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Core Network and Interoperability Testing (INT); Interworking between the 3GPP Cs domain with BICC or ISUP as signalling protocol and external SIP-I networks; (3GPP Release 8);

Part 2: Test Suite Structure and Test Purposes (TSS&TP)

Reference

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Keywords

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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 2 of a multi-part deliverable covering the Interworking between the 3GPP Cs domain with BICC or ISUP as signalling protocol and external SIP-I networks, as identified below:

Part 1: "Protocol Implementation Conformance Statement (PICS)";

Part 2: "Test Suite Structure and Test Purposes (TSS&TP)".

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "may not", "need", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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1 Scope

The present document specifies the network Test Suite Structure and Test Purposes (TSS and TP) for Interworking between the 3GPP Cs domain with BICC or ISUP as signalling protocol and external SIP-I networks) described in the Recommendation ITU-T Q.1912.5 [1] and TS 129 164 [10].

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.

ne ronowing	referenced documents are necessary for the appreciation 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]	Void.
[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 (1998): "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]	ETSI TS 129 164 (V8.0.0): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the 3GPP Cs domain with BICC or ISUP as signalling protocol and external SIP-I networks (3GPP TS 29.164 version 8.0.0 Release 8)".
[11]	ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP

[3GPP TS 29.163 (Release 7), modified]".

Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks

[12] Void.

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.735.1: "Stage 3 description for community of interest supplementary services using Signalling System No. 7: 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".
[i.13]	Recommendation ITU-T T.38: "Procedures for real-time Group 3 facsimile communication over IP networks".
[i.14]	Recommendation ITU-T Q.1902.4: "Bearer independent call control protocol (Capability Set 2): Basic call procedures".
[i.15]	IETF RFC 4040: "RTP Payload Format for a 64 kbit/s Transparent Call".
[i.16]	Void.

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 a 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

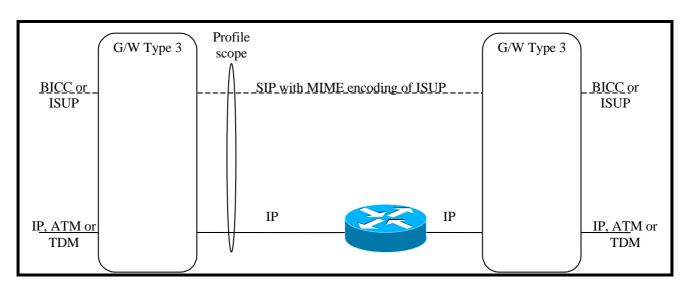


Figure 1: Profile scope for SIP with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateways

