reference	ISUP-SIP /Basic call/ Sending of the ACM message								
SIP selection	PICS 1/3								
criteria									
ISUP selection criteria	PICS 4/9	PICS 4/9							
Test purpose SIP parameter	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".								
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					
		→	7	INVITE(IAM)					
		(
	CPG(Alerting)	(•	180 Ringing(ACM)					
	ANM	(•	=======================================					
			7	ACK					
		Со	nversation						
	REL	→	3	BYE(REL)					
	RLC	(•	200 OK BYE(RLC)					

TP303003	SIP reference: RFC 3261		Q.19 Q.764	SUP reference: 12.5 [1], clause 7.1, [i.12], clause 2.1.4.8		
TSS reference	ISUP-SIP /Basic call/Sending of th	e 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 values	IAM; Called party number: complete number 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		SUT	SIP-I		
	IAM =	>	→	INVITE(IAM)		
	ACM(no indication)	-		` ′		
	CPG(Alerting)	-	←	180 Ringing(ACM)		
	ANM	-	←	200 OK INVITE(ANM)		
			→	ACK		
		Conv	ersation			
	REL -	>	→	BYE(REL)		
	RLC	-	+	200 OK BYE(RLC)		

TP303004	SIP reference: RFC 3261	[4]		ISUP reference:					
				clauses 7.1 1) d), 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	NOT PICS 4/9								
criteria									
Test purpose	Ensure that the SUT in Idle state, called party number where the etimer T _{OIW1} after the receipt of the	end of addres	ss signalling is d						
	 sends the ACM message with party's category indicator s "payphone (10)", the interwo 								
SIP parameter									
values									
ISUP parameter	IAM; Called party number: comp		-						
values	ACM, CPS indicator no indication								
	Called party's category indicate	r: no indicat	tion(00) or ordina	ary subscriber (01) or payphone					
	(10)								
	interworking indicator: INT_IND		Γ)						
	ISUP indicator: ISUP_IND_ID (P		(D1) (IT)						
	ISDN access indicator ISDN_AC			loip i					
Comments	ISUP/BICC		SUT	SIP-I					
	IAM	<u>→</u>							
		T _{OIW1} expiry							
	, territine maneauterry	←	→	INVITE(IAM)					
	5. 5(: iis:iii:g)	←	+	180 Ringing(ACM)					
	ANM	←	+	200 OK INVITE(ANM)					
			→	ACK					
			ersation						
	: :==	→	→	BYE(REL)					
	RLC	←	+	200 OK BYE(RLC)					

TP303005	SIP reference: RFC 3261	[4]		ISUP reference:				
				[1], clauses 7.1 and 7.3.1				
TSS reference		ISUP-SIP /Basic call/Sending of the ACM message						
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 _{OIW2} ; • 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							
SIP parameter	"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".							
values								
ISUP parameter	IAM; Called party number: comp		•					
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 -	>						
	SAM -	>						
	SAM -	>	→	INVITE(IAM)				
		T _{OIW}	₂ expiry					
	ACM(no indication)	F						
	CPG(Alerting) ← 180 Ringing(ACM)							
		-	+					
	→ ACK							
		Conv	ersation					
		>	→	(/				
	RLC •	E	+	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 the ACM	ISUP-SIP /Basic call/Sending of the ACM message						
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, on 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 ISDN access indicator set to the value in the encapsulated ACM.							
SIP parameter values		,						
ISUP parameter	IAM; Called party number: complete nu	IAM. Called newty nymehow complete nymehow						
values	ACM, Backward call indicator is set to the		canculated ACM					
Comments	ISUP/BICC	SUT	SIP-I					
Comments	IAM →	001	→ INVITE(IAM)					
	ACM ←		€ 180 Ringing(ACM)					
	ANM							
	→ ACK							
		Conversation	- 1010					
	REL →	Conversation	→ BYE(REL)					
	RLC ←		€ 200 OK BYE(RLC)					

TP303007	SIP reference: RFC 3261	[4]		15	SUP reference:		
		1.1	Q.1912		clauses 7.1 1 a) and 7.3.2		
TSS reference	ISUP-SIP /Basic call/Sending of the ACM message						
SIP selection	PICS 3/1						
criteria							
ISUP selection	NOT PICS 4/9						
criteria							
Test purpose	Ensure that the SUT in Idle state,						
	called party number on receipt o	f a 183 Ses	sion Progres	ss with	n encapsulated ACM:		
	 sends the ACM message; 						
	 the encapsulated ACM messa 	age is sent	unchanged b	oackw	ard.		
SIP parameter							
values							
ISUP parameter	IAM; Called party number: comp	lete numbe	r				
values							
Comments	ISUP/BICC	;	SUT		SIP-I		
	IAM -	→		→	INVITE(IAM)		
	ACM(no indication)	←		+	183 Session Progress(ACM)		
	CPG(Alerting)	←		4	180 Ringing(CPG)		
	ANM	←		+	200 OK INVITE(ANM)		
				^	ACK		
		Conv	ersation/				
	REL -	→		^	BYE(REL)		
	RLC •	(+	200 OK BYE(RLC)		

TP303011	SIP reference	: RFC 3261	4]	ISUP reference:				
<i>(</i>	10115 015 /5 : 11/0	S 12 641	15 13 41 77 5	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 criteria	PICS 1/3	PICS 1/3						
ISUP selection criteria	PICS 4/2 AND NOT P	PICS 4/2 AND NOT 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 the expiration timer T _{OIW1} 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>	30 maistre 30 to 10 pt 1_10 0 _11 v 1 _ v 1 _ v				
ISUP parameter	IAM; Called party nui	mber: compl	ete num	ber				
values	ACM,	р.						
	CPS indicator no indi	ication (00)						
			: no indi	cation(00) or ordinary subscriber (01) or payphone				
	(10)interworking indi	icator: INT I	ND VAL	(PIXIT)				
	ISUP indicator: ISUP							
	ISDN access indicate			/AL (PIXIT)				
Comments	ISUP/BICC	SUT		SIP-I				
	IAM	→	→	INVITE(IAM)				
			+	183 Session Progress without encapsulated ACM				
	COT	→		UPDATE ,				
			+	200 OK UPDATE				
		T _{OIW1} ex						
	ACM(no indication)	←						
	CPG(Alerting, BCi)	+	+	180 Ringing(ACM)				
	ANM	+		200 OK INVITE(ANM)				
	→ ACK							
		Conversa						
	REL	→		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/S						
SIP selection criteria	PICS 1/3 AND PICS 3/2 AND PICS 4/5 AND PICS 4/4 AND PICS 4/15						
ISUP selection criteria	PICS 4/2 AND NOT P	PICS 4/2 AND NOT PICS 4/9					
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) and the continuity check is performed (ISUP) or COT is expected (BICC). After the expiry of T _{oiw2} : • 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	ACM: Backward call in						
values	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 180 Ringing						
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
				+	183 Session Progress without encapsulated ACM		
	COT	→		→	UPDATE		
				+	200 OK UPDATE		
		T _C	olW2 expi	ry			
	ACM(no indication)	+					
	CPG(Alerting, BCi)	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
		Co	nversatio	n			
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP303013	SIP refer	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 N	OT PI	CS 4/9				
criteria							
Test purpose					t of an IAM message containing the complete		
					is performed (ISUP) or COT is expected (BICC)		
	indication receipt			ssage	9:		
			nessage with:				
					value in the encapsulated ACM;		
			ed party's categ	jory	indicator set to the value in the encapsulated		
	AC	,					
			•		et to the value in the encapsulated ACM;		
					value in the encapsulated ACM;		
	– the	ISDN	l access indica	tor s	et to the value in the encapsulated ACM.		
SIP parameter values							
ISUP parameter	IAM; Called part	v nur	nber: complete	numl	per		
values					alue in the encapsulated ACM		
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	→		→	NVITE(IAM)		
				←	183 Session Progress without encapsulated ACM		
	COT	→			JPDATE		
				← 2	200 OK UPDATE		
	ACM	←		(180 Ringing(ACM)		
	ANM	←			200 OK INVITE(ANM)		
				→	ACK		
			Conversation				
	REL	→		→	BYE(REL)		
	RLC	+		← :	200 OK BYE(RLC)		

TP303014	SIP reference: RFC 3261	[4]		ISUP reference:					
				1], 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 NO	PICS 1/3 AND PICS 3/2 AND NOT PICS 4/15							
ISUP selection	PICS 3/8 AND PICS 4/2 AND NO	T 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 T _{OIW2} 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 _{Oiw2} :								
	sends the ACM message with party's category indicator set "payphone (10)", the interwork	 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	ACM: Backward call indicator								
values	CPS indicator: no indication Called party's category incompayphone (10) interworking indicator: INT ISUP indicator: ISUP_IND ISDN access indicator: ISI CPG: Event indicator = ALRTING	licàtor: no ir _IND_VAL (_ID (PIXIT) DN_ACC_IN	PIXIT) ID_VAL (PIXIT)						
Comments	180 Ringing ISUP/BICC		SUT	SIP-I					
Comments		→		On -1					
		→	→	INVITE(IAM)					
			_{V2} expiry	INVITE (IAW)					
	ACM(no indication)	(
		(+	180 Ringing(ACM)					
	ANM	(+						
			→						
		Con	versation						
	REL	→	→	BYE(REL)					
	RLC	←	+	200 OK BYE(RLC)					

TP303015	SIP reference: RFC 3261 [4	4]	Q.1912.5 [ISUP reference: 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, or							
	called party number, the continuity		performed (ISU	P) or COT is expected (BICC)				
	indication receipt of a 180 Ringing r							
	 Sends the ACM message with: 							
	 the CPS indicator se 							
	 the Called party's ca 	tegory inc	licator set to th	ne value in the encapsulated				
	ACM;							
	 the interworking indi 	i cator set t	to the value in t	the encapsulated ACM;				
	 the ISUP indicator set 	et to the va	lue in the enca	psulated ACM;				
	 the ISDN access ind 	icator set	to the value in t	the encapsulated ACM.				
SIP parameter								
values								
ISUP parameter	IAM; Called party number: comple	te number						
values	ACM, Backward call indicator is set	to the valu	ie in the encap	sulated ACM				
Comments	ISUP/BICC	5	SUT	SIP-I				
	IAM →							
	COT →		→	\ /				
	ACM ←		+	180 Ringing(ACM)				
	ANM ←		(200 OK INVITE(ANM)				
			→	ACK				
		Conv	ersation					
	REL →		-	BYE(REL)				
	RLC +		+	200 OK BYE(RLC)				

TP303016	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clauses 7.3.2, Table 33					
TSS reference	ISUP-SIP /Basic call/Sending	ISUP-SIP /Basic call/Sending of the ACM message							
SIP selection criteria									
ISUP selection criteria									
Test purpose		Ensure that after the INVITE was sent a received 183 Session Progress without encapsulated ISUP MIME body is not interworked							
SIP parameter									
values									
ISUP parameter									
values									
Comments	ISUP/BICC		SI	JT		SIP-I			
	IAM	→			→	INVITE(IAM)			
					+	183 Session Progress			
	ACM	+			+	180 Ringing(ACM)			
	ANM	+			+	200 OK INVITE(ANM)			
					→	ACK			
			Conve	rsation	•				
	REL	→			→	BYE(REL)			
	RLC	+			+	200 OK BYE(RLC)			

5.2.2.4 Sending of the CPG message

TP304001	SIP reference: RFC 3261 [4]			ISUP reference:		
			Q.	1912.5	[1], clauses 7.1 and 7.3.1	
TSS reference	ISUP-SIP /Basic call/ Send	ding of the CPG r	nessage			
SIP selection	PICS 3/1					
criteria						
ISUP selection	PICS 3/8					
criteria						
Test purpose					party status "no indication" on	
	receipt of a 180 Ringing w					
	 sends the CPG messa 	age with the eve r	nt indicator	r set to ".	Alerting".	
SIP parameter						
values						
ISUP parameter	ACM: BCi called party stat					
values	CPG: Event Indicator = AL	ERTING, BCi as	received fr	om the e		
Comments	ISUP/BICC		SUT		SIP-I	
	IAM	→				
	SAM	→				
	SAM	→		→	INVITE(IAM)	
		T _C	NW2 expiry			
	ACM(no indication)	+				
	CPG(Alerting BCi)	+		+	180 Ringing(ACM)	
	ANM ← 200 OK INVITE(ANM)					
				→	ACK	
			nversation			
	REL	→		→	BYE(REL)	
	RLC	-		+	200 OK BYE(RLC)	

TP304002	SIP reference: RFC	SIP reference: RFC 3261 [4] U.1912.5 [
TSS reference	ISUP-SIP /Basic call/ Sendin	g of the CP	G message					
SIP selection criteria								
ISUP selection criteria								
Test purpose	receipt of a 183 Session prog	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 event indicator set to "Alerting".						
SIP parameter values					•			
ISUP parameter values								
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM(no indication)	+		+	183 Session Progress(ACM)			
	CPG(Alerting)	+		+	180 Ringing(CPG)			
	ANM ← 200 OK INVITE(ANM)							
				→	ACK			
			Conversation	•				
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

5.2.2.5 Sending of the ANM message

TP305001	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause 7.5					
TSS reference	ISUP-SIP/Basic call/ Sending of the Answer Message (ANM)/							
SIP selection criteria								
ISUP selection criteria								
Test purpose	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;			,				
ISUP parameter values	ANM;							
Comments	ISUP/BICC	SUT		SIP-I				
	IAM →		→	INVITE(IAM)				
	ACM ←		+	180 Ringing(ACM)				
	ANM ←		+	200 OK INVITE(ANM)				
	→ ACK							
		Conversation						
	REL →		→	BYE(REL)				
	RLC ←	•	+	200 OK BYE(RLC)				

5.2.2.6 Sending of the CON message

TP306001	SIP reference: RFC 3261	[4]	Q.19		ISUP reference: [1], clauses 7.5 and 7.5.1				
TSS reference:	ISUP-SIP/Basic call/ Sending of the	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: INISUP indicator: ISUP_IND_ID (PISDN access indicator ISDN_ACCPS indicator: no indication	XIT)	` '						
Comments	ISUP/BICC	SU	T		SIP-I				
	IAM →			→	INVITE(IAM)				
	CON ←			+	200 OK INVITE(CON)				
				→	ACK				
		Conver	sation						
	REL →			→	BYE(REL)				
	RLC +			+	200 OK BYE(RLC)				

5.2.2.7 Receipt of the Release message (REL)

TP307001	SIP reference: RFC 320	61 [4]		ISUP reference: Q.1912.5 [1], clause 7.7.1, 1)					
TSS reference	ISUP-SIP/Basic call/ Receipt of	-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									
ISUP parameter values									
Comments	ISUP/BICC		SUT	SIP-I					
	17 (17)	AM →							
	REL	→							
	RLC	←							

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TP307002	SIP reference: RFC 32	261 [4]		0.10	ISUP reference:			
TSS reference	Q.1912.5 [1], clause 7.7.1 2)							
	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 before 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		SU	Γ	SIP-I			
	IAM	→		→	INVITE(IAM)			
	REL	→						
	RLC	+						
			-	+	200 OK INVITE(CON)			
				→	ACK			
			•	→	BYE(REL)			
				+	200 OK BYE(RLC)			

TP307003	SIP reference: RFC 32	261 [4]		SUP 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 before a 200 OK SIP response message has been received: the SUT shall hold the REL message. A CANCEL is sent when any SIP response was 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; for Profile C (SIP-I), if a BYE message is sent, it shall encapsulate the received REL message. 							
SIP parameter values								
ISUP parameter values								
Comments	ISUP/BICC	SI	JT	SIP-I				
	IAM	→	→	INVITE(IAM)				
			+	100 Trying				
	REL	→						
	RLC	+	→	CANCEL				
			+	200 OK INVITE(CON)				
			→	ACK				
			→	BYE(REL)				
			+	200 OK BYE(RLC)				

TP307004	SIP reference: RFC 3261	[4]	ISUP reference: Q.1912.5 [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 before an early dialogue with the message 100 Trying has been established: • the SUT shall hold the REL message until a 100 Trying response has been received; • the SUT shall send a CANCEL.							
SIP parameter values								
ISUP parameter values								
Comments	ISUP/BICC	SU	Т	SIP-I				
	IAM →		→	INVITE(IAM)				
	REL →							
	RLC ←							
			+	100 Trying				
			→	CANCEL				
			+	200 OK CANCEL				
			+	487 Request terminated				
			→	ACK				

TP307005	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 7.7.1 4)			
TSS reference	ISUP-SIP/Basic call/ Receipt	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/					
SIP selection criteria							
ISUP selection criteria							
Test purpose	sending an INVITE message message has been received:	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		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)						
	→ ACK						
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP307006	SIP reference: RFC 32	61 [4]	_	SUP reference: 2.5 [1], clause 7.7.1 3)			
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 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 answered by 200 OK CANCEL and INVITE request will be terminated by 487.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP/BICC	SL	IT	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 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	VA_4 183 Session Progress(ACM)						

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

TP308001	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 7.7.2				
TSS reference	ISUP-SIP /Basic call/ Sending of	the R	elease mes	sage (REL))/
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message and on receipt of a BYE message in the confirmed dialogue: • sends a REL message constructed from the encapsulated REL in the received BYE.				
SIP parameter	y				
values					
ISUP	REL; Cause value "Normal call of	learin	g"		
parameter values			-		
Comments	ISUP/BICC		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	((180 Ringing(ACM)
	ANM	(+	200 OK INVITE(ANM)
	→ ACK				
		Conv	ersation	*	
	REL	(+	BYE(REL)
	RLC	→		→	200 OK BYE(RLC)

TP308002	SIP reference: RFC 326	61 [4]	=	ISUP reference: 12.5 [1], clause 7.7.6			
TSS reference	ISUP-SIP /Basic call/ Sending o	f the Release i	message (REL)/			
SIP selection criteria							
ISUP selection criteria							
Test purpose	a Failure message (4xx, 5xx, 6x	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		Solida a NEEL mossage solida a membro office poulation (NEEL					
ISUP parameter values	REL; cause value: CV_ISUP	REL; cause value: CV_ISUP					
Comments	ISUP/BICC	ISUP/BICC SUT SIP-I					
	IAM ·	IAM → INVITE(IAM)					
	← 100 Trying						
	REL	-	(SIP_Failure_VA(REL)			
	RLC → 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/ Sendin	g of the R	elease r	nessage (REL)	/	
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 487 Request terminated : • 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		SU	Τ		SIP-I	
	IAM	→			→	INVITE(IAM)	
					+	100 Trying	
	REL	REL → CANCÉL					
	RLC ← 200 OK CANCEL						
					←	487 Request Terminated	
					→	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 (I	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	REL; cause value: CV_ISUP					
Comments	ISUP/BICC	ISUP/BICC SUT SIP-I					
	IAM	IAM → INVITE(IAM)					
	ACM ← SIP MESSAGE_VA(ACM)						
	REL	+			(SIP_Failure_VA(REL)	
	RLC	→			→	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]	ISUP reference: Q.1912.5 [1], clause 7.7.6			
TSS reference	ISUP-SIP /Basic call/ Sending	of the	Release r	nessage (R	REL)	1
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 → INVITE(IAM)					
	ACM ← 180 Ringing					
	REL	+		•	(SIP_Failure_VA(REL)
	RLC	→		•	→	ACK

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.191	2.5 [1], clause 7.7.6	
TSS reference	ISUP-SIP /Basic call/ Sending	of the Rele	ase messag	ge (REL))/	
SIP selection	NOT PICS 4/21					
criteria						
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	REL; cause value: CV_ISUP					
values						
Comments	ISUP/BICC		SUT		SIP-I	
	IAM					
	REL	+		+	SIP_Response_VA	
	RLC	→		→	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			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 Recommendation ITU-T 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/Recommendation ITU-T 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 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 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]		SUP reference:			
			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 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 →	→	INVITE(IAM)			
	RSC →					
	RLC +					
		(SIP_MESSAGE_VA			
		→	CANCEL			
		(200 OK CANCEL			
		(487 Request terminated			
		→	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:			
			Q.1912.5 [1]	, 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 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 RSC message 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 RSC is not encapsulated.					
SIP parameter values	BYE: A REL is encapsulated with cause 31					
ISUP parameter values						
Comments	ISUP/BICC	;	SUT	SIP-I		
	IAM	→	-	INVITE(IAM)		
	RSC	→				
	RLC	+				
			•	200 OK INVITE(CON)		
			7	ACK		
			7	DIE(INEE NOI)		
			•	200 OK BYE(RLC)		

TP309005	SIP reference: RFC 32	61 [4]	ISUP reference:			
	Q.1912.5 [1], 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 inc	lication hardware failure		
	oriented					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT after rece					
	sending a INVITE message wi					
	message on receipt RSC mess	•	•	•		
	 the SUT shall send a BYE 		RSC is not enca	apsulated.		
SIP parameter	BYE: A REL is encapsulated w	ith cause 31				
values						
ISUP parameter						
values						
Comments	ISUP/BICC	5	SUT	SIP-I		
	IAM	→	→	INVITE(IAM)		
	ACM	+	+	180 Ringing(ACM)		
	ANM	+	+	200 OK INVITE(ANM)		
	→ ACK					
	RSC	→	→	BYE(REL#31)		
	RLC	+	+	200 OK BYE(RLC)		

TP309006	SIP reference: RFC 3	261 [4]		ISUP reference:			
			Q.191	Q.1912.5 [1], 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 message (CGB) with the indication hardware failure						
	oriented	ng messag	je (CGB) wii	n the mai	cation nardware 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 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	→		→	INVITE(IAM)		
	ACM	+		+	SIP_MESSAGE_VA(ACM)		
	RSC	→					
	RLC	+					
		1 1			0411051		
				→	CANCEL		
				-	200 OK CANCEL		
				+	487 Request terminated		
				→	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 3261	[4]	ISUP reference: Q.1912.5 [1], clauses 7.7.1, 1), 7.7.4 and 7.7.5		
TSS reference			message (RSC), Circuit group reset messag B) with the indication hardware failure	ge	
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 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 →	SU	JT SIP-I		
	GRS → GRA ←				

TP309008	SIP reference: RFC 3261 [4]	ISUP 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 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 :	SUT	SIP-I			
	IAM →	→	INVITE(IAM)			
	GRS →					
	GRA ←					
		+	SIP_MESSAGE_VA			
		→	CANCEL			
		+	200 OK CANCEL			
		+	487 Request terminated			
		→	ACK			

Table 17

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

TP309009	SIP reference: RFC 326	1 [4]			JP reference:
					ıses 7.7.1 3), 7.7.4 and 7.7.5
TSS reference	ISUP-SIP/Basic call/ Receipt of				
	(GRS) or Circuit group blocking	message	(CGB) with the	e indid	cation hardware failure
OID I	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 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	→		→	INVITE(IAM)
				+	100 Trying
	GRS	→			
	GRA	-		→	CANCEL
				←	200 OK INVITE(CON)
				→	ACK
				+	200 OK CANCEL
				→	BYE(REL#31)
				←	200 OK BYE(RLC)

TP309011	SIP reference: RFC 32	<u>.</u> 61 [4]		ISUP reference:		
	Q.1912.5 [1], 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 blockin	g message (C	CGB) with the in	dication hardware failure		
	oriented					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT after rece	eiving the IAM	with the compl	ete called party number,		
	sending a INVITE message wi					
	•	•	•	se message has been received:		
	 the SUT shall send a BYE 	request The	GRS is not end	apsulated.		
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP/BICC	;	SUT	SIP-I		
	IAM	→	→	INVITE(IAM)		
	ACM	-	+	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)					
	→ ACK					
	GRS	→	→	BYE(REL#31)		
	GRA	+	+	200 OK BYE(RLC)		

TP309012	SIP reference: RFC 3	261 [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/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure					
	oriented	ig mess	age (CC	ob) with the i	naic	ation nardware 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 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		SI	JT		SIP-I
	IAM	→		-	}	INVITE(IAM)
	ACM	+		•	-	SIP_MESSAGE_VA(ACM)
	GRS →					
	GRA ←					
					}	CANCEL
					<u> </u>	200 OK CANCEL
					<u> </u>	487 Request terminated
				-	}	ACK

Table 18

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

TP309013	SIP reference: RFC 3	261 [4]		SUP reference:	
T00 (IOUD OID/Daria and/ Daraint	-(D (- i)		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 message (CGB) with the indication hardware failure				
	1, ,	ng message (C	JGB) with the indi	ication hardware failure	
SIP selection	oriented				
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	BYE1 contains the CSeq of I	NVITE1			
values	BYE2 contains the CSeq of I				
ISUP parameter					
values					
Comments	ISUP/BICC		SUT	SIP-I	
	IAM	→	→	INVITE1(IAM)	
	ACM	+	+	180 Ringing(ACM)	
	ANM	+	+	200 OK INVITE(ANM)	
			→	ACK	
	IAM	→	→	INVITE2(IAM)	
	ACM	-	←	180 Ringing(ACM)	
	ANM	-	+	200 OK INVITE(ANM)	
			→	ACK	
	GRS	→			
	GRA	+			
			→	BYE1(REL#31)	
			+	200 OK BYE(RLC)	
			→	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 IAM CGB	SL → →	T .	SIP-I		
	CGBA	(

TP309015	SIP reference: RFC 3261 [4]		P reference: 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 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 SU		IP-I IVITE(IAM)			
	CGB → CGBA		,			
		← SI	IP_MESSAGE_VA			
			ANCEL			
		€ 48	00 OK CANCEL 87 Request terminated CK			

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]			UP 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	SUT		SIP-I		
	IAM →			INVITE(IAM) 100 Trying		
	CGB →			, ,		
	CGBA ←		→	CANCEL		
				200 OK INVITE(CON)		
				ACK		
				200 OK CANCEL		
				BYE(REL#31)		
			←	200 OK BYE(RLC)		

TP309017	SIP reference: RFC 3	3261 [4]		-	SUP reference: I], 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 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" after 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	→		→	INVITE(IAM)	
	ACM	+		+	180 Ringing(ACM)	
	ANM ← 200 OK INVITE(ANM)					
				→	ACK	
	CGB	→		→	BYE(REL#31)	
	CGBA	←		←	200 OK BYE(RLC)	

TP309018	SIP reference: RFC	3261 [4]			ISUP reference:
				Q.1912.5 [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" 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 CGB is not encapsulated.				
SIP parameter values					
ISUP parameter values	CGB(hardware failure orient	ed)			
Comments	ISUP/BICC		SU	Т	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	SIP_MESSAGE_VA(ACM)
	CGB	→			
	CGBA ←				
				→	CANCEL
				+	200 OK CANCEL
				+	487 Request terminated
				→	ACK

Table 20

	Values for test purpose TP309018
VA	SIP MESSAGE_VA
VA_1	180 Ringing
VA 2	183 Session Progress

TP309019	SIP reference: RFC	3261 [4]		SUP reference:
				lauses 7.7.1, 7.7.4 and 7.7.5
TSS reference), Circuit group reset message
	(GRS) or Circuit group bloc	cking message (C	CGB) with the ind	ication hardware failure
SIP selection	oriented			
criteria				
ISUP selection				
criteria				
Test purpose	each call association on re-	ceipt of a CGB mardware failure o	nessage Circuit G riented" were the	nding an INVITE message for roup Supervision Message Range and Status Parameter ation The CGB is not
SIP parameter	BYE1 contains the CSeq o	f INVITE1		
values	BYE2 contains the CSeq o			
ISUP parameter	CGB(hardware failure orier	nted)		
values				
Comments	ISUP/BICC		SUT	SIP-I
	IAM	→	→	INVITE1(IAM)
	ACM	-	+	180 Ringing(ACM)
	ANM	-	+	200 OK INVITE(ANM)
			→	ACK
			_	
	IAM	→	→	INVITE2(IAM)
	ACM	+	←	180 Ringing(ACM)
	ANM	+	+	200 OK INVITE(ANM)
			→	ACK
	CGB	→		
	CGBA	+		
			→	BYE1(REL#31)
			←	200 OK BYE(RLC)
			→	BYE2(REL#31)
			←	200 OK BYE(RLC)

5.2.2.10 Receipt of Confusion message

TP310001	SIP ref	erence: RFC 3261	[4]		ISUP reference: Q.1912.5 [1], clause A.1.1.3
TSS reference	ISUP-SIP/ISUI	P Messages for spec	cial conside	eratio	on / Confusion message
SIP selection criteria	1001 011 71001	Moodaged for open	nai oonola	<i>n</i> att	on y comución moccago
ISUP selection criteria					
Test purpose	contains an un party number a Ensure that wh Confusion mes of a Confusion Progress is se	known parameter, s and encapsulated IA ten the succeeding it ssage if indicated in message is request int.	ending a IN M as receivence discar the parameted, the CF	VOIT ved. rds a eter N m	the complete called party number and E message with the complete called an unknown parameter and send back a compatibility information and the sending lessage encapsulated in a 183 Session SIP network encapsulated in the 183
SIP parameter values	183 Session P	rogress with encaps	ulated CFN	1	
ISUP parameter values	CFN				
Comments	ISUP				SIP-I
	IAM	→		→	INVITE(IAM with unknown parameter)
	CFN	+		+	183 Session Progress(CFN)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
		Comr	nunication		
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

5.2.2.11 Receipt of "Suspend" or "Resume" message

TP311001	SIP reference: RF		'		ISUP reference: 012.5 [1], clause A.1.1.3
TSS reference	ISUP-SIP/ISUP Messages	for specia	I conside	ration/Receip	ot of Suspend message
SIP selection criteria					
ISUP selection criteria					
Test purpose	in the INFO message:	e with the network: message is	complete s transpo	called party	
SIP parameter				<u>, , , , , , , , , , , , , , , , , , , </u>	
values					
ISUP parameter values					
Comments	ISUP/BICC		SU	JT	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conver	sation	
	SUS	+		+	INFO(SUS)
				→	200 OK INFO
	RES	+		+	INFO(RES)
				→	200 OK INFO
			Conver	sation	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

5.2.2.12 Receipt of a Blocking message

TP312001	SIP reference: RFC 326	1 [4]	Q.191	ISUP reference: 2.5 [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	→		
	BLA	(
	UBL	→		
	UBA	(

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	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 🗦				
	BLA 🗲				
	BLO 🗲				
	BLA →				
	UBL →				
	UBA ←				

TP312003	SIP reference: RFC 3261 [4]			ISUP reference:				
		Q.1912.5 [1], clause A.1.1.3.1						
TSS reference	ISUP-SIP/ISUP Messages for s	special cor	sideration/	Receipt of a Blocking message				
SIP selection								
criteria								
ISUP selection criteria								
Test purpose		ng messa	ge (both m	group blocking message with a CGBA aintenance oriented) with a CGUA.				
SIP parameter values		<u> </u>						
ISUP parameter values								
Comments	ISUP		SUT	SIP-I				
	CGB	→						
	CGBA	+						
	CGU	→						
	CGUA	(

TP312004	SIP reference: RFC	3261 [4]	IS	UP 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	Ensure that the SUT on rece messages, discards the ISU		ch is received er	capsulated within SIP					
SIP parameter									
values									
ISUP parameter									
values									
Comments	ISUP	SU	JT	SIP-I					
			+	INFO(CGB)					

TP312005	SIP reference: RFC 3261 [4]				ISUP reference: Q.1912.5 [1], clause A.1.1.3.1 Q.784 [i.11], clause 1.3.2.4		
TSS reference	ISUP-SIP/ISUP Messa	ges for special c	onsider	ation/Rece	ipt (of a Blocking message	
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that a received	IAM will unblock	a remo	tely blocke	ed c	ircuit.	
SIP parameter							
values							
ISUP parameter							
values							
Comments	ISUP		SU	Т		SIP-I	
	BLO	→					
	BLA	←					
	IAM	→			}	INVITE(IAM)	
	ACM	+		•	(180 Ringing(ACM)	
	ANM	+		1	(200 OK INVITE(ANM)	
					}	ACK	
	REL	→		-	}	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]		ISUP reference: 2.5 [1], clause A.1.1.3.1 4 [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	_	•		<u>-</u>
ISUP selection criteria	PICS 4/22			
Test purpose	Ensure that on receipt of a us part available message. Ensure that the user part test	•	J	will respond by sending a user within SIP messages.
SIP parameter values			•	· ·
ISUP parameter values				
Comments	ISUP	S	UT	SIP-I
	UPT	→		
	UPA	+		

TP313002	SIP reference: RFC	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 user part test message									
SIP selection criteria										
ISUP selection criteria	PICS 4/22									
Test purpose	Ensure that the SUT is able	to send a	user par	t test me	essage.					
SIP parameter values										
ISUP parameter values										
Comments	ISUP		SU	T		SIP-I				
	UPT	+								
	UPA	→								

TP313003	SIP reference: RFC 326	1 [4]		SUP reference: 5 [1], clause A.1.1.3.1
TSS reference	ISUP-SIP/ISUP Messages for sp	ecial consid		E 2/
SIP selection criteria				
ISUP selection criteria	PICS 4/22			
Test purpose	T4 Waiting to receive a respon Ensure that the SUT is able to re T4.		•	_
SIP parameter values				
ISUP parameter values				
Comments	ISUP	S	UT	SIP-I
	UPT •			
	T4 expiry			
	UPT •	-		
	UPA =	→		

5.2.2.14 Segmentation

TP314001	SIP referen	ce: RFC 3261 [4]		ISUP reference: 2.5 [1], clause A.1.1.3.1				
TSS reference	ISUP-SIP/ISUP Me	ISUP-SIP/ISUP Messages for special consideration/Receipt of a user part test message							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that a call c direction.	an be successfull	y complete	ed if segment	ation applies in forward				
SIP parameter values	INVITE - encapsula information will be s No action takes pla	sent"		call indicator	absent or set to "no additional				
ISUP parameter values		rd call indicator: a		nformation wi	Il be sent in a segmentation				
Comments	ISUP		SUT		SIP-I				
	IAM	→							
	SGM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
			Conversa	tion					
	REL	→		→	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]		-	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 (D-MG(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						
	LANA					
ISUP parameter	IAM;					
values	Calling party number para	meter				
	Address signals = PIXIT1	1004 ID				
	Numbering plan indicator =		20441D			
	Nature of address indicator	= 0000	011B			
	Screening indicator = '11'B			اد میبیدا ام	IOOID	
Comments	presentation restricted indic	ator = μ	oresentation SU		, 00 B	SIP-I
Comments		_	30	<u> </u>	_	
	IAM	→			→	INVITE(IAM)
	ACM	+			+	180 Ringing(ACM)
	ANM	+			←	200 OK INVITE(ANM)
					→	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP401002	SIP reference: RFC	3261	[4]	Q 1912		SUP reference: 1], clauses 7.1.3 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP			Q.1012	_[ij, diadoco iii.o ana b.i
SIP selection criteria						
ISUP selection criteria						
Test purpose	Calling Party number netwo	rkprov	ided, Calling	g Subaddres	ss tr	ansferred in O-MGCF
	Ensure that the SUT can su the screening indicator set t 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 indicacess transport parameter	'001'B = '0000 cator =	presentation	address info		tion
Comments	ISUP		SU	Γ		SIP-I
	IAM	→			}	INVITE(IAM)
	ACM	+		•	-	180 Ringing(ACM)
	ANM	←			F	200 OK INVITE(ANM)
				-	}	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	+		•	(200 OK BYE(RLC)

TP401003	SIP reference: RFC	3261	[4]	0.40	-	SUP reference:
TCC matamana	IOLID OID IOLID/OO/OLID			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 user	orovide	d transferre	ed in O-M	GCF	
			•		_	he calling party number with
	the screening indicator set t				nd pas	sed" and the presentation
	restricted indicator set to "p	resenta	ition allowed	d".		
SIP parameter						
values						
ISUP parameter	IAM;					
values	Calling party number para	meter				
	Address signals = PIXIT1					
	Numbering plan indicator =					
	Nature of address indicator	= '0000'	0011'B			
	Screening indicator = '01'B					
	presentation restricted indic	cator =			l, '00'E	
Comments	ISUP		SUT	Γ		SIP-I
	IAM	→			→	INVITE(IAM)
	ACM	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					→	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP401004	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 user p	orovide	d and callin	g subaddr	ess ti	ransferred in O-MGCF
	Ensure that the SUT can su the screening indicator set t transport parameter contain	o "user	provided, v	erified and	d pas	calling party number with sed" and an access
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	'001'B	0011'B			
	Presentation restricted indic	ator = i	nresentation	n allowed	'00'B	
	Access transport parameter					
Comments	ISUP		SUT		0	SIP-I
	IAM	→			→	INVITE(IAM)
	ACM	+			←	180 Ringing(ACM)
	ANM	+			(200 OK INVITE(ANM)
					→	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	+			←	200 OK BYE(RLC)

TP401005	SIP reference: RFC	3261	[4]			SUP reference:			
				Q.191	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 network provided and additional calling party number user provided not verified transferred in O-MGCF.								
	Ensure that the SUT can su number with the screening containing the additional cal	indicate	or set to "ne	twork pro	vided'	and a generic number			
	provided, not verified" and the allowed".								
SIP parameter									
values									
ISUP parameter	IAM;								
values	Calling party number para	meter							
	Address signals = PIXIT1	100415							
	Numbering plan indicator =		044ID						
	Nature of address indicator Screening indicator = '11'B	= 0000	DUTTB						
	Presentation restricted indic	otor – I	orocontation	allowed	יחחים				
	Generic number paramete		Jiesemanoi	i allowed,	000				
	Address signals = PIXIT2								
	Numbering plan indicator =	'001'B							
	Nature of address indicator		011'B						
	Screening indicator = '00'B								
	Presentation restricted indic	ator =	oresentation	allowed,	'00'B				
Comments	ISUP		SUT	7		SIP-I			
	IAM	→			→	INVITE(IAM)			
	ACM	+			+	180 Ringing(ACM)			
	ANM	+			+	200 OK INVITE(ANM)			
					→	ACK			
			Convers	ation					
	REL	→			→	BYE(REL)			
	RLC	+			+	200 OK BYE(RLC)			

TP401006	SIP reference: RFC	3261	[4]	0.404		SUP reference:				
TSS reference	ICLID CID ICLID/CC/CLID			Q.191	12.5 [1], clauses 7.1.3 and B.1				
SIP selection	ISUP-SIP-ISUP/SS/CLIP									
criteria										
ISUP selection										
criteria										
	Calling Party Number network provided, additional calling party number user provided not									
Test purpose	verified and calling subaddress transferred in O-MGCF.									
	Ensure that the SUT can suc	cessfu	ılly transmit	a call hav	/ing a	default calling party number				
	with the screening indicator s									
	additional calling party number									
	verified" and an access trans									
SIP parameter										
values										
ISUP parameter	IAM;									
values	Calling party number paran	neter								
	Address signals = PIXIT1									
	Numbering plan indicator = '0									
	Nature of address indicator =	: '0000)011'B							
	Screening indicator = '11'B									
	Generic number parameter									
	Address signals = PIXIT2									
	Numbering plan indicator = '0									
	Nature of address indicator =	: '0000	0011'B							
	Screening indicator = '00'B									
0	Access transport parameter i	nciuai	_		torma					
Comments	ISUP		SUT			SIP-I				
	IAM	<u>→</u>			<u>→</u>	INVITE(IAM)				
	ACM	<u>+</u>			<u>+</u>	180 Ringing(ACM)				
	ANM	-			<u> </u>	200 OK INVITE(ANM)				
			0	- 1 !	→	ACK				
	DEL		Conversa	ation		D) (E (DEL)				
	REL	<u>→</u>			<u>→</u>	BYE(REL)				
	RLC	-			←	200 OK BYE(RLC)				

TP401007	SIP reference: RF	C 3261 [4]		ISUP reference:			
			Q.	1912.5 [1], clauses 6.1.3.6 and B.1		
SS reference	ISUP-SIP-ISUP/SS/CLIP						
SIP selection criteria							
SUP selection	PICS 6/8						
Test purpose	Calling party number disca	arded to due l	oilateral agre	ement ir	the I-MGCF.		
SIP parameter values	IAM:		·				
SUP parameter	IAM;						
/alues	No calling party number	parameter					
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	INVITE(IAM) 180 Ringing(ACM)	→		→	IAM ACM		
	180 Ringing(ACM)	+		+	ACM		
	180 Ringing(ACM) 200 OK INVITE(ANM)	← ← →	onversation	+	ACM		
	180 Ringing(ACM) 200 OK INVITE(ANM)	← ← →	onversation	+	ACM		
	180 Ringing(ACM) 200 OK INVITE(ANM) ACK	← ← → C	onversation	+	ACM ANM		

TP401008	SIP reference: RF	C 3261 I	41		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	Additional Calling party nu	ımber is d	discarded to	due bilateral	agreements in the I-MGCF
SID parameter	of bilateral agreements, if "presentation allowed".				c number is discarded in case dindicator is set to
SIP parameter					
values					
ISUP parameter	IAM;				
values	No calling party number	parame			lierin
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		←	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversa	ition	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		-	RLC
NOTE: This bila	teral agreement prohibits the	e transfer	ral of the ca	lling party nur	nber in any case. The test with
	ess presentation restricted in				

TP401009	SIP reference: RI	FC 3261	[4]		ISUP reference: 1], clauses 6.1.3.6 and B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP			_					
SIP selection criteria									
ISUP selection criteria	PICS 6/6								
Test purpose	Calling party number is omitted if the presentation restriction indicator is set to address not available in the I-MGCF Ensure that the calling party number is omitted, if the address presentation restricted indicator is set to "address not available".								
SIP parameter values									
ISUP parameter values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversat	tion					
	BYE(REL)	→		→	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						
	9 .	Ensure that the calling party number in the sent IAM is generated from the calling party number in the encapsulated IAM.							
SIP parameter									
values									
ISUP parameter values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Convers	ation					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

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TP401011	SIP reference: RI	FC 3261 [ISUP reference: 1], clauses 6.1.3.6 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP				,,
SIP selection					
criteria					
SUP selection					
criteria					
Test purpose	Additional calling party nu	ımber is s	ent as received		
SIP parameter values	additional calling party nu	111001 111 11	io onsapsulated	7 1141.	
values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		←	ANM
	ACK	→			
			Conversation		
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP401012	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	Additional calling party nu	mber is o	omitted in the	I-MGCF	
	Ensure that if the calling			sent, then an	additional calling party
	number in a generic num	ber will b	oe omitted.		
SIP parameter	INVITE: No calling party r	iumber ir	ncluded in the	encapsulate	d IAM, additional calling party
values	number included.				
ISUP parameter	IAM;				
values	No calling party number	parame	ter		
	No generic number para	meter			
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversa	tion	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP401013	SIP reference: RFC	3261		Q.1912.5 [1	SUP reference:], clauses 6.1.3.6 and B.1, 31 [i.2], clause 3.5						
TSS reference	ISUP-SIP-ISUP/SS/CLIP	ISUP-SIP-ISUP/SS/CLIP									
SIP selection											
criteria											
ISUP selection criteria	PICS 1/7										
Test purpose	Convert the Calling party number into the international format in the I-MGCF										
	Ensure that the SUT can co setting the nature of addres address presentation restrict	s indica	ator to "internat	ional 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		owed, '00'B							
Comments	SIP-I		SUT		ISUP						
	INVITE(IAM)	→		→	IAM [1]						
	180 Ringing(ACM)	(+	ACM						
	200 OK INVITE(ANM)	-		+	ANM						
	ACK	→									
			Conversation	on							
	BYE(REL)	→		→	REL						
	200 OK BYE(RLC)	+		+	RLC						

TP401014	SIP reference: RFC	eference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clauses 6.1.3.6 and									
						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 calling party number to international format in the I-MGCF										
	Ensure that the SUT can co	nvert tl	ne additiona	al calling pa	artv n	number in the generic					
						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'D									
	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	- са. С	SU			ISUP					
	INVITE(IAM)	→	30		→	IAM					
	180 Ringing(ACM)	-			+	ACM					
	200 OK INVITE(ANM)	+			+	ANM					
	ACK	→									
			Convers	ation							
	BYE(REL)	→			→	REL					
	200 OK BYE(RLC)	+			+	RLC					

TP401015	SIP reference: RI	FC 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 AND NOT PICS	PICS 1/7 AND NOT PICS 1/9							
Test purpose	Ensure that the calling pa	Discarding an incomplete calling party number in the I-MGCF Ensure that the calling party number is discarded, if it is received with the calling party number incomplete indicator set to "incomplete" (see note).							
SIP parameter values									
ISUP parameter values	IAM: No calling party number	parame	ter						
Comments	SIP-I	•	SU	Γ	ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Convers	ation					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				
NOTE: This test	case is only applicable with	an ITU i	mplementat	tion.	•				

SIP reference: RFC 3	3261 [[4]	Q.1912	5 [1]	SUP reference:], clauses 6.1.3.6 and B.1, 31 [i.2], clause 3.5					
ISUP-SIP-ISUP/SS/CLIP										
PICS 1/8										
Converting the calling party number to national format, if necessary in the O-MGCF										
removed if it is the network's	own c	ountry code	e. The natu	ire of	address indicator shall be					
INVITE: encapsulated IAM										
Calling party number	r para	meter								
Address signals = PIX	IT1									
		= '0000011	'B							
	d indic	ator = pres	entation all	owe	d, '00'B					
	ter									
	0410									
		14.00ID								
	0000	100B								
	tor – r	orocontation	allowed !	חים						
	101 – 1			000	ISUP					
*** *	<u> </u>	30		<u> </u>	INVITE(IAM)					
	_			_	180 Ringing(ACM)					
	_			_	200 OK INVITE(ANM)					
, it divi					ACK					
		Convers			7.01					
RFL	→	30310		→	BYE(REL)					
					200 OK BYE(RLC)					
	PICS 1/8 Converting the calling party in Ensure that the country code removed if it is the network's set to "national (significant) in transferred transparently. INVITE: encapsulated IAM Calling party number Address signals = PIX Numbering plan indicator = Presentation restricted IAM Calling party number parame Address signals = PIXIT1 Numbering plan indicator = '0' Nature of address indicator = '10' Nature of address indicator = '10' Screening indicator = '11' B	PICS 1/8 Converting the calling party number Ensure that the country code in the removed if it is the network's own of set to "national (significant) number transferred transparently. INVITE: encapsulated IAM Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B Presentation restricted indicator = Address signals = PIXIT1 Numbering plan indicator = '11'B Nature of address indicator = '001'B Nature of address indicator = '001'B Nature of address indicator = '11'B Presentation restricted indicator = '11'B Presentation restricted indicator = '11'B REL → REL	ISUP-SIP-ISUP/SS/CLIP PICS 1/8 Converting the calling party number to national Ensure that the country code in the address si removed if it is the network's own country code set to "national (significant) number". The addit transferred transparently. INVITE: encapsulated IAM Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '001'B Nature of address indicator = '0000011 Screening indicator = '11'B Presentation restricted indicator = presentation restricted indicator = '0000100'B Screening indicator = '11'B Presentation restricted indicator = presentation res	PICS 1/8 Converting the calling party number to national format, if Ensure that the country code in the address signals of the removed if it is the network's own country code. The natuset to "national (significant) number". The address present transferred transparently. INVITE: encapsulated IAM Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '001'B Nature of address indicator = '11'B Presentation restricted indicator = presentation all IAM Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '001'B Nature of address indicator = '0000100'B Screening indicator = '11'B Presentation restricted indicator = presentation allowed, 'SIP-I IAM ACM ACM Conversation REL	PICS 1/8 Converting the calling party number to national format, if necessary in the calling party number to national format, if necessary is to "national (significant) number". The address presentation transferred transparently. INVITE: encapsulated IAM Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '001'B Nature of address indicator = '11'B Presentation restricted indicator = presentation allower address signals = PIXIT1 Numbering plan indicator = '001'B Nature of address indicator = '11'B Presentation restricted indicator = presentation allower address signals = PIXIT1 Numbering plan indicator = '0000100'B Screening indicator = '11'B Presentation restricted indicator = presentation allowed, '00'B SIP-1 IAM ACM ACM Conversation REL					

TP401017	SIP reference: RFC 3261 [4] 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	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 generic number 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 transferred transparently.									
SIP parameter	INVITE: encapsulated IAM									
values	Generic number param	eter								
	Address signals = PIXIT									
	Numbering plan indicato									
	Nature of address indica	tor = '00000'	1'B							
	Screening indicator = '11									
	Presentation restricted in	ndicator = pre	esentation allow	ed, '00'B						
ISUP parameter	IAM;									
values	Calling party number paramet	ter								
	Address signals = PIXIT1									
	Numbering plan indicator = '001									
	Nature of address indicator = '0	000100'B								
	Screening indicator = '11'B			6						
	Presentation restricted indicator	= presentat	on allowed, 100	В						
	Generic number parameter									
	Address signals = PIXIT2 Numbering plan indicator = '001	'D								
	Nature of address indicator = '0									
	Screening indicator = '00'B	000100В								
	Presentation restricted indicator	- nresentati	on allowed '00'	R						
Comments	SIP-I		JT	ISUP						
Commonto	IAM →		→	INVITE(IAM)						
	ACM €		,	180 Ringing(ACM)						
	ANM •		+	200 OK INVITE(ANM)						
			→	ACK						
		Conve	sation							
	REL →		→	BYE(REL)						
	RLC •		+	200 OK BYE(RLC)						
	11.20									

TP401018	SIP reference: RF	C 3261	[4]		ISUP reference:
					1], clauses 6.1.3.6 and B.1,
<i>(</i>	10117 017 10117 100 10117			Q.	731 [i.2], clause 3.5
TSS reference	ISUP-SIP-ISUP/SS/CLIP				
SIP selection					
criteria					
ISUP selection	PICS 1/7				
criteria					
Test purpose	Adding a prefix to an inter	national	calling party	number in the	e I-MGCF
	3 ,		373		
	Ensure that a prefix is add	lad to the	calling na	rty number a	nd the nature of address
	indicator is set to "unknow			ity iluliibei a	id the nature of address
CID naramatar	indicator is set to unknow	ii (see i	iole).		
SIP parameter values					
ISUP parameter					
values	OID I		0117	-	IOLID
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		←	ACM
	200 OK INVITE(ANM)	←		←	ANM
	ACK	→			
			Convers	ation	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC
NOTE: The codir	ng "unknown" is a national c	ption (@	·).		

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 calling party number is set to "address not available" (see note).								
SIP parameter	available (see flote).								
values									
ISUP parameter	IAM:								
values	Calling party number party Address signals = PIXIT1 Numbering plan indicator =								
	Nature of address indicators								
	Screening indicator = '11'E								
	Presentation restricted ind		address not a	vailable, '10'F	3				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversa	tion					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				
NOTE: The codi	ing "address not available" is	a nation	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	parameter and the Generic Sends an INVITE message	nas rec Numbe withou nous@a	eived an IAler are not apt the "P-Ass anonymous.	M message v plicable. erted-Identity invalid". No F	hereby Calling Party Number header field", the "From Privacy header field included.
values	INVITE. NOT -Asserted idei	ility, i i	om neader.	anonymous	<u>& anonymous.invaliu</u>
ISUP parameter values	IAM; no Calling party number	er and	no Additiona	al calling party	y number present
Comments	ISUP		SUT	•	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	(+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP401021	SIP reference: RFC	3261	Γ 4 1		ISUP reference:
		0_0.	,	Q.1912.5	[1], clauses 7.1.3 and B.1
TSS reference:	ISUP-SIP-ISUP/SS/CLIP				<u> </u>
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	O-MGCF: Setting of From h	eader			
SIP parameter values	parameter is not applicable presentation restriction para Address Indicator is set to N Sends an INVITE message field" where the user portion number and the country	e and the ameter loAS_\ without of the le is serivacy Intity, no	ne Generic is set to "pre /ALUE. t the "P-Ass addr-spec i t to the cour Header field	Number is a sesentation all erted-Identity s set to value thry where the ".	whereby Calling Party Number pplicable whereby the address owed" and the Nature of header field", a "From header of the additional calling party e MGCF is located in the format eader contains the value of the
ISUP parameter	IAM; no Calling party number		ent, Additior	nal calling par	rty number present
values	, , , , , , , , , , , , , , , , , , , ,		.,	31	, ,
Comments	ISUP		SUT		SIP-I
	IAM	↑		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversa	ation	
	REL	~		→	BYE(REL)
	RLC	4		+	200 OK BYE(RLC)

TP401022	SIP reference: RFC	3261 [4]			ISUP reference:						
TCC reference	ICLID CID ICLID/CC/CLID			Q.1912.5	[1], clauses 7.1.3 and B.1						
TSS reference	150P-51P-150P/55/CLIP	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria											
ISUP selection											
criteria											
Test purpose	O-MGCF: Setting of P-Asserted header header										
rest 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 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				umber, Privacy=id, From						
values	header derived from the add										
ISUP parameter values	IAM; Calling party number is	s present ar	nd no Ad	ditional callir	ng party number is present						
Comments	ISUP		SUT		SIP-I						
	IAM	→		→	INVITE(IAM)						
	ACM	+		+	180 Ringing(ACM)						
	ANM	+		-	200 OK INVITE(ANM)						
				→	ACK						
		Co	onversat	ion							
	REL	→		→	BYE(REL)						
	RLC	+	•	+	200 OK BYE(RLC)						

TP401023	SIP reference: RFC	3261	[4]		- 1	SUP reference:			
11 101020		0_0.		Q.19	-	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 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 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								
		here th numbe format	e user porti r and the co "+"CC+ND	on of the ountry coc C+SN;	addr-s le is s	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	IAM; Calling party number a	ınd Add	ditional callir	ng party r	numbe	er are present			
values	IOUR		0117	-		loin i			
Comments	ISUP		SUT			SIP-I			
	IAM	→			→	INVITE(IAM)			
	ACM	+			+	180 Ringing(ACM)			
	ANM	_			1	200 OK INVITE(ANM) ACK			
			Convers	ation	7	ACK			
	REL	→	COLLAGE	auun	→	BYE(REL)			
	RLC				-	200 OK BYE(RLC)			
	INLO	•			•	ZOO ON DIL(NLO)			

	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)	INVITE 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 vofeveres	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	Calling party derived from the P-Asserted-Identity international number									
	Ensure when no calling part party number in the in the e					osulated IAM or the calling the P-Asserted-Identity, no				
	Privacy value "id" received.									
	Send an IAM the calling par									
	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									
values	Address signals = nu				sserte	ed-Identity				
	Screening indicator =			i						
	Number Incomplete									
	Numbering plan indic									
	Address Presentation NoAS: "international			itor = Pre	sentat	cion allowed				
Comments	SIP-I		SU	Γ		ISUP				
	INVITE(IAM)	→			→	IAM				
	180 Ringing(ACM)	←			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	→								
			Convers	ation						
	BYE(REL)	→			→	REL				
	200 OK BYE(RLC)	+		-	+	RLC				

TP401025	SIP reference: RFC	3261	[4]	Q.1912.5	ISUP reference: [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 portion is in the format "+"CC+NDC+SN, Privacy value									
values	"id" is not present									
ISUP parameter	IAM message with the Call									
values	Address signals = no Screening indicator : Number Incomplete Numbering plan indi Address Presentatio NoAS: "national (sig	= netwo Indicate cator = n Resti	ork provided or = PIXIT ISDN numb icted Indica) number"	pering plan tor = Present	ation allowed					
Comments	SIP-I		SUT	r l	ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
			Convers	ation						
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP401026	SIP reference: RFC	3261 [4	4]	0.4040	_	SUP reference:				
TSS reference	ISUP-SIP-ISUP/SS/CLIP			Q.1912.	ວ [ເ], clauses 6.1.3.6 and B.1				
SIP selection	IOUT-OIT-IOUT/OO/OLIF									
criteria										
ISUP selection	DIOO 4/7									
criteria	PICS 1/7									
	Additional calling parts num	har dari	und from t	as From ho	<u> </u>	r international number				
Test purpose	Additional calling party numb	Additional calling party number derived from the From header 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 portion is in the format "+"CC+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	number				lierin				
Comments	SIP-I		SU			ISUP				
	INVITE(IAM)	→)	IAM				
	180 Ringing(ACM)	+			<u> </u>	ACM				
	200 OK INVITE(ANM)	+		•	(ANM				
	ACK	→								
			Convers	ation						
	BYE(REL)	→			}	REL				
	200 OK BYE(RLC)	+		•	-	RLC				

TP401027	SIP reference: RFC	3261	[4]	0.404		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	Additional calling party number derived from the From header national (significant) number									
	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, no Privacy value "id" received. Send an IAM the additional calling party number is derived from From header field. The									
	Address Presentation Restr									
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	ne format	: "+"C(C+NDC+SN, Privacy value				
values	"id" is not present									
ISUP parameter	IAM message with the Addi									
values	Address signals = nu					der				
	Screening indicator =	= User	provided, no	ot verified	"					
	Number Incomplete	Indicate	or = PIXIT							
	Numbering plan indic	cator =	ISDN numb	ering pla	n					
	Address Presentation	n Restr	icted Indica	tor = Pres	sentat	ion allowed				
	NoAS: "national (sigr	nificant) number"							
Comments	SIP-I		SUT	-		ISUP				
	INVITE(IAM)	→			→	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)	(+	ANM				
	ACK	→								
			Convers	ation						
	BYE(REL)	→			→	REL				
	200 OK BYE(RLC)	-			+	RLC				

5.3.2 Calling Line Identification Restriction (CLIR)

TP402001	SIP reference: RFC	3261 [4]	Q.1912.5 [ISUP 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	Calling party number network	k provi	ded presentat	ion restricte	ed is passed.
	Ensure that the SUT can suct the screening indicator set to indicator set to "presentation	"netw	ork provided"		a calling party number with dress presentation restricted
SIP parameter values					
ISUP parameter	IAM;				
values	Calling party number parar Screening indicator = '11'B Address presentation restrict Generic number parameter	ed par	esent		
•	Access transport parameter	er is no		e subaddres	
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	(-	180 Ringing(ACM)
	ANM	←		-	200 OK INVITE(ANM)
	-		Camusaus = !!	→	ACK
	DEL		Conversation		DVE(DEL)
	REL	→		→	BYE(REL)
	RLC	←		←	200 OK BYE(RLC)

TP402002	SIP reference: RFC 32	261 [4]		SUP 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	Restricted calling party num	ber (network	provided) with	calling sub-address
	Ensure that the SUT can pass	transparently	a call having a c	alling party number with the
	screening indicator set to "netv	vork provided"	, the address pr	esentation restricted indicator
	set to "presentation restricted"	and an acces	s transport par	ameter containing the calling
	sub-address.			
SIP parameter				
values				
ISUP parameter	IAM;			
values	Calling party number parame	eter		
	Screening indicator = '11'B			
	Address presentation restricted		'01'B	
	Generic number parameter n			
	Access transport parameter			
Comments	ISUP	SL		SIP-I
	17 (17)	→	→	INVITE(IAM)
	710111	-	(180 Ringing(ACM)
	ANM	F	←	200 OK INVITE(ANM)
			→	ACK
		Conver		
		>	→	BYE(REL)
	RLC •	-	(200 OK BYE(RLC)

TP402003	SIP reference: RFC	3261	[4]		I	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 nu					
	Ensure that the SUT can pa screening indicator set to "u presentation restricted indic	ser pro	vided, verif	ied and pa	assed	
SIP parameter	presentation restricted indic	ator sc	t to proson	tation res	triotoc	4 .
values						
ISUP parameter	IAM					
values	Calling party number para	meter				
	Address signals = PIXIT1					
	Numbering plan indicator =	'001'B				
	Nature of address indicator	= '0000'	0011'B			
	Screening indicator = '01'B					
	Address presentation restrict	cted pa				
Comments	ISUP		SU			SIP-I
	IAM	→			→	INVITE(IAM)
	ACM	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					→	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP402004	SIP reference: RFC	3261	[4]		12.5 [[*]	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 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 Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '01'B Address presentation restric Access transport paramet	'001'B = '0000 cted pa	0011'B rameter = '0 uding subad	dress inf	ormati	
Comments	ISUP		SUT	Γ		SIP-I
	IAM	→			→	INVITE(IAM)
	ACM	←			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					→	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	←			+	200 OK BYE(RLC)

TP402005	SIP reference: RFC	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	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 restricted".						
SIP parameter values							
ISUP parameter	IAM:						
values	Address signals = PIXIT1 Numbering plan indicator = 'Nature of address indicator screening indicator = '11'B Address presentation restrict Generic number paramete Address signals = PIXIT2 Numbering plan indicator = 'Nature of address indicator screening indicator = '00'B	Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '001'B Nature of address indicator = '0000011'B Screening indicator = '11'B Address presentation restricted parameter = '01'B Generic number parameter Address signals = PIXIT2 Numbering plan indicator = '001'B Nature of address indicator = '0000011'B					
Comments	ISUP		SUT	r	SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			Convers	ation			
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP402006	SIP reference: RFC	3261	[4]	O 191		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 pass transparently a call having a default calling party number with the screening indicator set to "network provided", 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 restricted" and an access transport parameter containing the calling sub-address .						
SIP parameter							
values							
ISUP parameter	IAM;						
values	Calling party number para Address signals = PIXIT1						
	Numbering plan indicator = '						
	Nature of address indicator :	= '0000)011'B				
	Screening indicator = '11'B						
	Address presentation restric		rameter = '0)1'B			
	Generic number paramete	r					
	Address signals = PIXIT2	00410					
	Numbering plan indicator = '		0044ID				
	Nature of address indicator : Screening indicator = '00'B	= 0000	DOTTE				
	Address presentation restrict	tod no	ramatar – 'C	11'D			
	Access transport paramet				rmati	on	
Comments	ISUP	J. 111010	SU		αι	SIP-I	
2 3	IAM	→			→	INVITE(IAM)	
	ACM	+			-	180 Ringing(ACM)	
	ANM	+			+	200 OK INVITE(ANM)	
					→	ACK	
			Convers	ation			
	REL	→			→	BYE(REL)	
	RLC	+			+	200 OK BYE(RLC)	

TP402007	SIP reference: RF	C 3261	[4]		ISUP reference:
					1], clauses 6.1.3.6 and B.1, I [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	s restricted
	Ensure that the calling pa address presentation restr				of bilateral agreements, if the on restricted".
SIP parameter				-	
values					
ISUP parameter	IAM;				
values	No Calling party number	parame	eter		
Comments	SIP-I		SU	Г	ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Convers	ation	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP402008	SIP reference: RF	C 3261	[4]		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	PICS 6/4 AND PICS 6/5					
Test purpose	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 "presentation restricted".					
SIP parameter values						
ISUP parameter values	IAM; No Calling party number No Generic number para	-	eter			
Comments	SIP-I		SU	-	ISUP	
	INVITE(IAM)	→		→	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	→				
			Convers	ation		
	BYE(REL)	→		→	REL	
	200 OK BYE(RLC)	+		+	RLC	

TP402009	SIP reference: RF	C 3261	[4]		2.5 [1	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: 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 ISUP IAM.					
SIP parameter						
values						
ISUP parameter values						
Comments	SIP-I		SUT	•		ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

TP402010	SIP reference: RI	FC 3261	[4]	Q.1912.5 [[*]	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: Additional calling	g party n	umber recei	ved in the INV	ITE is sent in the IAM
SIP parameter values	Ensure that the additional unchanged sent in the ISI		party numbe	r contained in	the encapsulated IAM is
ISUP parameter values					
Comments	SIP-I		SU	Γ	ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Convers	ation	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP402011	SIP reference: RFC 32	261 [4]		SUP reference: [1], clauses 7.1.3 and B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIR					
SIP selection						
criteria						
ISUP selection criteria						
Test purpose SIP parameter	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". INVITE: P-Asserted-Identity, From Header: anonymous@anonymous.invalid, Privacy "id"					
values	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			on, medelima, i medelji na		
ISUP parameter	IAM: Calling party number. No	additional calli	ng party numbe	er .		
values						
Comments	ISUP	SU	T	SIP-I		
	IAM =	•	→	INVITE(IAM)		
	ACM		+	180 Ringing(ACM)		
	ANM	[+	200 OK INVITE(ANM)		
			→	ACK		
		Convers	sation			
	REL -	•	→	BYE(REL)		
	RLC	[+	200 OK BYE(RLC)		

TP402012	SIP reference: RFC	3261 [4]	0.10	-	SUP reference: 1], clauses 7.1.3 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIR			Q.13	12.5 [ij, clauses 7.1.5 aliu B.1
SIP selection	IGGI GII IGGI /GG/GEIIX					
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 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; "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; and with "Privacy Header field" is set to "id". 					
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 numh	er	
values	in will calling party frameon a	aantioi	ar cannig p	arty manna	, , ,	
Comments	ISUP		SU			SIP-I
	IAM	→			→	INVITE(IAM)
	ACM	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					→	ACK
			Convers	ation		
	REL	→			→	BYE(REL)
	RLC	←			←	200 OK BYE(RLC)

	Values for test purpose TP401012					
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 portion of URI scheme				
VA_02	IAM NoAS_VALUE: "international number" ("+"CC+NDC+SN)	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]		I;	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	PICS 1/7							
criteria								
Test purpose	party number in the in the e Privacy value "id" received. Send an IAM the calling par	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, 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 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 Calli	ng par	ty number	paramet	er cod	led		
values	Address signals = nu Screening indicator = Number Incomplete Numbering plan indic Address Presentatio	= netwo Indicate cator =	ork provided or = PIXIT ISDN numb	l pering pla	n	·		
	NoAS: "international			ioi = Fie	Semai	ion restricted		
Comments	SIP-I	Hullibe	SUT	7		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	` '				→	ACK		
			Convers	ation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			←	RLC		

TP402014	SIP reference: RFC	3261	[4]	Q.191	-	SUP reference:], clauses 6.1.3.6 and B.1	
TSS reference:	ISUP-SIP-ISUP/SS/CLIR					.,,	
SIP selection							
criteria							
ISUP selection	NOT PICS 1/7						
criteria							
Test purpose	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, 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 restricted.						
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he forma	t "+"C	C+NDC+SN, Privacy value	
values	"id" is present	•				,	
ISUP parameter	IAM message with the Calli	ng par	ty number	paramet	er cod	ded	
values	Address signals = nu				sserte	ed-Identity	
	Screening indicator =						
	Number Incomplete						
	Numbering plan indic						
	Address Presentation			tor = Pre	sentat	tion restricted	
_	NoAS: "national (sign	nificant				I	
Comments	SIP-I		SUT			ISUP	
	INVITE(IAM)	<u>→</u>			→	IAM	
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	-			+	ANM	
	ACK	→					
			Convers	ation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+			←	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 forma	t "+"C	C+NDC+SN, Privacy value	
values	"id" is present	-				-	
ISUP parameter	IAM message with the Addi	itional	Calling par	rty numb	er pai	rameter coded	
values	Screening indicator = Number Incomplete Numbering plan indic	Address signals = number derived from SIP From header Screening indicator = User provided, not verified" Number Incomplete Indicator = PIXIT Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation restricted					
Comments	SIP-I	Humbe	SU	г		ISUP	
Comments	INVITE(IAM)	→	30		→	IAM	
	180 Ringing(ACM)	+			-	ACM	
	200 OK INVITE(ANM)	\			+	ANM	
	ACK	`				AUNI	
			Convers	ation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+			+	RLC	

TP402016	SIP reference: RFC	3261	[4]	O 1911	-	SUP reference: I], clauses 6.1.3.6 and B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIR							
SIP selection	1001 011 1001 7007 0211 (
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	r pa	rameter coded		
values	Address signals = no Screening indicator : Number Incomplete Numbering plan indic Address Presentatio NoAS: "national (signational)	= 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)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)							
	ACK	→						
			Convers	ation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

5.3.3 Connected line identification presentation (COLP)

TP403001	SIP reference: RI	FC 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/COLF)	·		
SIP selection criteria					
ISUP selection criteria					
Test purpose	Initiate COLP request				
	Ensure that the exchange the optional forward call			call requ	uesting the COLP service in
SIP parameter values					
ISUP parameter	IAM;				
values	optional forward call inc	dicators	Connected line ide	entity rec	quest indicator = requested
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	←		←	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversation		
	BYE(REL)	→		→	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 connected si	ub-auui	533.					
values								
ISUP parameter	IAM;							
values	optional forward call indic Connected line identity requal ANM; Connected number paran Address presentation restric Nature of address indicator Numbering plan indicator = '01'B Address signals = PIXIT and an access transport plan b) CON; Connected number paran Address presentation restric Nature of address indicator Numbering plan indicator = Screening indicator = '01'B Address signals = PIXIT and an access transport plan Address signals = PIXIT and an access transport plan Address signals = PIXIT	neter cted pa = '0000 '001'B earamet neter cted pa = '0000 '001'B	rameter = '0 0011'B er containin rameter = '0 0011'B	00'B ng the connec 00'B				
Comments	SIP-I		SU	Г	ISUP			
	INVITE(IAM)	→		→	IAM			
	CASE A							
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
	CASE B							
	200 OK INVITE(CON)	+		+	CON			
	ACK	→						
			Convers	ation				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		←	RLC			

TP403003	SIP reference: RFC	3261	[4]	C).19 ⁻	SUP reference: 12.5 [1], clause B.2,
				Q.	731	[i.2], clause 5.5.2.1.1
TSS reference SIP selection	ISUP-SIP-ISUP/SS/COLP					
criteria						
ISUP selection criteria						
Test purpose		transp etwork screen	parently a de provided", a ing indicato	efault conn a generic i r set to "use	nectonum er pi	ed number with the ber containing the additional rovided, not verified" without
SIP parameter values						
ISUP parameter	IAM;					
values	optional forward call indical Connected line identity requial ANM; Connected number parama Address presentation restrict Nature of address indicator = 'Numbering plan indicator = '11'B Address signals = PIXIT Additional connected num Address presentation restrict Nature of address indicator = 'Numbering plan indicator = 'Numbering plan indicator = 'Numbering plan indicator = 'Numbering indicator = '10'B Address signals = PIXIT b) CON; Connected number parama Address presentation restrict Nature of address indicator = 'Numbering plan indicator = 'Numbering plan indicator = '11'B Address signals = PIXIT Additional connected num Address presentation restrict Nature of address indicator = 'Numbering plan indicator = 'Numbering plan indicator = 'Numbering plan indicator = 'Numbering plan indicator = 'Numbering indicator = '00'B Address signals = PIXIT	eter ted pa = '0000 001'B ber pr ted pa = '0000 001'B eter ted pa = '0000 001'B	rameter = 'C 0011'B esent rameter = 'C 0011'B rameter = 'C 0011'B	00'B 00'B		
	OID I		0.11	- 1		loup
Comments	SIP-I		SUT		→	ISUP
	INVITE(IAM) CASE A	→			7	IAM
	180 Ringing(ACM)	+			(ACM
	200 OK INVITE(ANM)	`			`	ANM
	ACK	<u>`</u>		- 		
	CASE B		1			1
	200 OK INVITE(CON)	+			(CON
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			(RLC

TP403004	SIP reference: RFC	3261	[4]		ISUP reference:				
				Q.19	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 connected number to national format, if necessary								
					nnected number is removed				
	if it is the network's own cou								
	"national (significant) number				ricted indicator and the				
	screening indicator shall be			arently.					
SIP parameter	200 OK: encapsulated ANM								
values	Connected number								
	Address presentation								
	Nature of address inc			'В					
	Numbering plan indic								
	Screening indicator =		_51						
ICUD parameter	Address signals = Pl	XII							
ISUP parameter values	IAM;								
values	optional forward call indicators								
	Connected line identity request indicator: requested								
	a)								
	ANM;								
	Connected number param								
	Address presentation restrict			00'B					
	Nature of address indicator		J100'B						
	Numbering plan indicator = '								
	Screening indicator = ISUP_								
	Address signals = CC+PIXI	ı							
	b) CON ;								
	Connected number parameter								
	Address presentation restricted parameter = '00'B								
	Nature of address indicator = '0000100'B								
	Numbering plan indicator = '000'10' B								
	Screening indicator = ISUP_SI								
	Address signals = CC+PIXI								
	Generic number paramete	r not p	resent						
Comments	SIP-I		SUT	Γ	ISUP				
	INVITE(IAM)	→		→	IAM				
	CASE A								
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		←	ANM				
	ACK	→							
	CASE B		,						
	200 OK INVITE(CON)	+		+	CON				
	ACK	→	<u> </u>						
			Convers						
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		←	RLC				

TP403005	SIP reference: RFC	3261	[4]			SUP reference:			
						12.5 [1], clause B.2,			
T00 (IOLID OID IOLID/OO/OOLD			Q.	/31	[i.2], clause 5.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/COLP								
SIP selection									
criteria	DIOC 4/7								
ISUP selection criteria	PICS 1/7								
Test purpose	Converting the additional connected number to national format, if necessary								
rest purpose	Ensure that the country code								
	"additional connected number								
	removed if it is the network's								
						on restricted indicator and the			
	screening indicator shall be					in rectricted indicator and the			
SIP parameter	200 OK: encapsulated ANM								
values	additional connected num								
	Address presentation restric	ted par	rameter = '0	0'B					
	Nature of address indicator =								
	Numbering plan indicator = '	001'B							
	Screening indicator = '01'B								
	Address signals = PIXIT								
ISUP parameter	IAM;								
values	optional forward call indica	ators							
	Connected line identity requi		licator: reque	ested					
	a)	est ind	icator. requi	Sicu					
	ANM:								
	Connected number parame	eter pr	esent						
	additional connected num								
	Address presentation restric	ted par	rameter = '0	0'B					
	Nature of address indicator =	= '0000)100'B						
	Numbering plan indicator = '	001'B							
	Screening indicator = '01'B								
	Address signals = CC+PIXIT	Ī							
	b)								
	CON;								
	Connected number parameter present								
	additional connected number								
	Address presentation restricted parameter = '00'B Nature of address indicator = '0000100'B								
	Numbering plan indicator = '		7100 B						
	Screening indicator = '01'B	00 I B							
	Address signals = CC+PIXIT	-							
Comments	SIP-I		SUT	'		ISUP			
	INVITE(IAM)	→			}	IAM			
	CASE À			ı		•			
	180 Ringing(ACM)	+		•	(ACM			
	200 OK INVITE(ANM)	+		•	(ANM			
	ACK	→							
	CASE B			•					
	200 OK INVITE(CON)	+			(CON			
	ACK	→							
			Conversa	ation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+		•	(RLC			

TP403006	SIP reference: RFC 326	1 [4]	Q.19	ISUP reference: 112.5 [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 internation Ensure that a prefix is added to the indicator is set to "unknown" (see	he connecte e note).	d number and	the nature of address
SIP parameter	200 OK INVITE with encapsulate		NC	
values	Connected number para			
	Address presentation res Nature of address indicat			
	Numbering plan indicator		ь	
	Screening indicator = '11'			
	Address signals = PIXIT	D		
ISUP parameter	ANM/CON:			
values	Connected number parameter			
	Address presentation restricted	oarameter = '	00'B	
	Nature of address indicator = '00			
	Numbering plan indicator = '001'	В		
	Screening indicator = '11'B			
	Address signals = Prefix+PIXIT			lieus
Comments	SIP-I	SU		ISUP
	IAM →		→	INVITE(IAM)
	CASE A			A OO Disasis st (A ONA)
	ACM ←		+	180 Ringing(ACM)
	ANM ←		7	200 OK INVITE(ANM)
	CASE B		7	ACK
				200 OK INIVITE (CONI)
	CON ←		←	200 OK INVITE(CON) ACK
		Convers		ACK
	REL →	Convers	ation >	DVE/DEL)
	RIC &		+	BYE(REL) 200 OK BYE(RLC)
NOTE: The cod	ing "unknown" is a national option ((A)	7	200 ON BIE(RLC)
INOTE. THE COO	ing unknown is a national option (<u>w).</u>		

TP403007	SIP reference: RFC 326	1 [4]		reference: [1], clause B.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 num			
	Ensure that the connected num			
OID .	address presentation restricted in			owed" (see note).
SIP parameter values	200 OK INVITE with encapsulate		N	
values	Connected number para		-t 100ID	
	Address presentation resinature of address indicate			
	Numbering plan indicator		Ь	
	Screening indicator = '11'			
	Address signals = PIXIT	Ь		
ISUP parameter	IAM			
values	optional forward call indicator	s		
	Connected line identity request in		ested	
	a)			
	ÁNM			
	No Connected number parame	eter		
	(b)			
	CON;			
_	No Connected number parame			
Comments	ISUP	SU		
	IAM →		→ INV	ITE(IAM)
	CASE A	1		
	ACM ←			Ringing(ACM)
	ANM ←			OK INVITE(ANM)
			→ ACł	<
	CASE B			
	CON +			OK INVITE(CON)
			→ ACh	<
		Convers		
	REL →			E(REL)
	RLC +			OK BYE(RLC)
	teral agreement prohibits the transf			
the addr	ess presentation restricted indicato	r set to "pres	entation restricted" is	s a COLR test.

TP403008	SIP reference: RFC 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			
riteria			
SUP selection	PICS 1/8 AND PICS 7/4		
riteria			
Test purpose	Discarding the additional connected num		
	Ensure that the additional connected number		
	of bilateral agreements, if the address preser	ntation restricted	I indicator is set to
	"presentation allowed" (see note).		
SIP parameter	200 OK INVITE with encapsulated ANM or C		
alues	Additional Connected number para		
	Address presentation restricted paran		
	Nature of address indicator = '000001	1'B	
	Numbering plan indicator = '001'B		
	Screening indicator = '00'B Address signals = PIXIT		
SUP parameter			
alues	IAM;		
aiucs	optional forward call indicators		
	Connected line identity request indicator: req	uested	
	a)		
	ANM;		
	No Connected number parameter		
	No Additional connected number present		
	b)		
	CON;		
	No Connected number parameter		
	No Additional connected number present	-	
Comments	ISUP SU		SIP-I
	IAM →	→	INVITE(IAM)
	CASE A		
	ACM ←	+	180 Ringing(ACM)
	ANM ←	+	200 OK INVITE(ANM)
		→	ACK
	CASE B		
	CON +	←	200 OK INVITE(CON)
		→	ACK
	Conver		
	REL →	→	BYE(REL)
	RLC ←	←	200 OK BYE(RLC)

TP403009	SIP reference: RF	C 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				[···], ·····		
SIP selection							
criteria							
ISUP selection	PICS 1/8						
criteria							
Test purpose	the address presentation re	can con of addr estricted	vert the con ess indicator d indicator an	nected numb to "internation d the screening	er into an international nal number" and can pass on		
SIP parameter	200 OK INVITE with encap			N			
values	Connected numbe						
	Address presentation						
	Nature of address in			В			
	Numbering plan ind						
	Screening indicator Address signals = 0						
ISUP parameter	IAM;	70+1 1X					
values	optional forward call indi	cators					
	Connected line identity req		dicator: reque	ested			
	a)						
	ÁNM						
	Connected number parar						
	Address presentation restr			0'B			
	Nature of address indicator						
	Numbering plan indicator =						
	Screening indicator = '11'B						
	Address signals = PIXIT Presentation restricted indi	ootor –	יחחים				
	additional connected nur						
	b)	iibei pi	CSCIII				
	CON;						
	Connected number parar	neter					
	Address presentation restr		rameter = '0	0'B			
	Nature of address indicator						
	Numbering plan indicator = '001'B						
	Screening indicator = '11'B						
	Address signals = PIXIT						
	Presentation restricted indi						
Commonto	additional connected nur	nber pr			ICUD		
Comments	SIP-I INVITE(IAM)	→	SUT	→	ISUP IAM		
	CASE A	7		7	IAW		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	`		+	ANM		
	ACK	→	1		7 11 11 11		
	CASE B	<u> </u>	1	1	1		
	200 OK INVITE(CON) ← CON						
	ACK	→					
	-	1	Conversa	ition			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		
	1200 011 2 12(1120)		1	•	1		

TP403010	SIP reference: RFC	3261	[4]			ISUP reference:				
						12.5 [1], clause B.2,				
TSS reference				Q	.731	[i.2], clause 5.5.2.1.1				
SIP selection	ISUP-SIP-ISUP/SS/COLP	IOUI -OII -IOUI /OO/OOLI								
criteria										
ISUP selection										
criteria										
Test purpose	Handling unrequested CO	L								
	Ensure that the call can be		sfully set up	if the SU	T rec	ceives an unsolicited COL.				
SIP parameter	200 OK INVITE with encaps			N						
values		Connected number parameter								
	Address presentation		•		3					
	Nature of address in			В						
	Numbering plan indi									
	Screening indicator =									
ISUP parameter	Address signals = Pl	IAH								
values	optional forward call indic	ators								
Talaco	Connected line identity requ		dicator: not r	eauestec	i					
	a)			- 4	-					
	Α̈́NM;									
	Connected number param									
	Address presentation restrict			0'B						
	Nature of address indicator									
	Numbering plan indicator =	'001'B								
	Screening indicator = '11'B Address signals = PIXIT									
	additional connected num	her nr	esent							
	b)	ioci pi	COOM							
	CON;									
	Connected number param	neter								
	Address presentation restric	cted pa	arameter = '0	0'B						
	Nature of address indicator									
	Numbering plan indicator =	'001'B								
	Screening indicator = '11'B									
	Address signals = PIXIT additional connected num	hor or	ocont							
Comments	SIP-I	ibei pi	SUT			ISUP				
Comments	INVITE(IAM)	→	00.		→	IAM				
	CASE A		1			,,				
	180 Ringing(ACM)	←			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	→								
	CASE B									
	200 OK INVITE(CON)	+			+	CON				
	ACK	→								
			Conversa	ation						
	BYE(REL)	→			→	REL				
	200 OK BYE(RLC)	+	1		←	RLC				

TP403012	SIP reference: RFC 3	261 [4]		SUP 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 6								
	without changing. The connec		nchanged. The	ATP contained the					
	connected sub address is inclu								
SIP parameter values	200 OK INVITE: encapsulated	ANM or CON i	ncluded						
ISUP parameter	a)								
values	ANM;								
	Connected number paramet								
	Address presentation restricte		00'B						
	Nature of address indicator = '								
	Numbering plan indicator = '00)1'B							
	Screening indicator = '11'B								
	Address signals = PIXIT		41	al accha addresa					
	and an access transport para	ameter containii	ig the connecte	ed sub-address.					
	b) CON ;								
	Connected number paramet	or							
	Address presentation restricte		nn'B						
	Nature of address indicator = '		00 B						
	Numbering plan indicator = '00								
	Screening indicator = '11'B	,, ,							
	Address signals = PIXIT								
	and an access transport para	ameter containii	ng the connecte	ed sub-address.					
Comments	ISUP	SU		SIP-I					
	IAM -	→	→	INVITE(IAM)					
	CASE A			. , ,					
	ACM	-	+	180 Ringing(ACM)					
	ANM	-	+	200 OK INVITE(ANM)					
			→	ACK					
	CASE B								
	CON	(+	200 OK INVITE(CON)					
			→	ACK					
		Convers	ation						
	REL •	>	→	BYE(REL)					
	RLC ·	(+	200 OK BYE(RLC)					
	1.120			1200 011 21 211120)					

TP403013	SIP reference: RFC 3	3261	[4]).19	SUP reference: 12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/COLP	ISUP-SIP-ISUP/SS/COLP							
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	O-MGCF: connected number								
	Ensure that an ANM or CON of without changing. The connected sub address is incl	cted n	umber is ur						
SIP parameter values	200 OK INVITE: encapsulated			cluded					
ISUP parameter values	a) ANM;								
	Connected number paramet	ter							
	Address presentation restricted		rameter = '0	0'B					
	Nature of address indicator =	'0000	011'B						
	Numbering plan indicator = '0	01'B							
	Screening indicator = '11'B								
	Address signals = PIXIT								
	Additional connected numb Address presentation restricte			Λ'D					
	Nature of address indicator =			υБ					
	Numbering plan indicator = '0		סווט						
	Screening indicator = '00'B	0.5							
	Address signals = PIXIT								
	and an access transport par	amet	er containin	g the conn	ecte	ed sub-address.			
	b)								
	CON;								
	Connected number paramet								
	Address presentation restricte			0'B					
	Nature of address indicator =		0011'B						
	Numbering plan indicator = '0	01B							
	Screening indicator = '11'B Address signals = PIXIT								
	Additional connected numb	er nr	esent						
	Address presentation restricte			0'B					
	Nature of address indicator =			· -					
	Numbering plan indicator = '0	01'B							
	Screening indicator = '00'B								
	Address signals = PIXIT								
	and an access transport par	amet			ecte				
Comments	ISUP		SUT			SIP-I			
	L.	→		1	<u>→</u>	INVITE(IAM)			
	CASE A			-	,	1400 D: : (ACII)			
		(<u> </u>	180 Ringing(ACM)			
	ANM	<u> </u>			<u>←</u> →	200 OK INVITE(ANM) ACK			
	CASE B			'	7	AUN			
		-		1.	-	200 OK INVITE(CON)			
		•			<u>`</u>	ACK			
			Convers			7.01			
	REL	→	CONVENS		→	BYE(REL)			
		/			/	200 OK BYE(RLC)			
	INLO	•			•	200 OK DIL(NLO)			

5.3.4 Connected Line Identification Restriction (COLR)

TP404001	SIP reference: RF	C 3261	[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 Ensure that the SUT shall supplementary service in number.	pass tra	insparently all		related to the COLR indicator of the connected	
SIP parameter values						
ISUP parameter	IAM;					
values	optional forward call ind Connected line identity red a) ANM; Connected number para Address presentation rest Nature of address indicator Screening indicator = '01'E Address signals = PIXIT b) CON; Connected number para Address presentation rest Nature of address indicator Numbering plan indicator Screening indicator = '01'E Address signals = PIXIT	meter ricted pa br = '000' = '001'B meter ricted pa cr = '000' = '001'B	rameter = '01' 0011'B	В		
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	→	1	→	IAM	
	CASE A		I		In	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		-	ANM	
	ACK	<u>→</u>				
	CASE B	1	1	II.	-1	
	200 OK INVITE(CON)	+		+	CON	
	ACK	→				
			Conversati	on		
	BYE(REL)	→		→	REL	
	200 OK BYE(RLC)	+		←	RLC	

TP404002	SIP reference: RFC	3261	[4]		ı	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			. OOL D			
Test purpose	Passing on information rela			llinform	ation r	coloted to the COLD
	Ensure that the SUT shall pa supplementary service in the					
	number and the additional co					
SIP parameter				<u>g</u> e		
values						
ISUP parameter	IAM;					
values	optional forward call indica	tors				
	Connected line identity reque	est ind	icator: requ	ested		
	a)					
	ANM;	.4				
	Connected number parame			ALD.		
	Address presentation restrict Nature of address indicator =			I D		
	Numbering plan indicator = '0		МПБ			
	Screening indicator = '11'B	010				
	Address signals = PIXIT					
	Additional connected number	ber pr	esent			
	Address presentation restrict	ed pa	rameter = '0	1' B		
	Nature of address indicator =)011'B			
	Numbering plan indicator = '0)01'B				
	Screening indicator = '00'B					
	Address signals = PIXIT					
	b) CON;					
	Connected number parame	ter				
	Address presentation restrict		rameter = '0	1' B		
	Nature of address indicator =					
	Numbering plan indicator = '0	01'B				
	Screening indicator = '11'B					
	Address signals = PIXIT					
	Additional connected numb			41 D		
	Address presentation restrict Nature of address indicator =			I. B		
			סווטכ			
	Screening indicator = '00'B	,010				
	Address signals = PIXIT					
Comments	SIP-I		SUT	-		ISUP
	INVITE(IAM)	→			→	IAM
	CASE A					
	180 Ringing(ACM)	←			←	ACM
	200 OK INVITE(ANM)	(+	ANM
	ACK	→				
	CASE B		Т			1
	200 OK INVITE(CON)	<u> </u>			←	CON
	ACK	→	0	-4! - v	<u> </u>	
	DVE(DEL)		Convers	ation		DEL
	BYE(REL)	<u>→</u>			→	REL
	200 OK BYE(RLC)	←				RLC

TP404003	SIP reference: RFC	3261	[4]		ISUP reference:		
		0_0.			912.5 [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	Restricted connected num	ber (u	ser provide	ed, verified ar	nd passed) with connected		
	sub-address						
	Ensure that the SUT can pas						
	indicator set to "user provide						
	restricted indicator set to "pr						
	Additionally, an access tran	sport	parameter of	containing the	connected sub-address		
	shall also be provided.						
SIP parameter							
values							
ISUP parameter	IAM;	_1					
values	optional forward call indic						
	Connected line identity requ	est inc	ilcator: requ	estea			
	a) ANM ;						
	Connected number parame	otor					
	Address presentation restric		rameter - 'C	11' R			
	Nature of address indicator :			,, ,			
	Numbering plan indicator = '		30112				
	Screening indicator = '01'B	00.2					
	Address signals = PIXIT						
	access transport parameter	contai	ning the cor	nected sub-a	ddress		
	b)		· ·				
	CON;						
	Connected number parame						
	Address presentation restric			11' B			
	Nature of address indicator =		0011'B				
	Numbering plan indicator = '	001'B					
	Screening indicator = '01'B						
	Address signals = PIXIT	oontoi	nina tha aan	and due board	ddraaa		
Commonto	access transport parameter	contai					
Comments	SIP-I INVITE(IAM)	→	SUT	→	ISUP IAM		
	CASE A	7		7	IIAIVI		
		+		+	IACM		
	180 Ringing(ACM) 200 OK INVITE(ANM)	<u>~</u>		-	ACM ANM		
	ACK	<u> </u>			TOTAL ALIAN		
	CASE B		1		1		
	200 OK INVITE(CON)	+		+	CON		
	ACK → CON						
	AOR		Convers	ation			
	BYE(REL)	→	CONVERS	<u>ation</u> →	REL		
	200 OK BYE(RLC)			-	RLC		
	200 OK BTE(INEO)				INLO		

TP404004	SIP reference: RF	C 3261	[4]	Q.19	ISUP 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	PICS 7/1									
criteria										
Test purpose	Discarding the connected									
	Ensure that the connected									
	address presentation restri			to "presentation	on restricted".					
SIP parameter	200 INVITE: encapsulated									
values	No Connected num	ber para	ameter inclu	ded						
ISUP parameter	IAM;									
values	optional forward call indi									
	Connected line identity req	uest ind	icator: requ	ested						
	a)									
	ANM;									
	Connected number parar		IC	AID.						
	Address presentation restri			ПВ						
	Nature of address indicator Numbering plan indicator =		DOTTE							
	Screening indicator = '11'B									
	Address signals = PIXIT									
	b)									
	CON;									
	Connected number parar	neter								
	Address presentation restri		rameter = 'C	11'B						
	Nature of address indicator			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	Numbering plan indicator =		,,,,							
	Screening indicator = '11'B									
	Address signals = PIXIT									
Comments	SIP-I		SUT	-	ISUP					
	INVITE(IAM)	→		→	IAM					
	CASE À	•		•	<u> </u>					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
	CASE B	•		1	•					
	200 OK INVITE(CON)	+		+	CON					
	ACK	→								
	Conversation									
	BYE(REL)	→		>	REL					
	200 OK BYE(RLC)	-		+	RLC					

TP404005	SIP reference: RFC	3261	[4]		SUP reference:				
					12.5 [1], clause B.2, [i.2], clause 6.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/COLR				[], c.aacc c.c.z				
SIP selection	PICS 7/2								
criteria									
ISUP selection									
criteria									
Test purpose	Discarding the additional connected number in the generic number if the								
	presentation is restricted								
					number is discarded in case				
	of bilateral agreements, if th "presentation restricted".	e addre	ess present	ation restricted	indicator is set to				
SIP parameter	200 INVITE: encapsulated A	NIM or	CON						
values	No Additional Conne			meter included					
ISUP parameter	IAM;	otou ne	imbor parar	notor inordada					
values	optional forward call indic	ators							
	Connected line identity requ		icator: requ	ested					
	a)								
	ANM;								
	Connected number parame								
	Additional Connected nun								
	Address presentation restric)1'B					
	Nature of address indicator Numbering plan indicator =		DOTTB						
	Screening indicator = '11'B	0016							
	Address signals = PIXIT								
	b)								
	ĆON;								
	Connected number parameter	eter pre	esent						
	Additional Connected nun								
	Address presentation restrict			11'B					
	Nature of address indicator		0011'B						
	Numbering plan indicator = Screening indicator = '11'B	'001'B							
	Address signals = PIXIT								
Comments	SIP-I		SUT	- 1	ISUP				
Commonto	INVITE(IAM)	→		→	IAM				
	CASE A				<i>p</i>				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
	CASE B								
	200 OK INVITE(CON)	+		+	CON				
	ACK →								
			Convers	ation					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		←	RLC				

TP404007	SIP reference: RFC	3261	[4]			SUP reference:		
						12.5 [1], clause B.2,		
				Q.	.731	[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 number transferred	er, ada	litional conn	ected num	nber a	and connected subaddress		
	Ensure that an ANM or CON without changing. The connected sub address is in	ected r	number is ur					
SIP parameter	200 OK INVITE: encapsulate			cluded				
values	200 OK INVITE. encapsulati	cu Aivi	vi di dola ii	iciaaca				
ISUP parameter	ANM;							
values	Connected number parame	eter						
	Address presentation restric		rameter = 'C)1'B				
	Nature of address indicator :							
	Numbering plan indicator = '	001'B						
	Screening indicator = '11'B							
	Address signals = PIXIT							
	Additional connected num							
	Address presentation restric)1'B				
	Nature of address indicator)011'B					
	Numbering plan indicator = '	001'B						
	Screening indicator = '00'B							
	Address signals = PIXIT and an access transport pa	aramet	er containin	a the conn	octo	d sub-address		
	b)	aramet	ei containin	g the com	iecie	u sub-auuress.		
	CON;							
	Connected number parame	eter						
	Address presentation restric		rameter = 'C)1'B				
	Nature of address indicator :							
	Numbering plan indicator = '	001'B						
	Screening indicator = '11'B							
	Address signals = PIXIT							
	Additional connected num							
	Address presentation restric)1'B				
	Nature of address indicator)U11'B					
	Numbering plan indicator = '	001'B						
	Address signals – PIXIT							
	Address signals = PIXIT and an access transport pa	aramet	er containin	a the conn	necte	d sub-address		
Comments	ISUP	arainel	SU1		10010	SIP-I		
Comments	IAM	→	301		→	INVITE(IAM)		
	CASE A		<u> </u>		-			
	ACM	+			-	180 Ringing(ACM)		
	ANM	`			`	200 OK INVITE(ANM)		
					<u>`</u>	ACK		
	CASE B		<u> </u>			p		
	CON	+			-	200 OK INVITE(CON)		
		-			<u>`</u>	ACK		
			Convers		-	- 1 - 1		
	REL	→			→	BYE(REL)		
	RLC					200 OK BYE(RLC)		
	· ·=		L					

5.3.5 Terminal Portability (TP)

TP405001	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)			
SIP selection					
criteria					
ISUP selection criteria					
Test purpose	Terminal portability, I Ensure that SUT inforr requested by the callin	ns the called	party that a sus	spend and	a resume have been
SIP parameter values	INFO: Content-Type: a	application/IS	SUP; SUS and R	RES encap	sulated in the MIME body
ISUP parameter values					
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	←		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversation	n	
	SUS	→		→	INFO(SUS)
				+	200 OK INFO
	RES	→		→	INFO(RES)
				+	200 OK INFO
	REL	→		→	BYE(REL)
	RLC	←		+	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 pare	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	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversation	ո	
	SUS	+		+	INFO(SUS)
				→	200 OK INFO
	RES	+		←	INFO(RES)
				→	200 OK INFO
	REL	→		→	BYE(REL)
	RLC	←		+	200 OK BYE(RLC)

TP405003	SIP reference: RFC	3261	[4]		ISUP reference: 12.5 [1], clause B.13, i3 [i.6], clause 4.5.2.1			
TSS reference	ISUP-SIP-ISUP/SS/TP							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Terminal portability, requestions that the call is releatimer T2 expires because the	sed wit	h cause #10	02 (recovery o	n timer expiry) by the SUT if			
SIP parameter values	INFO: Content-Type: applic	INFO: Content-Type: application/ISUP; SUS encapsulated in the MIME body BYE: Content-Type: application/ISUP; REL encapsulated in the MIME body						
ISUP parameter			, , , , , , , , ,		,			
values								
Comments	ISUP		SU.	Т	SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Convers	ation				
	SUS	→		→	INFO(SUS)			
				+	200 OK INFO			
	REL	→		→	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	oe 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: applica	ation/IS	SUP; REL en	capsulated in	the MIME body				
ISUP parameter									
values									
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
		Conversation							
	SUS	→		→	INFO(SUS)				
				+	200 OK INFO				
	REL	-		+	BYE(REL)				
	RLC	→		→	200 OK BYE(RLC)				

5.3.6 SUB-addressing (SUB)

TP406001	SIP refere	nce: RFC 3261 [4]	Q.19	SUP reference: 12.5 [1], clause B.5, [i.2], clause 8.5.2.1.1
TSS reference:	ISUP-SIP-ISUP/S	S/SUB			
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Sending the called	d sub-address in th	ne access trans	port para	meter
SIP parameter values ISUP parameter values	parameter in the e	encapsulated IAM.	ed, Content-Ty	pe: applic	cation/ISUP , Content-Type:
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	(+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
		,	Conversation	1	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP406002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause B.5, Q.731 [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-a Ensure that the SUT can i parameter in the ISUP IAN	nclude t						
SIP parameter values								
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversation	n				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP406003	SIP reference: RFC	3261	[4]		ISUP reference:
				Q.19)12.5 [1], clause B.5,
				Q.731	[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	lress in	the access	transport para	ameter
	Ensure that the SUT can inc	clude th	ne calling su	b-address in t	he access transport
	parameter in the encapsular	ted IAN	1.		
SIP parameter					cation/ISUP multipart/mixed,
values		SUP, C	Content-Typ	e: application/	ISUP; IAM encapsulated in the
	MIME body				
ISUP parameter					
values					
Comments	ISUP		SUT	Г	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		←	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP406004	SIP reference: RF0	3261	[4]			SUP reference:
						l2.5 [1], clause B.5,
				G	2.731	[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-a	ddress	in the acces	s transpo	ort par	ameter
	Ensure that the SUT can in parameter in the ISUP IAM		ne calling su	b-addres	s in th	e access transport
SIP parameter						
values						
ISUP parameter						
values						
Comments	SIP-I		SUT			ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

5.3.7 Malicious Call Identification (MCID)

TP407001	SIP reference	e: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause B.4, 731.7 [i.3], clause 7.5.2.1.1			
TSS reference:	ISUP-SIP-ISUP/SS/N	ICID						
SIP selection								
criteria								
ISUP selection criteria								
Test purpose	Successful MCID req	uest O-MGCF						
	Ensure that the SUT can successfully pass on a 183 Session Progress containing an encapsulated IDR having the MCID request indicator set to "MCID request" and pass on an IRS with MCID response indicator set to "MCID included" and the calling party number included. ISUP to SIP-I interworking.							
SIP parameter values	183 Session Progres body INFO: Content-Type:				IDR encapsulated in the MIME and 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	+		•	100111191119			
	ANM	+		•	200 OK INVITE(ANM)			
				-	ACK			
			Conversa	tion				
	REL	→		-	\ /			
	RLC	←		•	- 200 OK BYE(RLC)			

TP407002	SIP reference: RFC 32	261 [4]				SUP reference:		
					Q.19	12.5 [1], clause B.4,		
				C	1.731.7	7 [i.3], clause 7.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/MCID					L 1 /		
SIP selection criteria								
ISUP selection criteria								
Test purpose	Successful MCID request I-MC	GCF						
	set to "MCID request" and pas	Ensure that the SUT can successfully 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 included" and the calling party number included. SIP-I to ISUP interworking.						
SIP parameter	183 Session Progress: Conten	nt-Type:	applicat	ion/ISUF	; IDR	encapsulated in the MIME		
values	body							
	INFO: Content-Type: application	on/ISUF	P; IRS er	ncapsulat	ted in	the MIME body		
ISUP parameter values								
Comments	SIP-I		SI	JT		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress(IDR)	+			+	IDR		
	INFO(IRS)	→			→	IRS		
	200 OK INFO	+						
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Conve	rsation				
	BYE(REL)	→		-	→	REL		
	200 OK BYE(RLC)	+			+	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	Successful MCID request - 2	ftor AC	N/I							
rest 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 reduction of the set of th								
SIP parameter	INFO: Content-Type: application					the MIME body				
values	INFO: Content-Type: application									
ISUP parameter values	IRS containing the calling party					,				
Comments	SIP-I		S	UT		ISUP				
	INVITE(IAM)	→			→	IAM				
	CASE À					•				
	180 Ringing(ACM)	+			+	ACM				
	183 Session Progress(IDR)	+			+	IDR				
	INFO(IRS)	→			→	IRS				
	200 OK INFO	+								
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	→								
	CASE B					•				
	183 Session Progress(ACM)	+			←	ACM(early)				
	183 Session Progress(IDR)	+			←	IDR				
	INFO(IRS)	→			→	IRS				
	200 OK INFO	+								
	180 Ringing(CPG)	+			+	CPG(alerting)				
	200 OK INVITE(ANM)	(+	ANM				
	ACK	→								
			Conve	rsation						
	BYE(REL) → REL									
	200 OK BYE(RLC)	+			+	RLC				
NOTE: This situa	ation may occur e.g. if the call ha	s been	forward	ed befor	e reach	ning the destination.				

TP407004	SIP reference: RFC	3261	[4]		ISUP reference: 1912.5 [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 i	n 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	tion	
	REL	↑		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP407005	SIP reference: RFC 3	261 [4]		Q.19	SUP 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 sen	ding an I	
SIP parameter	183 Session Progress: Conter	it-Type:	application/IS	UP; IDR	encapsulated in the MIME
values	body INFO: Content-Type: application	on/ISUI	P: IRS encapsi	ulated in	the MIME body
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	183 Session Progress(IDR)	+		+	IDR
	INFO(IRS)	→		→	IRS
	200 OK INFO	+			
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversatio	n	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP407006	SIP reference: RFC 32	:61 [4]		Q.19	ISUP reference: 912.5 [1], clause B.4, 7 [i.3], clause 7.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/MCID			Q./31.	7 [1.5], Clause 7.5.2.1.1		
SIP selection	1001 -011 -1001 /00/10010						
criteria							
ISUP selection	PICS 1/7						
criteria							
Test purpose SIP parameter values	 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": the IDR request is transferred into the national network; the IRS is received from the national network having the calling party number coded as an "international number". Calling party sub-address in ATP. 183 Session Progress: Content-Type: application/ISUP; IDR encapsulated in the MIME body 						
ISUP parameter values	INFO: Content-Type: application	n/150P;	iks encap	sulated in	the Milvie body		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress(IDR)	+		+	IDR		
	INFO(IRS)	→		→	IRS		
	200 OK INFO	+					
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Conversat	ion			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP407007	SIP reference: RFC	3261		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 request indicator se	ccessf t to "M uded", t	ully reply to an 18 CID request" by s he calling party	33 Sess sending numbe	ion Progress (IDR) having the an IRS with MCID response and a calling sub-address in			
SIP parameter values	183 Session Progress: Con body INFO: Content-Type: applic	-			R encapsulated in the MIME			
ISUP parameter values	у по		,					
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			
			Conversation					
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP407008	SIP reference: RFC 32		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 can succe set to "MCID request" by send	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. SIR-L to ISLIP interworking							
SIP parameter values	183 Session Progress: Content body INFO: Content-Type: application								
ISUP parameter values									
Comments	SIP-I		SU	Т		ISUP			
	INVITE(IAM)	→			→	IAM			
	183 Session Progress(IDR)	+			+	IDR			
	INFO(IRS)	→			→	IRS			
	200 OK INFO	←							
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	←			←	ANM			
	ACK	→							
			Conver	sation					
	BYE(REL)	→			→	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		ntinued	(user is ale		RS is received within timer T39 ator set to "MCID requested".
SIP parameter	183 Session Progress: Con	tent-Ty	pe: applicat	ion/ISUP; ID	R encapsulated in the MIME
values	bodyMIME body	-			•
ISUP parameter					
values					
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	IDR	+		+	183 Session Progress(IDR)
				T39 e	expiry
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversa	tion	
	REL	→		→	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-M Ensure that call setup is contin expiry, after having sent the ID SIP-I to ISUP interworking.	ued (us R with l	MCID request	indicate	or set to "MCID requested".			
SIP parameter values	183 Session Progress: Conterbody INFO: Content-Type: application	• •			•			
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	183 Session Progress(IDR)	+		+	IDR			
				T39 (expiry			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversation	1				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

5.3.8 Call hold (HOLD)

TP408001	SIP reference: RF0	SIP reference: RFC 3261 [4]			SUP reference: I2.5 [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	
SID parameter	messages having the even	t indica	ntor set to "	progress". O-M	retrieved are sent with CPG IGCF interworking. cation/ISUP multipart/mixed,
SIP parameter values	Content-Type: application/l				
values	the MIME body	30F, C	ontent-Type	e. application/i	SOF, CFG encapsulated in
ISUP parameter values	and Minute Body				
Comments	ISUP		SU	Γ	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	←		-	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	CPG(progress, hold)	→		→	INVITE(CPG, sendonly)
				-	200 OK INVITE(recvonly)
				→	ACK
	CPG(progress, retrieve)	→		→	INVITE(CPG, sendrecv)
				←	200 OK INVITE(sendrecv)
				→	ACK
	REL	→		→	BYE(REL)
	RLC	←		←	200 OK BYE(RLC)

TP408002	SIP reference: RFC	3261	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 k	y the origin	nating user	
SIP parameter	Ensure that the notifications messages having the event INVITE: Content-Type: mult	t indica	tor set to "	progress". I-M0	
values	encapsulated in the MIME b		ixea, conte	ли турс. арри	ation/1881 , St S
ISUP parameter values		,			
Comments	SIP-I		SU	Γ	ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Convers	ation	
	INVITE(CPG, sendonly)	→		→	CPG(progress, hold)
	200 OK INVITE(recvonly)	+			
	ACK	→			
	INVITE(CPG, sendrecv)	→		→	CPG(progress, retrieve)
	200 OK INVITE(sendrecv)	+			
	ACK	→			
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	←		-	RLC

TP408003	SIP reference: RF	C 3261		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, req	uested k	y the terminatin	g user			
	messages having the ever	nt indica	tor set to "progr	ess". O-M			
SIP parameter values	INVITE: Content-Type: mu encapsulated in the MIME		ixed, Content-Ty	/pe: applic	cation/ISUP; CPG		
ISUP parameter values							
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			Conversation	1			
	CPG(progress, hold)	+		+	INVITE(CPG, sendonly)		
				→	200 OK INVITE(recvonly)		
				+	ACK		
				_			
	CPG(progress, retrieve)	+		+	INVITE(CPG, sendrecv)		
				→	200 OK INVITE(sendrecv)		
				+	ACK		
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP408004	SIP reference: RFC	3261	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 k	y the termii	nating user		
SIP parameter	Ensure that the notifications messages having the event INVITE: Content-Type: mult	indica	tor set to "p	orogress". I-M		
values	encapsulated in the MIME b		·	7	·	
ISUP parameter values		•				
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	→		→	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	→				
			Convers	ation		
	INVITE(CPG, sendonly)	+		+	CPG(progress, hold)	
	200 OK INVITE(recvonly)	→				
	ACK	+				
	INVITE(CPG, sendrecv)	←		+	CPG(progress, retrieve)	
	200 OK INVITE(sendrecv)	→				
	ACK	←				
	BYE(REL)	→		→	REL	
	200 OK BYE(RLC)	←		←	RLC	

TP408005		IP reference: RFC 3261 [4], RFC 3311 [10], clause 5.1			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	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
				→	PRACK		
				+	200 OK PRACK		
	CPG(progress, hold)	→		→	UPDATE(CPG, sendonly)		
				+	200 OK UPDATE(recvonly)		
	CPG(progress, retrieve)	→		→	UPDATE(CPG, sendrecv)		
				-	200 OK UPDATE(sendrecv)		
	ANIM						
	ANM	+		←	200 OK INVITE(ANM)		
			Convers		ACK		
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP408006		SIP reference: RFC 3261 [4], RFC 3311 [10], clause 5.1			ISUP reference: Q.1912.5 [1], table B.10-2, .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 outgoi established and retrieved at I-MGCF interworking.	ng call	is placed or	n hold before t				
SIP parameter values	INVITE: Supported: 100 rel; UPDATE: Content-Type: m encapsulated in the MIME b	ultipart	/mixed, Con	tent-Type: app	olication/ISUP; CPG			
ISUP parameter values		-						
Comments	SIP-I		SU	Γ	ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	PRACK	→						
	200 OK PRACK	+						
	UPDATE(CPG, sendonly)	→		→	CPG(progress, hold)			
	200 OK UPDATE(recvonly)	+						
	UPDATE(CPG, sendrecv)	→		→	CPG(progress, retrieve)			
	UPDATE(sendrecv)							
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→	Convers	ation				
	BYE(REL)	→		<u>→</u>	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP408007	SIP reference: R	FC 3261	[4]	Q.19	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, Ensure that a call in the h service. O-MGCF interwo	neld state			served user ser who activated the Call hold
SIP parameter	INVITE: Content-Type: m	nultipart/m	ixed, Conte	nt-Type: appli	cation/ISUP; CPG
values	encapsulated in the MIMI	E body			
ISUP parameter					
values					
Comments	ISUP		SUT	Γ	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	CPG(progress, hold)	→		→	INVITE(CPG, sendonly)
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			+	200 OK INVITE(recvonly)
				→	ACK
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP408008	SIP reference: RF0	3261	41			ISUP reference:
			•	Q	.19 ⁻	12.5 [1], table B.10-2,
						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, re	lease o	f the call b	y the callii	ng s	served user
	Ensure that a call in the hel service. I-MGCF interworking		can be rele	ased by the	e us	er who activated the Call hold
SIP parameter	INVITE: Content-Type: mul		ixed. Conte	nt-Type: a	oilaa	cation/ISUP: CPG
values	encapsulated in the MIME I		,	711		,
ISUP parameter	•					
values						
Comments	SIP-I		SU	Г		ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			←	ACM
	200 OK INVITE(ANM)	+			←	ANM
	ACK	→				
			Convers	ation		
	INVITE(CPG, sendonly)	→			→	CPG(progress, hold)
	200 OK INVITE(recvonly)	+				
	ACK	→				
	DVE (DEL)	\perp				DE!
	BYE(REL)	→			<u>→</u>	REL
	200 OK BYE(RLC)	←			←	RLC

TP408009	SIP reference: R	FC 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/HOLI	D							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Call hold after answer, Ensure that a call in the h Call hold service. O-MGC	neld state	can be released		ing user er who did not activate the				
SIP parameter		INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG							
values	encapsulated in the MIMI	E body.							
ISUP parameter									
values					lein i				
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	←		←	200 OK INVITE(ANM)				
				→	ACK				
			Conversation						
	CPG(progress, hold)	+		+	INVITE(CPG, sendonly)				
				→	200 OK INVITE(recvonly)				
				+	ACK				
	REL	←		→	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	nterwor	king.					
SIP parameter	INVITE: Content-Type: mult	tipart/m	ixed, Content	-Type: applic	cation/ISUP; CPG			
values	encapsulated in the MIME b	ody						
ISUP parameter								
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversat	ion				
	INVITE(CPG, sendonly)	+		+	CPG(progress, hold)			
	200 OK INVITE(recvonly)	→						
	ACK	+						
	BYE(REL)	→		→	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 values		180 Ringing: Require:100 rel UPDATE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG								
Valuoo	encapsulated in the MIMI		Aca, Contont	турс. арг	nication/1001 , of G					
ISUP parameter values										
Comments	ISUP		SUT		SIP-I					
	IAM	→		→	INVITE(IAM)					
	ACM	+		+	180 Ringing(ACM)					
				→	PRACK					
				+	200 OK PRACK					
			Ringing	·						
	CPG(progress, hold)	→		→	UPDATE(CPG, sendonly)					
				+	200 OK UPDATE(recvonly)					
	REL	→		→	BYE(REL)					
	RLC	+		+	200 OK BYE(RLC)					

TP408012	SIP reference: RFC 3261 [4], RFC 3311 [10], clause 5.1			Q.19	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	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: m encapsulated in the MIME to	UPDATE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG								
ISUP parameter values		•								
Comments	SIP-I		SU	Γ	ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	PRACK	→								
	200 OK PRACK	+								
			Ringi	ng						
	UPDATE(CPG, sendonly)	→		→	CPG(progress, hold)					
	200 OK UPDATE(recvonly)	+								
	DVE(DEL)				DEL					
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	←		←	RLC					

5.3.9 Call Waiting (CW)

TP409001	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/C	CW				
SIP selection criteria						
ISUP selection criteria						
Test purpose	Call waiting indication Ensure that a call car waiting call. O-MGCF	n be successful	ly establishe	ed if the ACN	I indicates that it this call a	
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	ting call"		
Comments	ISUP		SUT		SIP-I	
	IAM	→		→	INVITE(IAM)	
	ACM(waiting)	←		+	180 Ringing(ACM)	
	ANM	+		+	200 OK INVITE(ANM)	
				→	ACK	
			Conversat	ion		
	REL	→		→	BYE(REL)	
	RLC	+		+	200 OK BYE(RLC)	

TP409002	SIP reference: RF	C 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	ICM						
	Ensure that a call can be swaiting call. I-MGCF interv		ully establishe	d if the ACN	Indicates that this call is a			
SIP parameter values	180 Ringing: Content-Type	e: applic	ation/ISUP; AC	CM encapsu	lated in the MIME body			
ISUP parameter values	ACM: Generic notification	indicato	r "Call is a wait	ing call"				
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM(waiting)			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	ACK →						
			Conversati	on				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP409003	SIP reference	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/CV	W						
SIP selection criteria								
ISUP selection criteria								
Test purpose	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	180 Ringing: Content-	Type: applica	ation/ISUP;	CPG enca	psulated in the MIME body			
ISUP parameter values	CPG: Generic notifica	tion indicator	"Call is a w	aiting call"				
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	183 Session Progress(ACM)			
	CPG(waiting)	+		+	180 Ringing(CPG)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Conversa	tion				
	REL	→		→	= : =(: <==)			
	RLC	+		-	200 OK BYE(RLC)			

TP409004	SIP reference: RFC 32	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	•	establish	ned if th	ne CPG	indicates that this call is a		
SIP parameter values	180 Ringing: Content-Type: ap		on/ISUP;	CPG e	ncapsul	lated in the MIME body		
ISUP parameter values	CPG: Generic notification indic	ator "C	all is a w	aiting c	all"			
Comments	SIP-I		SU	JT		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress ACM)	+			+	ACM		
	180 Ringing(CPG)	+			+	CPG(waiting)		
	200 OK INVITE(ANM) ← ANM							
	ACK	→						
			Conver	sation	•			
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP409005	SIP reference: F	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	REL with cause	#21 (0	call rejected) if a busy user rejects				
	the waiting call. O-MGCI	F interv	vorking.						
SIP parameter	180 Ringing: Content-Ty	/ре: ар	plication/ISUP; A	CM or	CPG encapsulated in the MIME				
values	body								
	480 Temporarily unavail	able: C	ontent-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	→		→	INVITE(IAM)				
	ACM(waiting)	+		+	180 Ringing(ACM)				
	REL(#21)	←		+	480 Temporarily Unavailable(REL)				
	RLC	→		1	ACK				

TP409006	SIP reference: RFC 3261 [4]			912.	P reference: 5 [1], clause B.9,], 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 w the waiting call. I-MGCF interworking.	ith ca	use #21 (call rej	ecte	d) if a busy user rejects				
SIP parameter	180 Ringing: Content-Type: applicatio	n/ISU	P; ACM or CPG	enca	apsulated in the Message				
values	body 480 Temporarily unavailable: Content MIME body	-Туре	application/ISU	P; R	EL encapsulated in the				
ISUP parameter values	ACM or CPG: Generic notification indi REL: Cause #21 (call rejected)	cator	"Call is a waiting	g call	н				
Comments	SIP-I SUT ISUP								
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	←		+	ACM(waiting)				
	480 Temporarily Unavailable(REL)	+		+	REL(#21)				
	ACK	→		→	RLC				

TP409008	SIP reference: RF	C 3261	[4]		IS	UP reference:		
			_	Q.	.1912	2.5 [1], clause B.9,		
				Q.7	'33 [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 (exp							
						r from user, user alerted) if		
	a busy user does not answ	er the w	aiting call. I	-MGCF inte	rwor	king.		
SIP parameter	180 Ringing: Content-Type: application/ISUP; ACM or CPG encapsulated in the MIME							
values	body							
	480 Temporarily unavailab	le: Conte	ent-Type: a	oplication/IS	SUP;	REL encapsulated in the		
	MIME body							
ISUP parameter	ACM or CPG: Generic noti				ng ca	all"		
values	REL: Cause #19 (no answ	er from ι	user, user a	lerted)				
Comments	SIP-I		SUT		I	SUP		
	INVITE(IAM)	→		-	→ [.	AM		
	180 Ringing(ACM)	+		•	-	ACM(waiting)		
	T9 expiry							
				-	→ F	REL(#19)		
				•	- F	RLC		
	480 Temporarily	+						
	Unavailable							
	ACK	→						

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

TP410001	SIP reference: RI	FC 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	Verify that a call can be s the generic notification and the redirection num. The Redirection reason is CPG (alerting) is coded a O-MCGF interworking.	183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME								
	180 Ringing: Content-Typ	e: applica	ation/ISUP; (CPG encaps	sulated in the MIME body					
ISUP parameter values	ACM: BCI Called party s Generic notificatio Call diversion infor Redirection number CPG: Event indicator=ale	tatus indi n rmation er								
Comments	ISUP		SUT		SIP-I					
	IAM	→		→	INVITE(IAM)					
	ACM(no indication)	+		+	183 Session Progress(ACM)					
	CPG(alerting)	+		+	180 Ringing(CPG)					
	ANM	+		+	200 OK INVITE(ANM)					
				→	ACK					
			Conversat	ion						
	REL	→		→	BYE(REL)					
	RLC	+		+	200 OK BYE(RLC)					

TP410002	SIP reference: RFC 32	61 [4]	Q.1	912.5	SUP reference: [1], clauses B.6 and B.7, 32 [i.4], clause 2.5	
TSS reference	ISUP-SIP-ISUP/SS/Call Diversi	on				
SIP selection criteria						
ISUP selection						
criteria						
Test purpose	"Call is diverting" indication reco Verify that a call can be succes the generic notification indica and the redirection number.	sfully es	tablished, if div			
	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.					
SIP parameter	183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the					
values	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		SUT		ISUP	
	INVITE(IAM)	→		→	IAM	
	183 Session Progress(ACM)	+		+	ACM(no indication)	
	180 Ringing(CPG)	+		+	CPG(alerting)	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	→				
	Conversation					
	BYE(REL)	→		→	REL	
	200 OK BYE(RLC)	←		←	RLC	

CV_redirection_reason, TP410001, TP410002				
VA_1	User busy			
VA_2	Unconditional			
VA_3	Deflection immediate response			

TP410003	SIP reference: RF	C 3261	[4]		ISUP reference: .5 [1], clauses B.6 and B.7, 32 [i.4], clause 2.5.2.1.1	
TSS reference	ISUP-SIP-ISUP/SS/Call D	ISUP-SIP-ISUP/SS/Call Diversion				
SIP selection						
criteria						
ISUP selection						
criteria	10.11.11			D: : /4.01		
SIP parameter	"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. 180 Ringing: Content-Type: application/ISUP; ACM encapsulated in the MIME body					
values	body	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		SUT		SIP-I	
	IAM	→		→	INVITE(IAM)	
	ACM(free)	+		+	180 Ringing(ACM)	
	CPG	+		+	183 Session Progress(CPG)	
	CPG(alerting)	+		+	183 Session Progress(CPG)	
	ANM	+		+	200 OK INVITE(ANM)	
				→	ACK	
		Conversation				
	REL	→		→	BYE(REL)	
	RLC	+		+	200 OK BYE(RLC)	

TP410004	SIP reference: RFC 326	1 [4]		ISUP reference:		
				5 [1], clauses B.6 and B.7,		
			Q.73	2 [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 ACM					
	Verify that a call can be success					
	indicates that "call diversion may					
	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).					
SIP parameter	I-MCGF interworking. 180 Ringing: Content-Type: application/ISUP; ACM encapsulated in the MIME body					
values	183 Session Progress: Content-					
values	body	турс. аррію	allori/1001 , Of	o encapsulated in the MilML		
ISUP parameter	ACM: BCI Called party status in	dicator "sub	scriber free". C	Optional backward call indicator:		
values	"Call diversion may occur		, ,			
	CPG: Event information=progress, Call diversion information; Generic notification;					
	Redirection number					
	CPG: Event information=alerting					
Comments	SIP-I		SUT	ISUP		
	INVITE(IAM)	→	→	17 1141		
	180 Ringing(ACM)	-	(ACM(free)		
	183 Session Progress(CPG)	-	(0. 0		
	183 Session Progress(CPG)	-	←	- · · · (
	200 OK INVITE(ANM)	-	←	ANM		
	ACK	→				
	Conversation					
	BYE(REL)	→	→			
	200 OK BYE(RLC)	←	(RLC		

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

TP410005	SIP reference: RF	C 3261	[4]		ISUP reference:						
					5 [1], clauses B.6 and B.7,						
				Q.	732 [i.4], clause 2.4.2						
TSS reference	ISUP-SIP-ISUP/SS/Call Di	version									
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	Multiple diversions -Verif diversion occur	Multiple diversions -Verify that a call can be successfully established, if multiple									
		ntoinin	المم مطايع	varalan infa	rmation are received, as if						
	multiple forwardings have of			version inio	illiation are received, as if						
	The CV_redirection_reas			action reason							
	The Redirection number re										
	O-MCGF interworking.	3111011011	parameter	io passea on							
SIP parameter		ntent-Ty	pe: applicat	ion/ISUP; AC	CM encapsulated in the MIME						
values	body										
		ntent-Ty	pe: applicat	ion/ISUP; CF	PG encapsulated in the MIME						
	body										
	180 Ringing: Content-Type				sulated in the MIME body						
ISUP parameter	ACM: BCI Called party sta	itus indi	cator "No in	dication"							
values	Generic notification										
	Call diversion inform		dedirection r	eason uncon	ditional						
	Redirection number										
	CPG1: Event information=p	orogress	3								
	Generic notification	+: D		()/ "-	direction record						
	Call diversion inform		edirection r	eason Cv_re	edirection_reason						
	Redirection number Redirection number		ion								
	CPG2: Event information=a			number reet	riotion						
Comments	ISUP	l l	SUT		SIP-I						
Comments	IAM	→	301	→	INVITE(IAM)						
	ACM(no indication)	-		+	183 Session Progress(ACM)						
	CPG1	+		`	183 Session Progress(CPG)						
	CPG2(alerting)	+		-	180 Ringing(CPG)						
	ANM	+		\	200 OK INVITE(ANM)						
	7 11 4141	+		→	ACK						
			Conversa	_	, tort						
	REL	→	303100	}	BYE(REL)						
	RLC	+		(200 OK BYE(RLC)						

TP410006	SIP reference: RFC 3261	1 [4]		O 1912 F	ISUP reference: [1], clauses B.6 and B.7,						
					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 diversion occur	a call	can be su	ccessful	ly established, if multiple						
	Several messages each containir	na the	call divers	sion infor	mation are received, as if						
	multiple forwardings have occurre										
	The CV_redirection_reason is u		s redirectio	n reason.							
	The Redirection number restriction	n para	meter is p	assed on.							
	I-MCGF interworking.										
SIP parameter	183 Session Progress: Content-T	ype: a	pplication/	ISUP; AC	M encapsulated in the MIME						
values	body										
	183 Session Progress: Content-T	ype: a	pplication/	ISUP; CP	G encapsulated in the MIME						
	body		(IOLID OD)	_							
IOLID (180 Ringing: Content-Type: appli				ulated in the MIME body						
ISUP parameter values	ACM: BCI Called party status inc Generic notification	dicator	"No indica	ition"							
values	Call diversion information	Dodire	oction room	an uncon	ditional						
	Redirection number	Redire	cuon reasi	JII UIICOIIC	niionai						
	CPG: Event information=progres	ss									
	Generic notification	50									
	Call diversion information	Redire	ction reas	on CV re	direction reason						
	Redirection number			_	_						
	Redirection number restric	ction									
	CPG: Event information=alerting	j, Redi	rection nur	nber restr	riction						
Comments	SIP-I		SUT		ISUP						
	\ /	→		→	IAM						
		←		+	ACM(no indication)						
	100 00001011 10g1000(01 0)	←		+	CPG1						
	100 11119119(01 0)	←		+	CPG2(alerting)						
		(+	ANM						
	ACK	→									
			Conversat								
	- : = (: ·==)	→		→	REL						
	200 OK BYE(RLC)	←		←	RLC						

CV_redirection	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						

Sup-silvation Sup-silvatio	TP410007	SIP reference: RFC	3261 [4]				SUP reference:
TSS reference ISUP-SIP-ISUP/SS/Call Diversion SIP selection criteria ISUP selection criteria Test purpose 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); redirecting 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 MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body 1AM: Redirection address restriction SIP-I IAM							
SIP selection criteria ISUP selection criteria Test purpose 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. 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 Comments 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) ACK CASE B CON ← 200 OK INVITE(CON) → ACK CONVERSATION REL → BYE(REL) € 200 OK BYE(RLC)					Q.7	732	[i.4], clause 2.5.2.2.1
Superior		ISUP-SIP-ISUP/SS/Call Div	ersion				
ISUP selection criteria 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:							
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 MIME body 20 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 IAM: SUT ISIP-I IAM: SUT INVITE(IAM) CASE A ACM:	lest purpose	Notification procedures for a	a diverting	ı call - aft	er the diver	rting	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 SIP-I IAM SUNTE(IAM) CASE A ACM FIRST Session Progress(ACM,no indication) CPG FIRST SIRST SIR							
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 SUP IAM ACM SUT SIP-I IAM ACM FINVITE(IAM) CASE A ACM FORGERS(ACM,no indication) CPG ANM ACK CASE B CON CASE B CON CONVETSATION ACK CONVETSATION BYE(REL) REL BYE(REL) FILE BYE(REL) FINVITE(LON)		diversion) all the diversion ii	nformatior	n from the	e diverting e	exch	ange.
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 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 CASE B CON ← PACK CONVErsation REL → BYE(REL) REL → BYE(REL) REC ← 200 OK BYE(RLC)			e following	g signallir	ng informati	on is	s 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 IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction 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) REC ← 200 OK BYE(RLC)							
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 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 IAM: SIP-I IAM: SIP				ee note),			
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 SUT SIP-I IAM				n sianallir	na informati	on is	s passed on in the backward
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 SUT SIP-I IAM			J TOHOWING	y Signaiii	ig illionnau	OII IC	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 ISUP SUT SIP-I IAM			ber restri	ction pa	rameter (in	ACN	//CPG/ANM/CON).
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					(.,
encapsulated in the MIME body 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 IAM CASE A ACM CASE A ACM CPG ANM CPG ANM	SIP parameter	INVITE: Content-Type: mult	ipart/mixe	d, Conte	nt-Type: ap	plica	ation/ISUP; IAM
ISUP parameter values	values	encapsulated in the MIME b	ody			•	
IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction				oart/mixe	d, Content-	Туре	e: application/ISUP; ANM
ANM: Redirection address restriction							
ISUP	-				mber, Redir	ectio	on information
IAM → → INVITE(IAM) CASE A ← 183 Session Progress(ACM,no indication) 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)			restriction				
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			SUT			
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)			→		-	<u>→</u>	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)			1				
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)		ACM	-		1	←	
ANM ←			_				Progress(ACM,no indication)
CASE B ← 200 OK INVITE(CON) CON ← 200 OK INVITE(CON) ACK Conversation 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					•	→	ACK
Conversation REL → BYE(REL) RLC ← 200 OK BYE(RLC)							
Conversation REL → BYE(REL) RLC ← 200 OK BYE(RLC)		CON	+				
REL → BYE(REL) RLC ← 200 OK BYE(RLC)						→	ACK
RLC ← 200 OK BYE(RLC)				Convers			
NOTE: Altered in Gateways.			←		•	-	200 OK BYE(RLC)
	NOTE: Altered in	Gateways.					

TP410008	SIP reference: RF	C 3261	[4]		ISUP reference:			
					5 [1], clauses B.6 and B.7,			
				Q.73	2 [i.4], clause 2.5.2.2.1			
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion						
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Notification procedures for	a divert	ing call - af	ter the divertin	ng 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	ıltinart/m	ived Conte	nt-Type: appl	ication/ISLID: IAM			
values	encapsulated in the MIME		iixea, conte	пт-туре. аррг	ication/1301 , IAW			
Values			ıltinart/mixe	d Content-Tv	pe: application/ISUP; ANM			
	encapsulated in the MIME			u, 000 ,	po: app			
ISUP parameter	IAM: Redirecting number	r. Origin	al called nu	mber. Redired	ction information			
values	ANM: Redirection address	s restrict	ion					
Comments	SIP-I		SU	Г	ISUP			
	INVITE(IAM)	→		→	IAM			
	CASE À			•	•			
	183 Session	+		+	ACM(no indication)			
	Progress(ACM)				,			
	180 Ringing(CPG)	+		+	CPG(alerting)			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
	CASE B				•			
	200 OK INVITE(CON)	+		+	CON			
	ACK	→						
			Convers	ation				
	BYE(REL)	→	1	→	REL			
	200 OK BYE(RLC)	+		+	RLC			
NOTE: Altered in	n Gateways.		1		10.000			
	. Jaionajo.							

TP410009	SIP reference: RF	C 3261	[4]	0.404	-	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			.,	[1.2], clause 0.0.2.4.1			
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 values	INVITE: Content-Type: mu an Original called number					ation/ISUP; IAM containing			
ISUP parameter values	IAM: No original called nur				<u>-) </u>				
Comments	SIP-I		SUT			ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			←	ACM			
	200 OK INVITE(ANM) ← ← ANM								
	ACK	→							
		Conversation							
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+			+	RLC			

TP410010	SIP reference: RF	C 3261	[4]		I:	SUP reference:			
				Q.191	2.5	[1], clauses B.6 and B.7,			
				Q.	731	[i.2], clause 4.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/Call Di	version							
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Original called number in								
						nipulates the original called			
	number according to the p								
	Converting the origina					rmat with transparent			
	transferral of address p								
	The PTC will send an IAM								
SIP parameter						ation/ISUP; IAM containing			
values	an Original called number				the	MIME body			
ISUP parameter values	IAM: Original called number	er "Interr	national nun	nber"					
Comments	SIP-I		SU			ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			(ACM			
	200 OK INVITE(ANM)	+			(ANM			
	ACK →								
	Conversation								
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+			(RLC			

TP410011	SIP reference: RFC	3261	[4]		Į,	SUP reference:			
				Q.191	2.5	[1], clauses B.6 and B.7,			
				Q.	731	[i.2], clause 4.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion/							
SIP selection									
criteria									
ISUP selection	PICS 1/7								
criteria									
Test purpose	Original called number in								
						nipulates the original called			
	number according to the pi								
	Discarding the original								
	The PTC will send an IAM v	with an	"address no	t available	" Ori	CdNb.			
SIP parameter	INVITE: Content-Type: mul-								
values	an Original called number of	alled n	umber enca	psulated in	the	MIME body			
ISUP parameter	IAM: No original called num	ber pre	esent						
values									
Comments	SIP-I		SU			ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			←	ACM			
	200 OK INVITE(ANM)	+			(ANM			
	ACK →								
	Conversation								
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+			(RLC			

TP410012	SIP reference: RF	C 3261	[4]		5 [1	UP reference:], clauses B.6 and B.7, .2], clause 4.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/Call Di	version				
SIP selection						
criteria						
ISUP selection criteria	PICS 1/8					
Test purpose	number according to the p	ernatior rocedur	nal gateway es as define	checks and red for CLIP. A	man Appl	ipulates the original called
SIP parameter values	INVITE: Content-Type: mu an Original called number					
ISUP parameter values	IAM: Original called number					
Comments	SIP-I		SUT	•	Į.	SUP
	INVITE(IAM)	→		→	L	AM
	180 Ringing(ACM)	+		←	- /	ACM
	200 OK INVITE(ANM)	+		+	P	NMA
	ACK	→				
			Conversa	ation		
	BYE(REL)	→		→	F	REL
	200 OK BYE(RLC)	+		-	F	RLC

TP410013	SIP reference: RF	C 3261	[4]		_	SUP reference:
						[1], clauses B.6 and B.7,
				C	<u>1.731</u>	[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 th	e outgo	oing interna	ational ga	tewa	у
	Verify that the outgoing int	ernation	al gateway	checks ar	nd ma	nipulates the redirecting
	number according to the p	rocedur	es as define	ed for CLI	P:	_
	Discarding the redirec	ting nur	nber if case	e of bilater	al ag	reements.
SIP parameter	INVITE: Content-Type: mu	ıltipart/m	ixed, Conte	nt-Type: a	applic	ation/ISUP; IAM containing a
values	Redirecting number encap	sulated	in the MIME	body		_
ISUP parameter	IAM: No Redirecting numb	er prese	ent			
values						
Comments	SIP-I		SU ⁻	Τ		ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			←	RLC

TP410014	SIP reference: RF	C 3261	[4]		912.5	SUP reference: [1], clauses B.6 and B.7, [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	Redirecting number in the Verify that the outgoing intended number according to the publicarding the redirectory. The PTC will send an IAM	ernation procedur ting nur	al gateway of es as define nber, if the a	checks a d for CL address	nd ma IP: is mar	nipulates the redirecting ked not available.
SIP parameter						ation/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		SUT			ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Conversa	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

TP410015	SIP reference: RF	C 3261	[4]		ISUP reference	•		
					5 [1], clauses B			
					32 [i.4], clause :			
				Q.7	31 [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	Redirecting number in t	he outgo	oing interna	tional gatev	vay			
	Verify that the outgoing in				nanipulates the i	redirecting		
	number according to the							
	Converting the redired				nat with transpa	rent transferral		
	of address presentation							
	The PTC will send an IAM							
SIP parameter	INVITE: Content-Type: m					M containing a		
values	Redirecting number "Nation	onal num	ber" encaps	sulated in the	MIME body			
ISUP parameter	IAM: Redirecting number	"Internati	ional numbe	r"				
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM) ← ANM							
	ACK	→						
			Convers	ation		·		
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP410016	SIP reference: RF	C 3261	[4]		12.5 Q.732	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 Di	version				
SIP selection criteria						
ISUP selection criteria	PICS 1/8					
Test purpose	Redirecting number in th Verify that the incoming int number according to the p Converting the redirect code). The PTC will send an IAM	ernatior rocedur ting nu	nal gateway res as define mber to nati	checks a ed for CLI	nd ma P:	
SIP parameter						ation/ISUP; IAM containing a
values	Redirecting number "Intern			capsulate	d in th	ne MIME body
ISUP parameter values	IAM: Redirecting number "	national	number"			
Comments	SIP-I		SUT	•		ISUP
	INVITE(IAM)	→			1	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			4	ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

TP410017	SIP reference: RF	C 3261	[4]		ISUP reference:
				Q.1912.	5 [1], clauses B.6 and B.7,
					32 [i.4], clause 2.5.2.3,
				Q.7	31 [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				
					manipulates the redirecting
	number according to the p				
	Adding a prefix to an ir			ing number.	
	The PTC will send an IAM				
SIP parameter					lication/ISUP; IAM containing a
values	Redirecting number encap	sulated	in the MIME	body	
ISUP parameter	IAM: Redirecting number				
values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	17 (14)
	180 Ringing(ACM)	+		←	7.0
	200 OK INVITE(ANM)	+		←	ANM
	ACK	→			
			Convers	ation	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP410018	SIP reference: R	,	[4]	Q.7	ISUP reference: .5 [1], clauses B.6 and B.7, 732 [i.4], clause 2.5.2.4, 731 [i.2], clause 3.5.2.4
TSS reference	ISUP-SIP-ISUP/SS/Call	Diversion			
SIP selection criteria					
ISUP selection criteria	PICS 10/5 AND PICS 1/8	8			
Test purpose	Redirection number in Verify that the incoming inumber according to the discarding the redirect removes the redirect	internation procedur ction nun	al gateway es defined f nber in case	checks and for COLP: e of bilateral	manipulates the redirection agreements;
SIP parameter values	number encapsulated in 200 OK INVITE: Content	the MIME t-Type: mu	body lltipart/mixe	d, Content-T	CM containing a Redirection Type: application/ISUP; ANM capsulated in the MIME body
ISUP parameter values	ACM: Called party statu Generic notificatio Call diversion info No Redirection no ANM: No Redirection no	on ormation R umber	edirection r		nditional
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM(no indication)	+		+	183 Session [i.4] Progress(ACM)
	CPG	+		+	180 Ringing(CPG)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversa		
	REL	→		→	BYE(REL)
	RLC	(+	200 OK BYE(RLC)

TP410019	SIP reference: RF0		[4]	Q.	Q.73	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	number according to the process Converting the redirect code): 1. the PTC will provide the	ernation rocedur ion nui	al gateway es defined f nber to nat sary stimulu	checks for COL ional fo	and m P: ormat, i	nanipulates the redirection if necessary (own country ernational RnNb with own CC.
SIP parameter						CM containing a Redirection
values	number "International numb					
ISUP parameter	ACM: Called party status=r	o indica	ation			•
values	Generic notification Call diversion inform Redirection number				uncon	ditional
Comments	ISUP		SUT			SIP-I
	IAM	→			→	INVITE(IAM)
	ACM(no indication)	+			+	183 Session Progress(ACM)
	CPG	+			+	180 Ringing(CPG)
	ANM	+			+	200 OK INVITE(ANM)
					→	ACK
			Conversa	ation		
	REL	→			→	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP410020	SIP reference: RFC	3261	[4]	Q.73	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 1/8				
Test purpose	Redirection number in the Verify that the incoming inte number according to the pro- Converting the redirection	rnation ocedur	al gateway che es defined for	ecks and n COLP:	nanipulates the redirection
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				ditional
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM(no indication)	(+	183 Session Progress(ACM)
	CPG	+		+	180 Ringing(CPG)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversatio	n	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP410021	SIP reference: R		[4]		ISUP reference: 1.5 [1], clauses B.6 and B.7, 31 [i.2], clause 5.5.2.3.1			
TSS reference	ISUP-SIP-ISUP/SS/Call	Diversion						
SIP selection criteria								
ISUP selection criteria	PICS 1/8 AND PICS 10/6	5						
Test purpose	number according to the Adding a prefix to an	nternation procedur internation necessar	al gateway o es defined fo nal redirecti y stimulus.A	checks and or COLP: on number CM with CE	manipulates the redirection			
SIP parameter					CM containing a Redirection			
values	number "International nu	mber" enc	apsulated in	the MIME	body			
ISUP parameter values	Generic notification Call diversion info	ACM: Called party status=no indication Generic notification Call diversion information Redirection reason unconditional Redirection number Number with Prefix						
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM(no indication)	+		+	183 Session Progress(ACM)			
	CPG	+		+	180 Ringing(CPG)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Conversat	ion				
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

5.3.11 CONF

TP411001	SIP reference: RFC 3261 [4	ij	Q.1912	2.5	Preference: [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 "o	the	r party added"		
	 To verify that the IUT can successfully transfer/deliver the required notifications in/from CPG message: 1. assist a call set up from ISUP to SIP-I; 2. check that the notification "conference established" is received in the CPG from conferee at SIP-I; 3. check the notification "other party added" in the CPG. O-MGCF interworking. 						
SIP parameter	INFO/INVITE: Content-Type: multi	ipart/mix	ed, Content-Type:	ap	pplication/ISUP; CPG		
values	encapsulated in the MIME body	-		·			
ISUP parameter	CPG: Generic notification: confere	nce esta	ablished				
values	CPG: Generic notification: other pa	arty add					
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+	•	←	180 Ringing(ACM)		
	ANM	+		(200 OK INVITE(ANM)		
				<u>→</u>	ACK		
			Conversation				
	Case A						
	CPG(conference established)	→)	INVITE(CPG,sendrecv)		
				(200 OK INVITE(sendrecv)		
			•)	ACK		
	CASE B						
	CPG(conference established)	→		→	INFO(CPG)		
			•	(200 OK (INFO)		
	CASE A			_			
	CPG(other party added)	→		<u> </u>	INVITE(CPG,sendrecv)		
				<u>←</u>	200 OK INVITE(sendrecv)		
	0.4.05 B)	ACK		
	CASE B			_	N/E0 (0D0)		
	CPG(other party added)	→		}	INFO(CPG)		
				(200 OK (INFO)		
	DE:				D)(E(DEL)		
	REL	→		<u> </u>	BYE(REL)		
	RLC	+	<u> </u>	(200 OK BYE(RLC)		

TP411002	SIP reference: R	FC 32	261 [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 "other party added"
		succ	essfully transfer	/deliv	er the required notifications in/from the
	CPG message:				
	 Assist a call set up from the set of the s				
			'conference esta	ablish	ed" is received in the CPG from
	conferee at the ISUP		ا المصادر مططحاً :	n tha	CDC
	Check the notification I-MGCF interworking.	otne	я рапу аффест	n tne	CPG.
SIP parameter		ype: ı	multipart/mixed,	Cont	ent-Type: application/ISUP; CPG
values	encapsulated in the MIM	É bod	y		, , ,
ISUP parameter	CPG: Generic notification	n: con	ference establis	hed	
values	CPG: Generic notification	n: othe	er party added		
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		←	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversation		
	CASE A				
	INFO(CPG)	→		→	CPG(conference established)
	200 OK INFO	+			
	CASE B	+_		+_	000/
	INVITE (CPG)	→		→	CPG(conference established)
	200 OK INVITE	+		-	
	ACK	→	1	-	
	CASE A	+		+	ODO(-th
	INFO(CPG)	→	1	→	CPG(other party added)
	200 OK INFO CASE B	-		-	
		→		 _	CDC (athor party added)
	INVITE (CPG) 200 OK INFO	7		→	CPG(other party added)
	ACK	→		-	
		 		+-	DEI
	BYE(REL)	7		→	REL RLC
	200 OK BYE(RLC)	_			RLC

TP411003	SIP reference: RFC 3261 [4]	Q.19 ²	12.5 [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 "confere	nce estal	olished" and "is	olate	d"
	To verify that the IUT can successful CPG message: 1. Assist a call set up from ISUP to 2. Check that the notification "confeconferee at the SIP-I; 3. Check the notification "isolated" in O-MGCF interworking.	SIP-I; rence est	ablished" is red		
SIP parameter	INFO/INVITE: Content-Type: multipa	rt/mixed	Content-Type:	annli	cation/ISLIP: CPG
values	encapsulated in the MIME body	a viinkeu,	Content-Type.	арріі	oation/1001, of G
ISUP parameter	CPG: Generic notification: conference	e establis	shed		
values	CPG: Generic notification: isolated	o ootaan	J.1.0 G		
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversation		
	CASE A				
	CPG(conference established)	→		→	INFO(CPG)
				+	200 OK INFO
	CPG(isolated)	→		→	INFO(CPG)
	J. J(1881.4184)	_		+	200 OK INFO
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)
	CASE B			†	
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)
	C. Storing of the sto	1		-	200 OK
				-	INVITE(sendrecv)
İ					
				→	
				>	ACK
	CPG(isolated)	→			ACK
	CPG(isolated)	→		→	ACK INVITE(CPG,sendrecv)
	CPG(isolated)	→		→	INVITE(CPG,sendrecv) 200 OK
	CPG(isolated)	→		→	INVITE(CPG,sendrecv) 200 OK INVITE(sendrecv)
	CPG(isolated)	→		→	INVITE(CPG,sendrecv) 200 OK
	CPG(isolated)	>		→	INVITE(CPG,sendrecv) 200 OK INVITE(sendrecv)

TP411004	SIP reference: R	FC 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/CON	F							
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Generic notification trans	fer "co	onference estab	lished	d" and "isolated"				
	CPG message: 1. assist a call set up fro 2. check that the notifica conferee at SIP-I;	assist a call set up from SIP-I to ISUP; check that the notification "conference established" is received in the CPG from conferee at SIP-I; check the notification "isolated" in the CPG.							
SIP parameter			ultipart/mixed (Conte	ent-Type: application/ISUP; CPG				
values	encapsulated in the MIME			001110	Type: application/1881 , 81 8				
ISUP parameter	CPG: Generic notification	: conf	erence establisl	hed					
values	CPG: Generic notification: isolated								
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversation						
	CASE A								
	INFO(CPG)	→		→	CPG(conference established)				
	200 OK INFO	+							
	INFO(CPG)	→		→	CPG(isolated)				
	200 OK INFO	+							
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				
	CASE B								
	INVITE (CPG)	→		→	CPG(conference established)				
	200 OK INVITE	+							
	ACK	→							
	INVITE (CPG)	→		→	CPG(isolated)				
	200 OK INVITE	+							
	ACK	→							
	BYE(REL)	→		→	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		<u> </u>	L	,
SIP selection	1001 011 1001 700700141				
criteria					
ISUP selection					
criteria					
Test purpose	Generic notification transfer "conference				
	To verify that the IUT can successfully tra CPG message: 1. assist a call set up from ISUP to SIP- 2. check that the notification "conference conferee at SIP-I; 3. check the notification "reattached" in the O-MGCF interworking.	l; e est the C	ablished" is rece	ived	I in the CPG from
SIP parameter	INFO/INVITE: Content-Type: multipart/m	ixed,	Content-Type: a	appli	cation/ISUP; CPG
values	encapsulated in the MIME body				
ISUP parameter	CPG: Generic notification: conference es	tablis	shed		
values	CPG: Generic notification: isolated				
	CPG: Generic notification: reattached	1	01.7		OID I
Comments	ISUP		SUT		SIP-I
	IAM	→		<u>→</u>	INVITE(IAM)
	ACM	1		<u>+</u>	
	ANM	+		<u>+</u>	200 OK INVITE(ANM)
				→	ACK
			Conversation		
	CASE A				
	CPG(conference established)	→		→	INFO(CPG)
				←	200 OK INFO
	CPG(isolated)	→		<u>→</u>	INFO(CPG)
				←	200 OK INFO
	ODO(=== h== h== h				INIEO(ODO)
	CPG(reattached)	→		<u>→</u>	INFO(CPG)
				←	200 OK INFO
		_			
	REL	→		<u>→</u>	BYE(REL)
	RLC	←		+	200 OK BYE(RLC)
	CASE B				
	CPG(conference established)	→		<u>→</u>	INVITE(CPG,sendrecv)
				←	200 OK
					INVITE(sendrecv
				<u>→</u>	ACK
	ODO(; I t I)	_			INDUSTRICORDO I I I
	CPG(isolated)	→)	INVITE(CPG,sendonly)
				←	200 OK INVITE(recvonly)
				→	ACK
					AOR
	CPG(reattached)	→		→	INFO(CPG,sendrecv)
	Or Officationica)	-		/	200 OK
				•	INVITE(sendrecv)
				→	ACK
					AOR
	DEI	→		_	DVE(DEL)
	REL RLC	<u>→</u>		<u>→</u>	BYE(REL)
	KLU	7		~	200 OK BYE(RLC)

TSS reference ISUP-SIP-ISUP/SS/CONF SIP selection criteria ISUP selection criteria Test purpose Generic notification transfer "conference established", "isolated" and "reattache To verify that the IUT can successfully transfer/deliver the required notifications 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 values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: isolated CPG: Generic notification: reattached	ed" s in/from the
SIP selection criteria ISUP selection criteria Test purpose Generic notification transfer "conference established", "isolated" and "reattache To verify that the IUT can successfully transfer/deliver the required notifications 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 f conferee at SIP-I; 3. check the notification "reattached" in the CPG. I-MGCF interworking. SIP parameter values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: reattached	in/from the
ISUP selection criteria Test purpose Generic notification transfer "conference established", "isolated" and "reattache To verify that the IUT can successfully transfer/deliver the required notifications 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 confere at SIP-I; 3. check the notification "reattached" in the CPG. I-MGCF interworking. SIP parameter values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: reattached	in/from the
Test purpose Generic notification transfer "conference established", "isolated" and "reattache To verify that the IUT can successfully transfer/deliver the required notifications 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 confere at SIP-I; 3. check the notification "reattached" in the CPG. I-MGCF interworking. SIP parameter values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: reattached	in/from the
Test purpose Generic notification transfer "conference established", "isolated" and "reattache To verify that the IUT can successfully transfer/deliver the required notifications 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 f conferee at SIP-I; 3. check the notification "reattached" in the CPG. I-MGCF interworking. SIP parameter values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: reattached	in/from the
To verify that the IUT can successfully transfer/deliver the required notifications 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 values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: reattached	in/from the
3. check the notification "reattached" in the CPG.	CPG
SIP parameter values INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; encapsulated in the MIME body ISUP parameter values CPG: Generic notification: isolated CPG: Generic notification: reattached	CPG
values encapsulated in the MIME body ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: isolated CPG: Generic notification: reattached	
ISUP parameter values CPG: Generic notification: conference established CPG: Generic notification: isolated CPG: Generic notification: reattached	
CPG: Generic notification: reattached	
Comments SIP-I SUT ISUP	
INVITE(IAM) → IAM	
180 Ringing(ACM) ← ← ACM	
200 OK INVITE(ANM) ← ← ANM	
ACK →	
Conversation	
CASE A	
INFO(CPG) → CPG(conference establish	ied)
200 OK INFO	
N150(000)	
INFO(CPG) → CPG(isolated)	
200 OK INFO ←	
NEO(ODO) NODO(***********************************	
INFO(CPG) → CPG(reattached) 200 OK INFO ←	
200 OK INFO ←	
BYE(REL) → REL	
200 OK BYE(RLC)	
INIVITE (CDC condition)	204)
200 OK	ieu)
INVITE(sendrecv)	
ACK →	
AON 7	
INVITE(CPG,sendonly) → CPG(isolated)	
200 OK	
INVITE(recvonly)	
ACK →	
INVITE(CPG,sendrecv) → CPG(reattached)	
200 OK	
INVITE(sendrecv)	
ACK →	
BYE(REL) → REL	
200 OK BYE(RLC) ← RLC	

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		-	•	•				
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Generic notification transfer "conferer disconnected" To verify that the IUT can successfull CPG message: 1. assist a call set up from ISUP to S 2. check the notification "other party O-MGCF interworking.	y transfe SIP-I;	r/deliver the re	quire					
SIP parameter	INFO/INVITE: Content-Type: multipar	rt/mixed	Content-Type	annli	ication/ISUP: CPG				
values	encapsulated in the MIME body	z m.xou,	Januari Typo	ייקקה.					
ISUP parameter	CPG: Generic notification: conference	e establis	shed						
values	CPG: Generic notification: other party								
	CPG: Generic notification: other party								
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
	Conversation								
	CASE A								
	CPG(conference established)	→		→	INFO(CPG)				
				+	200 OK INFO				
	CPG(other party added)	→		→	INFO(CPG)				
				+	200 OK INFO				
	CPG(other party disconnected)	→		→	INFO(CPG)				
				+	200 OK INFO				
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				
	CASE B								
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)				
				+	200 OK				
				+_	INVITE(sendrecv)				
				→	ACK				
	000/ #	+		+_	INDUITE (CDC				
	CPG(other party added)	→		→	INVITE(CPG,				
				-	sendrecv)				
				+	200 OK				
		+			INVITE(sendrecv)				
				→	ACK				
	CPG(other party disconnected)	→		→	INVITE(CPG,				
	or G(other party disconnected)			-	sendrecv)				
				+	200 OK INVITE				
				`	(sendrecv)				
				→	ACK				
				+-	7.010				
	REL	→		→	BYE(REL)				
	RLC	-		-	200 OK BYE(RLC)				
	INLO				1200 ON DTE(NLO)				

TP411008	SIP reference: RI	-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	=							
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Generic notification transf disconnected"	er "cc	onference estab	lished	l", "other party added" and "other party				
		succe	essfully transfer	/deliv	er the required notifications in/from the				
	CPG message:								
	assist a call set up fro								
	2. check the notification	other	party disconne	cted"	in the CPG.				
CID parameter	I-MGCF interworking.		vultipart/mivad	Conto	ent-Type: application/ISUP; CPG				
SIP parameter values	encapsulated in the MIME			COLITE	ant-Type, application/150P; CPG				
ISUP parameter	CPG: Generic notification			had					
values	CPG: Generic notification CPG: Generic notification CPG: Generic notification	: othe	r party added						
Comments	SIP-I	. 5410	SUT	10.00	ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversation	1					
	CASE A								
	INFO(CPG)	→		→	CPG(conference established)				
	200 OK INFO	←							
	INFO(CPG)	→		→	CPG(other party added)				
	200 OK INFO	+							
				<u> </u>					
	INFO(CPG)	→		→	CPG(other party disconnected)				
	200 OK INFO	+							
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		′	RLC				
	CASE B	Ė		†					
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)				
	200 OK	+							
	INVITE(sendrecv)								
	ACK	→							
	INVITE(CPG,sendrecv)	→		→	CPG(other party added)				
	200 OK	+							
	INVITE(sendrecv)	 		-					
	ACK	→		-					
	INVITE(CPG,sendrecv)	→		→	CPG(other party disconnected)				
	200 OK	+		+	C. Storior party algorimotical				
	INVITE(sendrecv)	-							
	ACK	→		1					
	-			1					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				
l .	/								

TP411009	SIP reference: RFC 3261 [4]		Q.1912.5	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 "conferer							
	To verify that the IUT can successfully CPG message:	y transie	r/deliver the requir	ed notifications in/from the				
	assist a call set up from ISUP to S	IP-I:						
	2. check that the notification "conference		ablished" is receive	ed in the CPG from				
	conferee at ISUP;							
	release the conference.							
	O-MGCF interworking.							
SIP parameter	INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG							
values	encapsulated in the MIME body							
ISUP parameter values	CPG: Generic notification: conference	establis	shed					
Comments	ISUP		SUT	SIP-I				
	IAM	→	-					
	ACM	←	•	- 180 Ringing(ACM)				
	ANM	+	•					
			-					
			Conversation					
	CASE A							
	CPG(conference established)	→	-	INFO(CPG)				
			•					
	REL	→	-3	BYE(REL)				
	RLC	←	•					
	CASE B			` '				
	CPG(conference established)	→	-	INVITE(CPGsendrecv)				
	,		•					
				INVITE(sendrecv)				
			-3					
	REL	→	-3	BYE(REL)				
	RLC	-	•	, ,				

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/CON	F						
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Generic notification transf	fer "co	nference estab	olished	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-Type: multipart/mixed, Content-Type: application/ISUP; CPG							
values		encapsulated in the MIME body						
ISUP parameter values	CPG: Generic notification	: conf	erence establis	hed				
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversation					
	CASE A							
	INFO(CPG)	→		→	CPG(conference established)			
	200 OK INFO	1						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			
	CASE B							
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)			
	200 OK	+						
	INVITE(sendrecv)							
	ACK	→						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

5.3.12 ECT

TP412001	SIP reference: RFC 3261 [4]			IS	SUP reference:				
			Q.1912.5	[1], cl	auses 5.4.3, 5.4.3.2 and B.8,				
			Q.73	32.7 [i.	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 i	numl	per for the	activ	e user				
	Verify that the IUT is able to send the G								
	the service activation parameter "call tra			call tra	ansfer number, received in the				
	ISUP FAC, in an INFO request for the a	ective	user.						
		O-MGCF interworking.							
SIP parameter	INFO: Content-Type: application/ISUP;	FAC	encapsula	ated in	the MIME body				
values									
ISUP parameter	FAC: Generic notification=call transfer a	active	e, Service a	activat	ion=call transfer, Call transfer				
values	number (PIXIT)			_					
Comments	ISUP	_	SUT		SIP-I				
	D 4.71	→		→	INVITE(IAM)				
	7.10.11	←		+	180 Ringing(ACM)				
	ANM	←		+	200 OK INVITE(ANM)				
				→	ACK				
		С	onversatio	on					
	FAC(call transfer active, CTNb) → INFO(FAC)								
				+	200 OK INFO				
	REL	→		→	BYE(REL)				
	RLC	←		+	200 OK BYE(RLC)				

TP412002	SIP reference: RFC	3261 [4		.1912.	ISUP reference: 5 [1], clauses 5.4.3, 5.4.3.2 and B.8,		
	10115 015 10115 (00 /505				Q.734 [i.7], clause 1.6.15		
TSS reference	ISUP-SIP-ISUP/SS/ECT						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Capability of sending the 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 INFO request containing the encapsulated FAC, in a ISUP FAC for the active user. I-MGCF interworking.						
SIP parameter values	INFO: Content-Type: applic	cation/IS	SUP; FAC en	ncapsu	lated in the Message body		
ISUP parameter values	FAC: Generic notification=	call tran	sfer active, S	Service	activation=call transfer, Call transfer		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
		(Conversatio	n			
	INFO(FAC)	→		→	FAC(call transfer active, CTNb)		
	200 OK INFO	+					
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP412005	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	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	ed, Cor	ntent-Type:	applic	cation/ISUP; CPG				
values	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC encapsulated in the MIME body new session with new INVITE to CTNb								
ISUP parameter values		CPG: Event indicator=progress, Generic notification=hold FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer							
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
		С	onversatio	n					
	CPG(hold)	→		→	INVITE(CPG, sendonly)				
				+	200 OK INVITE(recvonly)				
				→	ACK				
	FAC(call transfer active, CTNb)	→		→	INFO(FAC)				
				+	200 OK INFO				
				→	INVITE(sendrecv)				
				+	200 OK INVITE(sendrecv)				
				→	ACK				
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP412006		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/CONF								
SIP selection criteria									
ISUP selection criteria									
Test purpose	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. 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; FAC encapsulated in the MIME body								
ISUP parameter values	CPG: Event indicator=progress, Generic notification=hold FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer number(PIXIT)								
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
		C	onversation	1					
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+			((() () () () () () () () ()				
	ACK	→							
	INFO(FAC)	→		→	FAC(call transfer active, CTNb)				
	200 OK INFO	+							
	INVITE(sendrecv)	→							
	200 OK INVITE(sendrecv) ACK	←		+					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		←	RLC				

TP412009	SIP reference: RFC 3261 [4	1	ISUP reference:					
	.	•		, clauses 5.4.3, 5.4.3.2 and B.8, 7 [i.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 - 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: ap	plication/ISUP; CPG				
values	encapsulated in the MIME body							
	INFO: Content-Type: application/ISI	UP; FAC	c encapsulated	d in the MIME body				
	INFO: Content-Type: application/ISI							
ISUP parameter values	CPG: Event indicator=progress, Generic notification=hold LOP: request: Call transfer reference LOP: response: Call transfer reference FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer							
Comments	number(PIXIT)		SUT	SIP-I				
Comments	IAM	→		→ INVITE(IAM)				
I								
I	ACM	+		€ 180 Ringing(ACM)				
I	ANM	+		€ 200 OK INVITE(ANM)				
I				→ ACK				
I			onversation					
I	CPG(hold)	→		→ INVITE(CPG, sendonly)				
I				← 200 OK INVITE(recvonly)				
İ				→ ACK				
İ								
İ	LOP(request)	→		→ INFO(LOP)				
İ				← 200 OK INFO				
İ	LOP(response)	←		← INFO(LOP)				
İ				→ 200 OK INFO				
1	FAC(call transfer active, CTNb)	→		→ INFO(FAC)				
l				← 200 OK INFO				
				→ INVITE(sendrecv)				
•								
				€ 200 OK INVITE(sendrecv)				
				← 200 OK INVITE(sendrecv)				
	REL	→		← 200 OK INVITE(sendrecv)				

TP412010	SIP reference: RFC	3261 [41	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	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.								
SIP parameter	INVITE: Content-Type: multi		nixed, Conti	ent- i ype	e: application/ISUP; CPG				
values	INFO: Content-Type: application INFO: Content-Type: application	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	ess, G	eneric notif						
values	LOP: request: Call transfer reference LOP: response: Call transfer reference FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer number(PIXIT)								
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversat	ion					
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	→							
	INFO(LOP)	→		→	LOP(request)				
	200 OK INFO	+							
	INFO(LOP)	+		+	LOP(response)				
	200 OK INFO	→							
	INFO(FAC)	→		→	FAC(call transfer active, CTNb)				
	200 OK INFO	+		- - - - - - - - - - 	i Ac(cail transfer active, CTND)				
	200 OK INFO	_							
	INVITE(sendrecv)	→							
	200 OK INVITE(sendrecv)	-							
	ACK	→			<u> </u>				
	7.51	+-							
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	′		-	RLC				
	1200 ON DTE(NEO)		1		INLO				

TP412011	SIP reference: RFC 3261 [4]		Q.1912.5 Q.73	[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		old			
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			onversatio				
	CPG(hold)	→		→	INVITE(CPG, sendonly)		
				+	200 OK INVITE(recvonly)		
				→	ACK		
	1.00(\downarrow	 		
	LOP(request)	→		→	INFO(LOP)		
				+	200 OK INFO		
	REL	→		→	BYE(REL)		
	RLC	-		-	200 OK BYE(RLC)		
	INLO	_			ZUU ON DIE(NLO)		

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=progr LOP: request: Call transfer		ce	tion=				
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	←		←	ACM			
	200 OK INVITE(ANM)	←		←	ANM			
	ACK	→						
			Conversation	1				
	INVITE(CPG, sendonly)	→		→	CPG(hold)			
	200 OK INVITE(recvonly)	+						
	ACK	→						
	INFO(LOP)	→		→	LOP(request)			
	200 OK INFO	+						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP412013	SIP reference: RFC 3261 [4]], 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		•		<u>.</u>				
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Verify that the SUT is able to transfer t INFO request containing the LOP mes	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-MGCE interworking							
SIP parameter	INVITE: Content-Type: multipart/mixed	d, Cor	ntent-Type: ap	oplic	ation/ISUP; CPG				
values	encapsulated in the MIME body INFO: Content-Type: application/ISUP			•					
	INFO: Content-Type: application/ISUP								
ISUP parameter values	LOP: request: Call transfer reference	FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer							
Comments	ISUP	T	SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		(180 Ringing(ACM)				
	ANM	+		-	200 OK INVITE(ANM)				
				→	ACK				
	Conversation								
	CPG(hold)	→		→	INVITE(CPG, sendonly)				
	,			←	200 OK INVITE(recvonly)				
				→	ACK				
	LOP(request)	→		→	INFO(LOP)				
		<u> </u>		(200 OK INFO				
	FAC(call transfer active, CTNb)	→		→	INFO(FAC)				
		_		(200 OK INFO				
				→	INVITE(sendrecv)				
				<u>←</u> →	200 OK INVITE(sendrecv) ACK				
	REL	→		→	BYE(REL)				
	RLC	-		<u> </u>	200 OK BYE(RLC)				
	INLO			_	ZOU ON BIE(NLC)				

TP412014	SIP reference: RFC	3261 [4	17	ISUP reference:						
				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									
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. I-MGCF interworking								
SIP parameter	INVITE: Content-Type: mult	part/mi	ixed, Content-	Туре	e: application/ISUP; CPG					
values	encapsulated in the MIME b	ody		• •						
	INFO: Content-Type: application in INFO: Content-Ty	ation/IS	SUP; LOP end	apsu	lated in the MIME body					
ISUP parameter	CPG: Event indicator=progre			tion=l	hold					
values	FAC: Generic notification=cannumber(PIXIT)	LOP: request: Call transfer reference FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer number(PIXIT)								
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
		Conversation								
	INVITE(CPG, sendonly)	→		→	CPG(hold)					
	200 OK INVITE(recvonly)	←								
	ACK	→								
	INFO(LOP)	→		→	LOP(request)					
	200 OK INFO	+								
	INFO(FAC)	→		→	FAC(call transfer active, CTNb)					
	200 OK INFO	+			, , ,					
	INVITE(sendrecv)	→								
	200 OK INVITE(sendrecv)	+								
	ACK	→								
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	←		←	RLC					

-		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										
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										
encapsulated in the MIME body	,	,,	• •	•						
INFO: Content-Type: application/ISI	JP; FAC	encapsulat	ed in	the MIME body						
CPG: Event indicator=progress, Generic notification=hold FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer										
ISUP		SUT		SIP-I						
IAM	→		→	INVITE(IAM)						
ACM	+		+	180 Ringing(ACM)						
ANM	+		+	200 OK INVITE(ANM)						
			→	ACK						
CPG(hold)	→		→	INVITE(CPG, sendonly)						
			+	200 OK INVITE(recvonly)						
			→	ACK						
FAC(call transfer active, CTNb)	→		→	INFO(FAC)						
			+	200 OK INFO						
			T -							
			→	INVITE(sendrecv)						
			+	200 OK INVITE(sendrecv)						
			→	ACK						
			Ť							
RFL	→		→	BYE(REL)						
				200 OK BYE(RLC)						
	Facility message with generic not Verify that the SUT is able to transfet transfer, alerting" and the service a ISUP FAC in a SIP INFO request co INVITE: Content-Type: multipart/mix encapsulated in the MIME body INFO: Content-Type: application/ISI CPG: Event indicator=progress, Ge FAC: Generic notification=call transformmeter(PIXIT) ISUP IAM ACM	Facility message with generic notification Verify that the SUT is able to transfer the generic representation of the service activation of the servi	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									
Test purpose	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 ISUP FAC message. I-MGCF interworking.								
SIP parameter values	INVITE: Content-Type: multi encapsulated in the MIME b	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body							
ISUP parameter		INFO: Content-Type: application/ISUP; FAC encapsulated in the MIME body							
values		CPG: Event indicator=progress, Generic notification=hold FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer number(PIXIT)							
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
		Conversation							
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	→							
	INFO(FAC)	→		→	FAC(call transfer active, CTNb)				
	200 OK INFO	+							
	INVITE(sendrecv)	→							
	200 OK INVITE(sendrecv)	+		╂					
	ACK	→							
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		←	RLC				

TP412017	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	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/ISUP; CPG encapsulated in the MIME body						
ISUP parameter	CPG: Generic notification=call trans	fer activ	e, Service a	ctivat	tion=call transfer, Call transfer		
values	number (PIXIT)						
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	CPG(call transfer active, CTNb)	→		→	INFO(CPG)		
				+	200 OK INFO		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
		Conversation					
	REL	→		→	BYE(REL)		
	RLC	+		←	200 OK BYE(RLC)		

TP412018	SIP reference: RFC	3261 [4		Q.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 progress message with generic notification sent to the remote user Verify that the SUT is able to transfer the ISUP CPG with the generic notification set to "call transfer, active" and the service activation parameter set to "call transfer" contained in SIP-I INFO request in an ISUP CPG. The held user is retrieved by receiving a re-INVITE sendrecv. I-MGCF interworking.						
SIP parameter	INVITE: Content-Type: mult	nart/mi	xed Conte	ent-Type	e: application/ISUP: CPG		
values	encapsulated in the MIME b		,, OOI 10	o ypc	αρριισαιιστί (στ		
	INFO: Content-Type: applica		UP: CPG	encapsu	llated in the MIME body		
ISUP parameter values	CPG: Event indicator=programmer CPG: Generic notification=c number(PIXIT)				hold e activation=call transfer, Call transfer		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	←		←	ACM		
	200 OK INVITE(ANM)	←		←	ANM		
	ACK	→					
			Conversat				
	INVITE(CPG, sendonly)	→		→	CPG(hold)		
	200 OK INVITE(recvonly)	+					
	ACK	→					
	INFO(CPG)	→		→	CPG(call transfer active, CTNb)		
	200 OK INFO	+					
	INVITE(sendrecv)	→					
	200 OK INVITE(sendrecv)	+					
	ACK	→					
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP412019	SIP reference: RFC	3261 [4		912.	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		ixed, Content-	Туре	e: application/ISUP; CPG			
values	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC(CTNb=restricted) encapsulated in the MIME body							
ISUP parameter		CPG: Event indicator=progress, Generic notification=hold						
values	FAC: Generic notification=cattransfer number(PIXIT)	all trans	sfer active, Se	rvice	activation=call transfer, no Call			
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	←		←	ANM			
	ACK	→						
	Conversation							
	INVITE(CPG, sendonly)	→		→	CPG(hold)			
	200 OK INVITE(recvonly)	+						
	ACK	→						
	INFO(FAC)	→		→	FAC(call transfer active)			
	200 OK INFO	-		1				
	INVITE(sendrecv)	→						
	200 OK INVITE(sendrecv)	+		1				
	ACK	→						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	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	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	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC(CTNb=national) encapsulated in the Message body							
ISUP parameter	CPG: Event indicator=progre							
values	FAC: Generic notification=canumber=international(PIXIT)		sfer active, Se	rvice	activation=call transfer, Call transfer			
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	←		←	ACM			
	200 OK INVITE(ANM)	←		←	ANM			
	ACK	→						
		Conversation						
	INVITE(CPG, sendonly)	→		→	CPG(hold)			
	200 OK INVITE(recvonly)	+						
	ACK	→						
	INFO(FAC)	→		→	FAC(call transfer active, CTNb)			
	200 OK INFO	+						
	INVITE(sendrecv)	→						
	200 OK INVITE(sendrecv)	←						
	ACK	→						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP412021	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	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	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC(CTNb=national) encapsulated in the MIME body									
ISUP parameter	CPG: Event indicator=progress, Gen	neric no	tification=ho	ld						
values	FAC: Generic notification=call transfernment (PIXIT)	er activ	e, Service a	ctivat	tion=call transfer, Call transfer					
Comments	ISUP		SUT		SIP-I					
	IAM	→		→	INVITE(IAM)					
	ACM	←		←	180 Ringing(ACM)					
	ANM	←		←	200 OK INVITE(ANM)					
				→	ACK					
			onversatio	n						
	CPG(hold)	→		→	INVITE(CPG, sendonly)					
				+	200 OK INVITE(recvonly)					
				→	ACK					
	FAC(call transfer active, CTNb)	→		→	INFO(FAC)					
				+	200 OK INFO					
				→	INVITE(sendrecv)					
				+	200 OK INVITE(sendrecv)					
				→	ACK					
	REL	→		→	BYE(REL)					
	RLC	+		+	200 OK BYE(RLC)					

TP412022	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	ECT - Interaction with SUB									
	Verify that if the IUT is able to transf in the ISUP FAC message contained vice versa received in an ISUP FAC FAC message. These are the calling sub-address for outgoing calls. O-MGCF interworking.	d in the messa	SIP-I INFO ge in a SIP-	reque	est in ISUP FAC message and D request containing the ISUP					
SIP parameter	INFO: Content-Type: application/ISU	JP: FAC	encapsula	ted in	the MIME body					
values	7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	- , -			,					
ISUP parameter values	FAC: Generic notification=call transf number(PIXIT) FAC: ATP contained the connected									
Comments	ISUP		SUT		SIP-I					
	IAM	→		→	INVITE(IAM)					
	ACM	+		+	180 Ringing(ACM)					
	ANM	+		+	200 OK INVITE(ANM)					
				→	ACK					
		С	onversatio	n						
	FAC(call transfer active, CTNb)	→		→	INFO(FAC)					
				+	200 OK INFO					
	EAC(ATD_SUB)			_	INEO(EAC)					
	FAC(ATP=SUB)	+		+	INFO(FAC)					
	FAC(ATP=SUB)	+		←	INFO(FAC) 200 OK INFO					
	FAC(ATP=SUB) FAC(ATP=SUB)	←		→	200 OK INFO INFO(FAC)					
				→	200 OK INFO					
				→	200 OK INFO INFO(FAC)					

5.3.13 3PTY

SIP parameter values INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body SUP parameter values SUP parameter values SUP parameter values SUP parameter values SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values COMMENTS SUP parameter values SUP parameter values SUP parameter values CPG: Event indicator=progress, Generic notification=hold CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress SUP parameter values SUP parameter val	TP413001	SIP reference: RFC 3261 [4]			.191	SUP reference: 2.5 [1], clause B.15, 8], clauses 2.4 and 2.2.1			
Criteria ISUP selection Criteria	TSS reference	ISUP-SIP-ISUP/SS/3PTY							
Suparameter Served user initiates 3PTY	SIP selection								
Test purpose Served user initiates 3PTY Verify that the served user with two active calls is located, can successfully join this content (remote held user) to a three-way conversation, and notify the implied remote party accordingly. The IUT should transfer an ISUP CPG message with the generic notification indicated set to "conference established" in a SIP-I INFO request containing the ISUP CPG message. The event indicator in the CPG should be set to "progress": 1. setup a call to user B; 2. put this call on hold; 3. join this call to a conference. O-MGCF interworking. INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body ISUP parameter values CPG: Event indicator=progress, Generic notification=hold CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference									
Served user initiates 3PTY Verify that the served user with two active calls is located, can successfully join this contended user) to a three-way conversation, and notify the implied remote party accordingly. The IUT should transfer an ISUP CPG message with the generic notification indicates to "conference established" in a SIP-I INFO request containing the ISUP CPG message. The event indicator in the CPG should be set to "progress": 1. setup a call to user B; 2. put this call on hold; 3. join this call to a conference. O-MGCF interworking. SIP parameter values INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body ISUP parameter values CPG: Event indicator=progress, Generic notification=hold CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference estab									
Verify that the served user with two active calls is located, can successfully join this of (remote held user) to a three-way conversation, and notify the implied remote party accordingly. The IUT should transfer an ISUP CPG message with the generic notification indicated set to "conference established" in a SIP-I INFO request containing the ISUP CPG message. The event indicator in the CPG should be set to "progress": 1. setup a call to user B; 2. put this call to a conference. O-MGCF interworking. SIP parameter values 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 COmments ISUP SUT SIP-I IAM ACM SUT SIP-I IAM ACM CPG: Event indicator=progress, Generic notification=conference established CONVERSATION ACM CONVERSATION CONVERSATION CONVERSATION CPG(hold) ANM CONVERSATION CPG(conference established) CPG(conference established) ACK CPG(conference established) ACK CPG(conference established) ACK									
(remote held user) to a three-way conversation, and notify the implied remote party accordingly. The IUT should transfer an ISUP CPG message with the generic notification indicates to "conference established" in a SIP-I INFO request containing the ISUP CPG message. The event indicator in the CPG should be set to "progress": 1. setup a call to user B; 2. put this call on hold; 3. join this call to a conference. O-MGCF interworking. SIP parameter values INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body ISUP parameter values CPG: Event indicator=progress, Generic notification=hold CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference established SUT SIP-I IAM → INVITE(IAM) ACM ← 180 Ringing(ACM) ANM ← ← 200 OK INVITE(ANM) → ACK Conversation CPG(hold) → INVITE(CPG, sendon) ← 200 OK INVITE(CPG, sendon) ← 200 OK INVITE(cPG, sendon) ← 200 OK INVITE(cPG, sendrected)	Test purpose								
INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body		(remote held user) to a three-way conversation, and notify the implied remote party accordingly. The IUT should transfer an ISUP CPG message with the generic notification indicator set to "conference established" in a SIP-I INFO request containing the ISUP CPG message. The event indicator in the CPG should be set to "progress": 1. setup a call to user B; 2. put this call on hold; 3. join this call to a conference.							
values encapsulated in the MIME body ISUP parameter values CPG: Event indicator=progress, Generic notification=conference established Comments ISUP SUT SIP-I IAM → → INVITE(IAM) ACM ← ← 200 OK INVITE(ANM) ANM ← ← 200 OK INVITE(CPG, sendonly) CONVersation ← 200 OK INVITE(recvor) ACK → ACK	SIP parameter		:onte	ent-Type: at	onlica	ation/ISUP: CPG			
CPG: Event indicator=progress, Generic notification=hold CPG: Event indicator=progress, Generic notification=conference established				ι <u>γ</u> ρο. α _ι	- Pilot	a, 501 , 51 5			
Values CPG: Event indicator=progress, Generic notification=conference established ISUP SUT SIP-I IAM → → INVITE(IAM) ACM ← ← 200 OK INVITE(ANM) ANM ← ← 200 OK INVITE(CPG, sendonly CONVERSATION ← 200 OK INVITE(recvor ACK → ACK			notifi	ication=hold	<u> </u>				
ISUP SUT SIP-I IAM → INVITE(IAM) ACM ← (480 Ringing(ACM) ANM ← (480 Ringing(ACM) ANM ← (480 Ringing(ACM) ANM ← (480 Ringing(ACM) ACK (480 Ringing						nce established			
ACM ←	Comments								
ACM ←		IAM =	>		→	INVITE(IAM)			
ANM		ACM +	-		+				
Conversation CPG(hold) → INVITE(CPG, sendonly ← 200 OK INVITE(recvor → ACK CPG(conference established) → INVITE(CPG, sendrecvor ← 200 OK INVITE(sendrecvor) ← 200 OK INVITE(sendrecvor) ← ACK		ANM	-		+				
CPG(hold) → INVITE(CPG, sendonly ← 200 OK INVITE(recvor → ACK CPG(conference established) → INVITE(CPG, sendrecvor ← 200 OK INVITE(sendrecvor) ← 200 OK INVITE(sendrecvor) ← ACK					→	ACK			
← 200 OK INVITE(recvor → ACK CPG(conference established) → INVITE(CPG, sendrected) ← 200 OK INVITE(sendredted) → ACK			Со	nversation)				
← 200 OK INVITE(recvor → ACK CPG(conference established) → INVITE(CPG, sendrected) ← 200 OK INVITE(sendredted) → ACK		CPG(hold)	\		→	INVITE(CPG, sendonly)			
→ ACK CPG(conference established) → INVITE(CPG, sendrected) ← 200 OK INVITE(sendrected) → ACK		,			+	200 OK INVITE(recvonly)			
CPG(conference established) → INVITE(CPG, sendrection					→	\ ,			
← 200 OK INVITE(sendre									
← 200 OK INVITE(sendre		CPG(conference established)	•		→	INVITE(CPG, sendrecv)			
→ ACK					+	200 OK INVITE(sendrecv)			
					→				
			Co	nversation	1				
REL → BYE(REL)		REL -				BYE(REL)			
RLC ← 200 OK BYE(RLC)									

TSS reference SIP selection criteria ISUP selection criteria Test purpose Served user initiates 3PTY Verify that the served user with two active calls is located, can succe (remote held user) to a three-way conversation, and notify the implie accordingly. The IUT should send a CPG message with the generic notification "conference established" to both implied parties. The event indicate be set to "progress":	d remote party indicator set to							
criteria ISUP selection criteria Test purpose Served user initiates 3PTY Verify that the served user with two active calls is located, can succe (remote held user) to a three-way conversation, and notify the implie accordingly. The IUT should send a CPG message with the generic notification "conference established" to both implied parties. The event indicate	d remote party indicator set to							
ISUP selection criteria Test purpose Served user initiates 3PTY Verify that the served user with two active calls is located, can succe (remote held user) to a three-way conversation, and notify the implie accordingly. The IUT should send a CPG message with the generic notification "conference established" to both implied parties. The event indicated	d remote party indicator set to							
Test purpose Served user initiates 3PTY Verify that the served user with two active calls is located, can succe (remote held user) to a three-way conversation, and notify the implie accordingly. The IUT should send a CPG message with the generic notification "conference established" to both implied parties. The event indicated	d remote party indicator set to							
Test purpose Served user initiates 3PTY Verify that the served user with two active calls is located, can succe (remote held user) to a three-way conversation, and notify the implie accordingly. The IUT should send a CPG message with the generic notification "conference established" to both implied parties. The event indicated	indicator set to							
Verify that the served user with two active calls is located, can succe (remote held user) to a three-way conversation, and notify the implie accordingly. The IUT should send a CPG message with the generic notification "conference established" to both implied parties. The event indicato	d remote party indicator set to							
 setup a call to user B; put this call on hold; join this call to a conference. I-MGCF interworking 								
SIP parameter INVITE: Content-Type: multipart/mixed, Content-Type: application/IS	SUP; CPG							
values encapsulated in the MIME body								
ISUP parameter CPG: Event indicator=progress, Generic notification=hold								
values CPG: Event indicator=progress, Generic notification=conference est	ablished							
Comments SIP-I SUT ISUP								
INVITE(IAM) → IAM								
180 Ringing(ACM) ← ← ACM								
200 OK INVITE(ANM) ← ANM								
ACK →								
Conversation								
INVITE(CPG, sendonly) → CPG(hold)								
200 OK INVITE(recvonly) ←								
ACK →								
INVITE(CPG, sendrecv) → CPG(confere	nce established)							
200 OK INVITE(sendrecv) ←	,							
ACK →								
Conversation	. 1911							
BYE(REL) → REL								
200 OK BYE(RLC) ← RLC								

TP413003	SIP reference: RFC 3261 [[4]		2.19 ²	ISUP reference: 12.5 [1], clause B.15, .8], clauses 2.4 and 2.2.1		
TSS reference	ISUP-SIP-ISUP/SS/3PTY						
SIP selection							
criteria							
ISUP selection							
criteria							
SIP parameter values	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	rication=cor	nrere	nce established		
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+			
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
		Co	onversation	า			
	CASE A						
	CPG(conference established)	→		→	INFO(CPG)		
				+	200 OK INFO		
	CASE B						
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)		
				←	200 OK INVITE(sendrecv)		
				→	ACK		
			onversation				
	REL	→		→	BYE(REL)		
	RLC	←		+	200 OK BYE(RLC)		

TP413004	SIP reference: RFC	3261 [4	4]	Q.7	ISUP reference: Q.1912.5 [1], clause B.15, 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 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. I-MGCF interworking.								
SIP parameter	INFO/INVITE: Content-Type	: multip	art/mixed,	Conten	t-Type: application/ISUP; CPG				
values	encapsulated in the MIME b		•		,				
ISUP parameter values	CPG: Event indicator=progr	ess, Ge	neric notifi	cation=	conference established				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			onversati	on					
	INFO(CPG)	→		→	CPG(conference established)				
	200 OK INFO	←							
	CASE B								
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)				
	200 OK INVITE(sendrecv)	+							
	ACK	→							
			onversati	on					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	←		←	RLC				

TP413005	SIP reference: RFC 3261 [4]		Q.19 ²	ISUP reference: 12.5 [1], clause B.15,						
T00	LIQUID OUR LICE TO COME		Q.73	34.2 [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 com	munica	ation with a	rem	ote user						
root pan pood	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									
ISUP parameter	CPG 1, 4: Event indicator=progress,	Generi	c notification	=hol	d						
values	CPG 5: Event indicator=progress, G										
	CPG 2: Event indicator=progress, Ge	eneric n	otification=c	onfe	rence established						
	CPG 3: Event indicator=progress, G	eneric n		onfe							
Comments	ISUP		SUT		SIP-I						
	IAM	→		→	INVITE(IAM)						
	ACM	+		+	180 Ringing(ACM)						
	ANM	←		+	200 OK INVITE(ANM)						
				→	ACK						
		С	onversatio	n							
	CASE A			 _							
	CPG 1(hold)	→		→	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				→	ACK						
				<u> </u>							
	CPG 2(conference established)	→		→	INVITE(CPG, sendrecv)						
				←	200 OK INVITE(sendrecv)						
				→	ACK						
				-	INTER(ODE)						
	CPG 3(conference disconnected)	→		→	INFO(CPG)						
				+	200 OK INFO						
	CPG 4(hold)	→		→	INVITE(CPG, sendonly)						
	CPG 4(floid)	7		+	200 OK INVITE(recvonly)						
				→	ACK						
				-	ACK						
	CPG 5(retrieve)	→		→	INVITE(CPG, sendrecv)						
	Of O Stretheve)			′	200 OK INVITE(sendrecv)						
				→	ACK						
			onversatio		1						
	CPG 6(conference established)	→	21.10.04.10		INFO(CPG)						
	The state of the s	 		-	200 OK INFO						
				T							
		С	onversatio	n							
	REL	→		→	BYE(REL)						
	RLC	-		+	200 OK BYE(RLC)						
	CASE B										
	CPG 1(hold)	→		→	INVITE(CPG, sendonly)						
	,			+	200 OK INVITE(recvonly)						
				→	ACK						
	CPG 2(conference established)	→		→	INVITE(CPG, sendrecv)						
				+	200 OK INVITE(sendrecv)						
				→	ACK						
	CPG 3(conference disconnected)	→		→	INVITE(CPG,sendrecv)						
				+	200 OK INVITE(sendrecv)						
				→	ACK						
	CPG 4(hold)	→		→	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						

			→	ACK
CPG 5(retrieve)	1			INVITE(CPG, sendrecv)
			+	200 OK INVITE(sendrecv)
			→	ACK
	С	onversation	1	
CPG 6(conference established)	→		→	INVITE(CPG,sendrecv)
			+	200 OK INVITE(sendrecv)
			→	ACK
	С	onversation)	
REL	→		→	BYE(REL)
RLC	+		+	200 OK BYE(RLC)

TSS reference 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 user. The appropriate notification received in a INVITE/INFO (CPG) and is sent in C messages to the ISUP. I-MGCF interworking. SIP parameter values 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 CPG: Event indicator=progress, Generic notification=conference disconnected SIP-I SUT ISUP INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM) ACK Conversation CASE A INVITE(CPG, sendonly) 200 OK INVITE(recvonly) ACK → CPG(hold)	TP413006	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], clause B.15, Q.734.2 [i.8], clause 2.5.2.1.1.3					
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200 OK INVITE(sendrecv) ←		AON		+						
200 OK INVITE(sendrecv) ←		INVITE(CPG sandragy)	-	+	7	CPG(conference disconnected)				
				+	+-	O O(OOMOTOTIOE disconfilected)				
AUN 7				+	+	+				
		, tolt	+							
INVITE(CPG, sendonly) → CPG(hold)		INVITE(CPG_sendonly)	→		-	CPG(hold)				
200 OK INVITE(recvonly)				1	+ ~	(1.5(1.5(d)				

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

TP413007	SIP reference: RFC 3261 [4]		ISUP reference:						
		_			2.5 [1], clause B.15,				
			Q.73	4.2 [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	Verify that the IUT (controlling the co private communication with the active messages to the user. O-MGCF interworking.								
SIP parameter values	INFO/INVITE: Content-Type: multipa encapsulated in the MIME body	ırt/mixed	l, Content-Ty	/pe: a	application/ISUP; CPG				
ISUP parameter	CPG: Event indicator=progress, Gen	eric noti	fication=con	ferer	nce established				
values	CPG: Event indicator=progress, Gen								
Comments	ISUP	1.0.100	SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+			180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
		Conversation							
	CASE A	Ī							
	CPG(conference established)	→		→	INFO(CPG)				
				+	200 OK INFO				
	CPG(conference disconnected)	→		→	INFO(CPG)				
	,			+	200 OK INFO				
		Co	onversation)					
	CPG(conference established)	→		→	INFO(CPG)				
				+	200 OK INFO				
		Co	onversation)					
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				
	CASE B								
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)				
				+	200 OK INVITE(sendrecv)				
				→	ACK				
	CPG(conference disconnected)	→		→	INVITE(CPG,sendrecv)				
				+	200 OK INVITE(sendrecv)				
				→	ACK				
	Conversation								
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)				
				←	200 OK INVITE(sendrecv)				
				→	ACK				
		Co	onversation)					
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP413008	SIP reference: RFC 3261 [4]				ISUP reference:					
	.,			Q.1912.5 [1], clause B.15,						
				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	<u> </u>			•••	,					
Test purpose	Served user creates a prival									
					PTY call can successfully create appropriate notification is sent in CPG					
	messages to the user.	ne ac	live-idle user	i. The a	appropriate notification is sent in CPG					
	I-MGCF interworking.									
SIP parameter		· multi	inart/mixed (Conten	t-Type: application/ISUP; CPG					
values	encapsulated in the MIME be		ipar (Triixca, V	Conten	t Type: application/1661 , 61 G					
ISUP parameter	CPG: Event indicator=progre		eneric notific	cation=	conference established					
values	CPG: Event indicator=progre									
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
	Conversation									
	CASE A									
	INFO(CPG)	→		→	CPG(conference established)					
	200 OK INFO	+								
	INFO(CPG)	→		→	CPG(conference disconnected)					
	200 OK INFO	+	<u> </u>							
		Conversation								
	INFO(CPG)	→		→	CPG(conference established)					
	200 OK INFO	+	0							
	DVE(DEL)		Conversation		DEL					
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC) CASE B	-	-	+	RLC					
	UMOE D	+	Conversation							
	INVITE(CPG,sendrecv)	→		}	CPG(conference established)					
	200 OK INVITE(sendrecv)	-	 		Or O(contenence established)					
	ACK	→								
	,	+-	1	+						
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)					
	200 OK INVITE(sendrecv)	+		<u> </u>	- (
	ACK	→								
			Conversation	on						
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
			Conversation	on						
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP413009	SIP reference: RFC 3261 [4]			2.191	SUP reference: 2.5 [1], clause B.15, .8], clause 2.5.2.1.1.3 b)						
TSS reference	ISUP-SIP-ISUP/SS/3PTY			· L	,,						
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	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-held 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	INFO/INVITE: Content-Type: multipart	/mixed	d, Content-Ty	vpe: a	application/ISUP; CPG						
values	encapsulated in the MIME body		•	•							
ISUP parameter	CPG: Event indicator=progress, Gene										
values	CPG: Event indicator=progress, Gene										
Comments	ISUP		SUT		SIP-I						
	IAM	→		→	INVITE(IAM)						
	ACM	+		+	180 Ringing(ACM)						
	ANM	+		+	200 OK INVITE(ANM)						
				→	ACK						
		С	onversation	1							
	CPG(conference established)	→		→	INFO(CPG)						
				+	200 OK INFO						
	CPG(conference disconnected)	→		→	INFO(CPG)						
				+	200 OK INFO						
		С	onversation	1							
	REL	→		→	BYE(REL)						
	RLC	+		+	200 OK BYE(RLC)						
					\ /						
	CASE B	1									
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)						
				+	200 OK INVITE(sendrecv)						
				→	ACK						
	CPG(conference disconnected)	→		→	INVITE(CPG,sendrecv)						
		T		+	200 OK INVITE(sendrecv)						
		1		→	ACK						
		С	onversation	<u> </u>							
	REL	→		→	BYE(REL)						
	RLC	+		+	200 OK BYE(RLC)						
		† <u> </u>									

TP413010	SIP reference: RFC	3261	[4]		ISUP reference: Q.1912.5 [1], clause B.15,					
				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	Verify that the IUT (controlling the active-held user and retain messages. The IUT should send to the active results and the send to the	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"								
SIP parameter		: mult	ipart/mixed.	Conten	t-Type: application/ISUP; CPG					
values	encapsulated in the MIME be	ody	•							
ISUP parameter	CPG: Event indicator=progre	ess, G	eneric notifi	cation=	conference established					
values	CPG: Event indicator=progre									
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		←	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
	Conversation									
	CASE A									
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
			Conversati	on						
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					
	CASE B									
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
			Conversati	on						
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					
	,									

TP413011	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause B.15, 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 one remot	e use	r and retain	s 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.										
SIP parameter	INFO/INVITE: Content-Type: multipart	/mixe	d, Content-Ty	/pe: a	application/ISUP; CPG						
values	encapsulated in the MIME body										
ISUP parameter	CPG: Event indicator=progress, General										
values	CPG: Event indicator=progress, General										
	CPG: Event indicator=progress, General	ric not		ferer							
Comments	ISUP		SUT		SIP-I						
	IAM	→		→	INVITE(IAM)						
	ACM	+		+	180 Ringing(ACM)						
	ANM	+		+	200 OK INVITE(ANM)						
				→	ACK						
		С	onversation	1							
	CASE A										
	CPG(hold)	→		→	INVITE(CPG, sendonly)						
	(1111)				200 OK INVITE(recvonly)						
				→	ACK						
					, tert						
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)						
	Of O(contenence established)			′	200 OK INVITE(sendrecv)						
				→	ACK						
				7	ACK						
	CDC(conference disconnected)	_		_	INEO(CDC)						
	CPG(conference disconnected)	→		<u>→</u>	INFO(CPG) 200 OK INFO						
				_	200 OK INFO						
	ODO(h - L-l)	→		_	INIVITE/ODO da ala						
	CPG(hold)	7		→	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				→	ACK						
	251										
	REL	→		→	BYE(REL)						
	RLC	+		+	200 OK BYE(RLC)						
	CASE B										
	CPG(hold)	→		→	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				→	ACK						
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)						
				+	200 OK INVITE(sendrecv)						
				→	ACK						
	CPG(conference disconnected)	→		^	INVITE(CPG,sendrecv)						
				4	200 OK INVITE(sendrecv)						
				→	ACK						
	2724 17	<u> </u>									
	CPG(hold)	→		→	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				→	ACK						
	REL	→		→	BYE(REL)						
	RLC	+		+	200 OK BYE(RLC)						

TP413012	SIP reference: RFC	3261	[4]	0.	ISUP reference: Q.1912.5 [1], clause B.15,				
TCC reference	ICUD CID ICUD/CC/CDTV			Q.	734.2 [i.8], clause 2.5.2.1.1.3 b)				
TSS reference SIP selection	ISUP-SIP-ISUP/SS/3PTY								
criteria									
ISUP selection	+								
criteria									
Test purpose	Served user disconnects of	ne re	mote user ar	nd reta	ains the other				
	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.								
SIP parameter			part/mixed, C	onten	t-Type: application/ISUP; CPG				
values	encapsulated in the MIME bo								
ISUP parameter values	CPG: Event indicator=progre CPG: Event indicator=progre CPG: Event indicator=progre	ss, G	eneric notifica	ation=d	conference established				
Comments	SIP-I	1	SUT	1	ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→		<u> </u>					
	7.0		Conversatio	n					
	CASE A								
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	→							
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)				
	200 OK INVITE(sendrecv)	+							
	ACK	→							
	INFO(CPG)	→		→	CPG(conference disconnected)				
	200 OK INFO	+							
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	→							
	D)/E/DEL)	_	1		DEL				
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	-		+	RLC				
	CASE B INVITE(CPG, sendonly)	→		→	CPC/hold)				
	200 OK INVITE(recvonly)	7		+	CPG(hold)				
	ACK	→							
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)				
	200 OK INVITE(sendrecv)	′		+-	S. S(SCITICISTICS SCIADIISTICS)				
	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 BYE(RLC)	+		+	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	PICS 5/23				
criteria					
ISUP selection criteria					
Test purpose	Service 1 implicit re Ensure that the SU the encapsulated IA	· T can successfu	ılly transfer		M ser service 1 implicit request in
SIP parameter	INVITE: Content-Ty	pe: multipart/m	ixed, Conte	nt-Type: appli	cation/ISUP; IAM containing
values	the user-to-user info	ormation param	eter encaps	sulated in the I	MIME body
ISUP parameter values	IAM: User-to-user in	nformation para	meter		
Comments	ISUP		SUT	•	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		←	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP414002	SIP reference: RF	C 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	PICS 5/23				
criteria					
Test purpose	Service 1 implicit request:	User-to-	-user informa	tion in the IN\	/ITE
SIP parameter values ISUP parameter values	the encapsulated IAM. I-M INVITE: Content-Type: muthe user-to-user informatic IAM: User-to-user informatic	IGCF int ultipart/m on param	erworking. nixed, Conter neter encaps	nt-Type: applic	
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		-	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversa	tion	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP414003	SIP referer	nce: RFC 3261 [4]		ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS	JUUS1			
SIP selection	PICS 5/23				
criteria					
ISUP selection criteria					
Test purpose	Service 1 explicit re Ensure that the SU not essential in the	T can successfu	ılly transfer	the User-to-u	ser service 1 explicit request
SIP parameter					cation/ISUP; IAM containing
values	the user-to-user inc	dicator paramete	r encapsula	ated in the MII	ME body
ISUP parameter values	IAM: User-to-user i request not essenti	•	meter, Use	r-to-user indic	ator = service 1 explicit
Comments	ISUP		SUT	-	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	REL	→		→	BYE(REL)
	RLC	+	<u>-</u>	+	200 OK BYE(RLC)

TP414004	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	PICS 5/23										
ISUP selection criteria											
Test purpose	Service 1 explicit request: U					E er service 1 explicit request					
	essential received in the IAN					or corrido i expirenti equest					
SIP parameter values	INVITE: Content-Type: mult the user-to-user indicator pa 180 Ringing: Content-Type: parameter encapsulated in	aramete applica the MIN	er encapsul ation/ISUP; //E body	ated in th ACM cor	e MIM ntainin	IE body g the user-to-user indicator					
ISUP parameter values	IAM: User-to-user information request essential ACM: User-to-user indicator	-				·					
Comments	ISUP		SU	Γ		SIP-I					
	IAM	→			→	INVITE(IAM)					
	ACM	+			+	180 Ringing(ACM)					
	ANM	+			+	200 OK INVITE(ANM)					
					→	ACK					
			Convers	ation							
	REL	→			→	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	PICS 5/23	PICS 5/23										
Test purpose	Ensure that the SUT can su	Service 1 explicit request: User-to-user indicator in the INVITE Ensure that the SUT can successfully transfer the User-to-user service 1 explicit request essential received in the encapsulated IAM. I-MGCF interworking.										
SIP parameter values	INVITE: Content-Type: mult the user-to-user indicator pa 180 Ringing: Content-Type: parameter encapsulated in	aramete applica	er encapsulation/ISUP;	ated in th	e MIM	E body						
ISUP parameter values	IAM: User-to-user information request essential ACM: User-to-user indicator	on para	meter, Use									
Comments	SIP-I		SUT			ISUP						
	INVITE(IAM)	→			→	IAM						
	180 Ringing(ACM)	+			+	ACM						
	200 OK INVITE(ANM)	+			←	ANM						
	ACK	↑										
			Convers	ation								
	BYE(REL)	→			→	REL						
	200 OK BYE(RLC)	+		•	+	RLC						

TP414006	SIP reference: RFC	3261	[4]		ISUP reference: 912.5 [1], clause B.21, 10], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1				
SIP selection	PICS 5/23				
criteria					
ISUP selection					
criteria					
Test purpose	Service 1 implicit response:	User-t	o-user infor	mation in the	ACM
	in the encapsulated ACM. O-MGCF interworking.				user service 1 implicit response
SIP parameter	Service 1 implicit response:	User-t	o-user infor	mation in the	180 Ringing
values	INDUTE O 1 1 T	,			I: :: /IOLID IAAA : : :
					lication/ISUP; IAM containing
	the user-to-user information				
	parameter encapsulated in t			ACIVI contair	ning the user-to-user information
ISUP parameter	IAM: User-to-user information				
values	ACM: User-to-user information				
Comments	ISUP	ion pai	SU	г	SIP-I
Commonto	IAM	→		-	
	ACM			+	
	ANM	÷		+	
	7.1.1111			-	
			Convers		
	REL	→		-	BYE(REL)
	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	PICS 5/23										
Test purpose	Service 1 implicit response: User-to-user information in the ACM Ensure that the SUT can successfully transfer the User-to-user service 1 implicit response in the encapsulated ACM. I-MGCF interworking.										
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)	→			→	IAM					
	180 Ringing(ACM)	+			+	ACM					
	200 OK INVITE(ANM)	+			+	ANM					
	ACK	→									
			Convers	ation							
	BYE(REL)	→			→	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	PICS 5/23								
ISUP selection criteria									
Test purpose	Ensure that the SUT can su	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.							
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	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
			Convers	ation					
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP414009	SIP reference: RFC	3261	[4]		I	SUP reference:
				Q.	.191	2.5 [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	PICS 5/23					
criteria						
Test purpose	Service 1 explicit response	service	1 not provi	ded in the A	4CN	1
		ccessf	ully transfer	the User-to	o-us	er 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 conta	ainin	g the user-to-user indicator
	parameter encapsulated in					
ISUP parameter	IAM: User-to-user information	on para	meter, Use	r-to-user in	dica	tor set to service 1 request
values	not essential					
	ACM: User-to-user indicator	r set to			res	
Comments	SIP-I		SU			ISUP
	INVITE(IAM)	→			<u> </u>	IAM
	180 Ringing(ACM)	+			<u> </u>	ACM
	200 OK INVITE(ANM)	+		•	(ANM
	ACK	→				
			Convers			
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	←		•	(RLC

TP414010	SIP reference: RFC	3261	[4]	C		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	PICS 5/23							
ISUP selection criteria								
Test purpose		Ensure that the SUT can successfully transfer the User-to-user service 1 discarded by the network in the encapsulated ACM. O-MGCF interworking.						
SIP parameter values	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing the user-to-user information parameter encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; ACM containing the User-to-user indicator parameter encapsulated in the MIME body							
ISUP parameter	IAM: User-to-user information							
values	ACM: User-to-user indicator	r set to	discarded b	y the nety	vork r	esponse		
Comments	ISUP		SUT	•		SIP-I		
	IAM	→			→	INVITE(IAM)		
	ACM	←			←	180 Ringing(ACM)		
	ANM	+			+	200 OK INVITE(ANM)		
					→	ACK		
			Conversa	ation				
	REL	→			→	BYE(REL)		
	RLC	←			←	200 OK BYE(RLC)		

TP414011	SIP reference: RFC	3261	[4]		-	SUP reference:		
						2.5 [1], clause B.21,		
TSS reference	ISUP-SIP-ISUP/SS/UUS1			Q./3/	[1.10], clauses 1.1.5.2.3 and 4		
SIP selection	1307-317-1307/33/0031							
criteria								
ISUP selection	PICS 5/23							
criteria								
Test purpose				the User-	to-us	er service 1 discarded by the		
	network in the encapsulated	ACM.						
	I-MGCF interworking.							
SIP parameter		INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing						
values	the user-to-user information							
				ACM conf	ainin	g the User-to-user indicator		
	parameter encapsulated in							
ISUP parameter	IAM: User-to-user information							
values	ACM: User-to-user indicator	r set to	discarded b	y the netv	vork r	response		
Comments	SIP-I		SUT			ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	←			←	ACM		
	200 OK INVITE(ANM)	+			←	ANM		
	ACK →							
			Convers	ation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+	-		+	RLC		

5.3.14.2 User-to-user service 2

TP414101	SIP reference: RFC	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/UUS2							
SIP selection	PICS 5/23							
criteria								
ISUP selection criteria								
Test purpose	Service 2 request not esser	Service 2 request not essential transferred in the INVITE						
	and User-to user information information is sent in a USR O-MGCF interworking.	Ensure that the SUT can successfully transfer the User-to-user service 2 explicit request and User-to user information in the encapsulated IAM. An additional User-to-user information is sent in a USR message encapsulated in an INFO request.						
SIP parameter	INVITE: Content-Type: mult	ipart/m	ixed, Conte	nt-Type: appli	cation/ISUP; IAM containing			
values	the user-to-user indicator ar							
	INFO: Content-Type: applic			ontaining the I	User-to-user information			
	parameter encapsulated in							
ISUP parameter	IAM: User-to-user information		ımeter, User	-to-user indica	ator			
values	USR: User-to-user informati	ion	1					
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	←		←	180 Ringing(ACM)			
	ANM	+		←	200 OK INVITE(ANM)			
				→	ACK			
			Conversa	ition				
	USR	→		→	INFO(USR)			
				+	200 OK INFO			
	LIOD				INITO (LIOP)			
	USR	+		+	INFO(USR)			
				→	200 OK INFO			
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP414102	SIP reference: RF	C 3261	[4]		2.5 [⁻	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/UUS2	<u>!</u>						
SIP selection criteria								
ISUP selection criteria	PICS 5/23							
Test purpose	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	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 parameter encapsulated in the MIME body							
ISUP parameter	IAM: User-to-user informa	tion para	meter, Usei	-to-user ii	ndica	ator		
values	USR: User-to-user information	ation						
Comments	SIP-I		SUT	•		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Convers	ation				
	INFO(USR)	→			→	USR		
	200 OK INFO	+						
	INFO(USR)	+			←	USR		
	200 OK INFO	→						
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP414103	SIP reference: RFC	3261	[4]		Q.191	SUP reference: 12.5 [1], clause B.21,)], clauses 1.2.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS2							
SIP selection criteria	PICS 5/23							
ISUP selection criteria								
Test purpose	Service 2 response not provided transferred in the ACM Ensure that the SUT can successfully transfer the User-to-user service 2 explicit response not provided in the encapsulated ACM. I-MGCF interworking.							
SIP parameter values	INVITE: Content-Type: mult the user-to-user information	param applica	eter encaps ation/ISUP;	sulated in	the N			
ISUP parameter values	IAM: User-to-user information ACM: User-to-user indicator							
Comments	ISUP		SUT			SIP-I		
	IAM	→			→	INVITE(IAM)		
	ACM	←			←	180 Ringing(ACM)		
	ANM	+			+	200 OK INVITE(ANM)		
	→ ACK							
			Convers	ation				
	REL	→			→	BYE(REL)		
	RLC	+			+	200 OK BYE(RLC)		

TP414104	SIP reference: RFC	3261	[4]	G		SUP reference: 2.5 [1], clause B.21,			
				Q.737	[i.10]], clauses 1.2.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS2								
SIP selection criteria									
ISUP selection criteria	PICS 5/23								
Test purpose	Service 2 response not prov	vided tr	ansferred in	the ACM					
	not provided in the encapsu	Ensure that the SUT can successfully transfer the User-to-user service 2 explicit response not provided in the encapsulated ACM. I-MGCF interworking.							
SIP parameter	INVITE: Content-Type: mult								
values	the user-to-user indicator pa								
	180 Ringing: Content-Type:			ACM cont	tainin	g the user-to-user indicator			
	parameter encapsulated in								
ISUP parameter	IAM: User-to-user information								
values	ACM: User-to-user indicator	r set to	service 2 n	ot provided	d resp	ponse			
Comments	SIP-I		SUT	Γ		ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	→							
			Convers	ation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	+			+	RLC			

5.3.14.3 User-to-user service 3

TP414201	SIP reference: RF0	C 3261	[4]		ISUP reference: 1], clauses 5.4.3 and B.21,
					0], clauses 5.4.5 and 6.21,
TSS reference	ISUP-SIP-ISUP/SS/UUS3				-4/
SIP selection	PICS 5/23				
criteria					
ISUP selection criteria					
Test purpose	the encapsulated IAM. Add encapsulated in an INFO re O-MGCF interworking.	litional l equest.	Jser-to-use	r information is	ser service 3 explicit request in sent in several USR message
SIP parameter					cation/ISUP; IAM containing
values	the user-to-user indicator e				
	INFO: Content-Type: applic			containing the	User-to-user information
IOUD	parameter encapsulated in				
ISUP parameter values	IAM: User-to-user informati		imeter, Use	r-to-user indic	ator
Comments	ISUP		SU ⁻	Г	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		-	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	USR	→		→	INFO(USR)
				+	200 OK INFO
	USR	+		+	INFO(USR)
				→	200 OK INFO
	1100	_		-	NIEG(110D)
	USR	+		<u> </u>	INFO(USR)
				→	200 OK INFO
	USR	→		→	INFO(USR)
				+	200 OK INFO
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP414202	SIP reference: RI	FC 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	PICS 5/23							
criteria								
Test purpose	the encapsulated IAM. Ac encapsulated in an INFO I-MGCF interworking.	Ensure that the SUT can successfully transfer the User-to-user service 3 explicit request in the encapsulated IAM. Additional User-to-user information is sent in several USR message encapsulated in an INFO request.						
SIP parameter					cation/ISUP; IAM containing			
values	INFO: Content-Type: app parameter encapsulated in the content of t	the user-to-user indicator encapsulated in the MIME body INFO: Content-Type: application/ISUP; USR containing the User-to-user information parameter encapsulated in the MIME body						
ISUP parameter	IAM: User-to-user informa		ımeter, Use	r-to-user indic	ator			
values	USR: User-to-user inform	ation	•					
Comments	SIP-I		SU'		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	←		+	ANM			
	ACK	→						
			Convers					
	INFO(USR)	→		→	USR			
	200 OK INFO	+						
	INFO(USR)	+		+	USR			
	200 OK INFO	→						
	INFO(USR)	+		+	USR			
	200 OK INFO	→						
	INFO(USR)	→		→	USR			
	200 OK INFO	+						
	BYE(REL)	→		→	REL			
	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	ISUP-SIP-ISUP/SS/UUS3						
SIP selection	PICS 5/23							
criteria								
ISUP selection								
criteria								
Test purpose	confirmed state can success	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 u	user-to-user indicator			
values	encapsulated in the MIME b	ody		•				
	INFO: Content-Type: applic		SUP; FAA c	ontaining the ι	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 informati	ion		_	loip i			
Comments	ISUP		SU'		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	←		-	180 Ringing(ACM)			
	ANM	+		<u> </u>	200 OK INVITE(ANM)			
	→ ACK							
	Conversation							
	FAR	→		→	INFO(FAR)			
				+	200 OK INFO			
	FAA	+		+	INFO(FAA)			
	1700			→	200 OK INFO			
					200 011 111 0			
	USR	→		→	INFO(USR)			
				+	200 OK INFO			
					200 011 111 0			
	USR	+		+	INFO(USR)			
	- 5			→	200 OK INFO			
					200 0111111			
	USR	+		+	INFO(USR)			
		_		→	200 OK INFO			
				-				
	USR	→		→	INFO(USR)			
				+	200 OK INFO			
				<u> </u>				
	REL	→		→	BYE(REL)			
	RLC	-		,	200 OK BYE(RLC)			
	ILLO		<u> </u>		1200 OK DIE(NEO)			

TP414204	SIP reference: RF	[4]	ISUP reference:					
					5 [1], clau	ses 5.4.3 and B.21, ses 1.2.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS3	ISUP-SIP-ISUP/SS/UUS3						
SIP selection								
criteria								
ISUP selection	PICS 5/23							
criteria								
Test purpose	confirmed state can succe several encapsulated USF I-MGCF interworking.	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 th	ie user-to-i	user indicator		
values	INFO: Content-Type: appl encapsulated in the MIME INFO: Content-Type: appl parameter encapsulated in	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAA containing the user-to-user indicator encapsulated in the MIME body INFO: Content-Type: application/ISUP; USR containing the User-to-user information parameter encapsulated in the MIME body						
ISUP parameter	FAR: User-to-user indicate	or service	e 3 request	not essentia	al			
values	FAA: User-to-user indicate		e 3 respons	e provided				
	USR: User-to-user informa	ation	-	•				
Comments	SIP-I		SU'	Т	ISUP			
	INVITE(IAM)	→			→ IAM			
	180 Ringing(ACM)	+		1	← ACM			
	200 OK INVITE(ANM)	+		1	← ANM			
	ACK	→						
	Conversation							
	INFO(FAR)	→			→ FAR			
	200 OK INFO	+						
	INFO(FAA)	+			F FAA			
	200 OK INFO	→						
	INFO(USR)	→			→ USR			
	200 OK INFO	+						
	INFO(USR)	+			← USR			
	200 OK INFO	<u>→</u>			33.1			
		1 -						
	INFO(USR)	+			← USR			
	200 OK INFO	→			- 30.1			
		-						
	INFO(USR)	→			→ USR			
	200 OK INFO	'			2 30.1			
	200 010 1111 0	-						
	BYE(REL)	→		<u> </u>	→ REL			
	200 OK BYE(RLC)	+			RLC			
	1200 ON DIE(NEO)	_	l	1	INLU			

TP414205	SIP reference: RFC	3261	[4]	Q.19 ²	SUP reference: 12.5 [1], clause B.21,)], clauses 1.2.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS3						
SIP selection criteria	PICS 5/23						
ISUP selection criteria							
Test purpose	Ensure that the SUT can successfully transfer the User-to-user service 3 explicit response 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 s	service 3 req	uest			
values	ANM: User-to-user indicator	r set to	service 3 pro	ovided respon	se		
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			Conversa	tion			
	REL	→		→	BYE(REL)		
	RLC	+	_	+	200 OK BYE(RLC)		

TP414206	SIP reference: RF0	erence: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause B.21, Q.737 [i.10], clauses 1.2.5.2.3 and								
TSS reference	ISUP-SIP-ISUP/SS/UUS3									
SIP selection										
criteria										
ISUP selection criteria	PICS 5/23	PICS 5/23								
Test purpose	Ensure that the SUT can so in the encapsulated ANM. O-MGCF interworking.									
SIP parameter values	INVITE: Content-Type: multhe user-to-user indicator p 200 OK INVITE: Content-T indicator parameter encaps	aramet ype: ap	er encapsula plication/ISU	ated in the M JP; ANM con	IME body					
ISUP parameter	IAM: User-to-user indicator	set to s	service 3 rec	uest						
values	ANM: User-to-user indicate	or set to	service 3 pr	ovided respo	nse					
Comments	SIP-I		SUT	-	ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
			Conversa	ation		·				
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP414207	SIP reference: RFC	3261	[4]	Q.1912.5 [²	SUP reference: I], clauses 5.4.3 and B.21, I], clauses 1.2.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS3			_	-
SIP selection	PICS 5/23				
criteria					
ISUP selection					
criteria					
Test purpose	Ensure that a User-to-user confirmed state can success				an INFO request during the request is rejected.
SIP parameter	INFO: Content-Type: applic		SUP; FAR c	ontaining the u	ser-to-user indicator
values	encapsulated in the MIME b				
	INFO: Content-Type: applic		SUP; FRJ c	ontaining the u	ser-to-user indicator
	encapsulated in the MIME b				
ISUP parameter	FAR: User-to-user indicator		•		
values	FRJ: User-to-user indicator	service			
Comments	ISUP		SU'		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		-	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	FAR	→		→	INFO(FAR)
				+	200 OK INFO
	FRJ	+		+	INFO(FRJ)
				→	200 OK INFO
	REL	→		→	BYE(REL)
	RLC	+		+	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	PICS 5/23				
criteria					
Test purpose	Ensure that a User-to-use	r request	service 3 e	encapsulated in	n an INFO request during the
	confirmed state can succe				
SIP parameter	INFO: Content-Type: appl		SUP; FAR c	ontaining the u	ser-to-user indicator
values	encapsulated in the MIME				
	INFO: Content-Type: appl		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 indicate	or service			
Comments	SIP-I		SU	Γ	ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		-	ACM
	200 OK INVITE(ANM)	+		-	ANM
	ACK	→			
			Convers	ation	
	INFO(FAR)	→		→	FAR
	200 OK INFO	+			
	INFO(FRJ)	+		←	FRJ [i.10]
	200 OK INFO	→			
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

5.3.15 Closed User Group (CUG)

TP415001	SIP reference: RFC	3261 [4]		ISUP reference: 0.1912.5 [1], clauses 5.4.3 and B.16, 0.735 [i.9], clauses 1.5.2.3 and 1.5.2.4				
TSS reference	ISUP-SIP-ISUP/SS/CUG								
SIP selection criteria	PICS 5/22								
ISUP selection criteria	PICS 5/22								
Test purpose	Ensure that on receipt of an INVITE with encapsulated ISUP IAM containing a CUG Interlock code parameter and an optional Forward call indicator set to 'outgoing access allowed', an ISUP IAM is sent and the CUG Interlock code is and in addition the optional Forward call indicator is transferred from the received encapsulated IAM.								
SIP parameter values	Closed user g	INVITE(IAM): IAM Optional forward call indicator Closed user group call indicator closed user group call, outgoing access allowed							
ISUP parameter	IAM								
values	Optional forward call ind Closed user group control closed user group Closed user group interl	all indic p call, o	utgoing acc	cess allowed					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	←		+	- ACM				
	200 OK INVITE(ANM)	←		+	ANM				
	ACK	→	· · · · · · · · · · · · · · · · · · ·						
			Convers	ation					
	BYE(REL)	→		7	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP415002	SIP reference: RFC	3261	[4]		5 [1]	SUP reference: , clauses 5.4.3 and B.16, :lauses 1.5.2.3 and 1.5.2.4			
TSS reference	ISUP-SIP-ISUP/SS/CUG			<u> </u>					
SIP selection criteria	PICS 5/22								
ISUP selection criteria	PICS 5/22	PICS 5/22							
Test purpose	Ensure that on receipt of an optional Forward call indicated CUG Interlock code is presented.	O-IWU: Successful call setup with CUG 'outgoing access allowed' Ensure that on receipt of an ISUP IAM containing a CUG Interlock code parameter and an optional Forward call indicator set to 'outgoing access allowed', an INVITE is sent and the CUG Interlock code is present in the encapsulated IAM and in addition the optional Forward call indicator is transferred from the received IAM.							
SIP parameter values	INVITE(IAM): IAM Optional forward Closed user g closed user Closed user grou	group c er grou	all indicator p call, outgo	oing access	allo	wed			
ISUP parameter	IAM								
values	Optional forward call ind Closed user group ca closed user group Closed user group interl	all indic o call, c	outgoing acc	cess allowed	d				
Comments	ISUP		SUT			SIP-I			
	IAM	↑			→	INVITE(IAM)			
	ACM	4		•	F	180 Ringing(ACM)			
	ANM	+				200 OK INVITE(ANM)			
					>	ACK			
			Convers	ation					
	REL	↑			→	BYE(REL)			
	RLC	4		•	Ŧ	200 OK BYE(RLC)			

TP415003	SIP reference: RFC	3261 [4]		I	SUP reference:					
		_	_	Q.1912	2.5 [1], clauses 5.4.3 and B.16,					
				Q.735 [i	i.9], (clauses 1.5.2.3 and 1.5.2.4					
TSS reference	ISUP-SIP-ISUP/SS/CUG										
SIP selection	PICS 5/22	PICS 5/22									
criteria											
ISUP selection	PICS 5/22										
criteria											
Test purpose	I-IWU: Successful call setup with CUG 'outgoing access not allowed'										
	Ensure that on receipt of an	INVITE	with encar	sulated IS	SUP	IAM containing a CUG					
						tor set to 'outgoing access not					
	allowed', an ISUP IAM is ser										
	Forward call indicator is tran										
SIP parameter	INVITE(IAM):										
values	ÌAM ´										
	Optional forward	call indi	icator								
	Closed user g										
			call, outgo	ing access	s allo	owed					
	Closed user grou	p interlo	ock code								
ISUP parameter	IAM										
values	Optional forward call indi										
	Closed user group ca										
	closed user group			ess not al	lowe	ed					
0	Closed user group interlo	оск соа				loup					
Comments	SIP-I	_	SUT			ISUP					
	INVITE(IAM)	→			<u>→</u>	IAM					
	180 Ringing(ACM)	+			<u>+</u>	ACM					
	200 OK INVITE(ANM) ← ANM										
	ACK	→	•								
	DVE (DEL)		Conversa			DEL					
	BYE(REL)	→			<u>→</u>	REL					
	200 OK BYE(RLC)	+			-	RLC					

TP415004	SIP reference: RFC	3261	[4]		I	SUP reference:				
		'		Q.1912	.5 [1], clauses 5.4.3 and B.16,				
				Q.735 [i	.9], c	clauses 1.5.2.3 and 1.5.2.4				
TSS reference	ISUP-SIP-ISUP/SS/CUG			_						
SIP selection	PICS 5/22	PICS 5/22								
criteria										
ISUP selection	PICS 5/22									
criteria										
Test purpose	O-IWU: Successful call se	tup wi	th CUG 'ou	tgoing acc	cess	not allowed'				
						rlock code parameter and an				
						wed', an INVITE is sent and				
	the CUG Interlock code is pr					nd in addition the optional				
o.p.	Forward call indicator is tran	sterre	d from the re	eceived IAI	VI.					
SIP parameter	INVITE(IAM):									
values	IAM Ontional forward	!! :	l: 4 - "							
	Optional forward									
	Closed user g		an maicator p call, outgo		e not	allowed				
	Closed user grou			ning access	5 1101	allowed				
ISUP parameter	IAM	p inten	OUR COUC							
values	Optional forward call ind	icator								
	Closed user group ca		ator							
	closed user group			cess allowe	ed					
	Closed user group interle									
Comments	ISUP		SU			SIP-I				
	IAM	→			→	INVITE(IAM)				
	ACM	+			←	180 Ringing(ACM)				
	ANM	+			←	200 OK INVITE(ANM)				
					→	ACK				
			Convers	ation						
	REL	→			→	BYE(REL)				
	RLC	+			(200 OK BYE(RLC)				

TP415005	SIP reference: RFC	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clauses 5.4.3 and B.16,								
				Q.735 [i.9],	clauses 1.5.2.3 and 1.5.2.4				
TSS reference	ISUP-SIP-ISUP/SS/CUG									
SIP selection	PICS 5/22									
criteria										
ISUP selection	PICS 5/22									
criteria										
Test purpose	'outgoing access allowed	I-IWU: Call from a network supporting CUG to a network not supporting CUG; CUG 'outgoing access allowed'								
	Ensure that on receipt of an INVITE with encapsulated ISUP IAM containing a CUG Interlock code parameter and an optional Forward call indicator set to 'outgoing access allowed', an ISUP IAM is sent and no CUG Interlock code is present and the optional Forward call indicator is set to 'no CUG call' if present.									
SIP parameter	INVITE(IAM):									
values	IAM ´									
	Optional forward	call inc	dicator							
	Closed user									
			p call, outgo	oing acces	s all	owed				
	Closed user grou	ıp inter	lock code							
ISUP parameter	IAM									
values	Optional forward call inc									
	Closed user group c	ali indic	cator							
	OR parameter is not pre	cont								
Comments	SIP-I	36111	SU	Г		ISUP				
Comments	INVITE(IAM)	→		•	→	IAM				
	180 Ringing(ACM)	-			′	ACM				
	200 OK INVITE(ANM)	÷			`	ANM				
	ACK	→								
		<u> </u>	Convers	ation						
	BYE(REL)	→			→	REL				
	200 OK BYE(RLC)	+			-	RLC				

TP415006	SIP reference: RFC 3	3261	[4]		IS	SUP reference:				
			• •	Q.1912.	5 [1]	l, clauses 5.4.3 and B.16,				
						lauses 1.5.2.3 and 1.5.2.4				
TSS reference	ISUP-SIP-ISUP/SS/CUG		'							
SIP selection	PICS 5/22									
criteria										
ISUP selection	PICS 5/22									
criteria										
Test purpose	O-IWU: Call from a network	supp	orting CU	G to a netw	ork	not supporting CUG; CUG				
	'outgoing access allowed'									
	Ensure that on receipt of an I									
	optional Forward call indicato									
	CUG Interlock code is not pre Forward call indicator is set to				vı an	id in addition the optional				
SIP parameter	INVITE(IAM):	3 110 (JUG Call II	present.						
values	INVITE(IAW).									
values	Optional forward c	all ind	licator							
	Closed user gr									
	no CUG ca		an maioator							
	OR parameter is n	ot pre	sent							
ISUP parameter	IAM									
values	Optional forward call indic	cator								
	Closed user group cal	I indic	ator							
	closed user group			cess allowed	d					
	Closed user group interlo	ck cod								
Comments	ISUP		SUT	_		SIP-I				
	IAM	→				INVITE(IAM)				
	ACM	+				180 Ringing(ACM)				
	ANM	←				200 OK INVITE(ANM)				
					→	ACK				
			Convers							
	REL	→				BYE(REL)				
	RLC	-		•	-	200 OK BYE(RLC)				

TP415007	SIP reference: RF	C 3261	[4]	ISUP reference:						
				Q.1912.5 [1], clauses 5.4.3 and B.16, Q.735 [i.9], clause 1.4, Table 1-1						
TSS reference	ISUP-SIP-ISUP/SS/CUG									
SIP selection criteria										
ISUP selection criteria	NOT PICS 5/22									
Test purpose	I-IWU: Call from a network supporting CUG to a network not supporting CUG; CUG 'outgoing access not allowed'									
		nd an o	otional Forw	osulated ISUP IAM containing a CUG vard call indicator set to 'outgoing access not at.						
SIP parameter	INVITE(IAM):	•								
values	IAM									
	Optional forward									
	Closed user									
				ing access allowed						
10110	Closed user gro	up interl	ock code							
ISUP parameter values										
Comments	SIP-I		SUT	ISUP						
	INVITE(IAM)	→								
	5xx	←								
	ACK	→								

TP415008	SIP reference: RFC	3261	T41		ISUP reference:					
11 110000		0_0.		Q.191	2.5 [1], clauses 5.4.3 and	B.16.				
					35 [i.9], clause 1.4, Table					
TSS reference	ISUP-SIP-ISUP/SS/CUG									
SIP selection	NOT PICS 5/22									
criteria										
ISUP selection criteria										
Test purpose		O-IWU: Call from a network supporting CUG to a network not supporting CUG; CUG 'outgoing access not allowed'								
	Ensure that on receipt of an ISUP IAM containing a CUG Interlock code parameter and an optional Forward call indicator set to 'outgoing access not allowed', a ISUP REL is sent the Cause indicator is set to 'facility rejected'									
SIP parameter										
values										
ISUP parameter	IAM									
values	Optional forward call ind	icator								
	Closed user group ca									
	closed user group			cess allov	ved					
	Closed user group interl	ock co	de							
	REL:									
	Cause									
	facility rejected	1	1		F					
Comments	ISUP		SUT		SIP-I					
	IAM	→								
	REL	←								
	RLC	→								

Annex A (informative): Bibliography

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

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

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

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

Recommendations ITU-T 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".

Recommendations ITU-T 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".

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

Recommendation ITU-T Q.730: "ISDN user part supplementary 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		
14-10- 14	RTS/INT- 00113-3			F		1.3.1	1.4.1

History

Document history		
V1.1.1	June 2008	Publication
V1.2.1	November 2009	Publication
V1.3.1	June 2010	Publication
V1.3.2	October 2014	Publication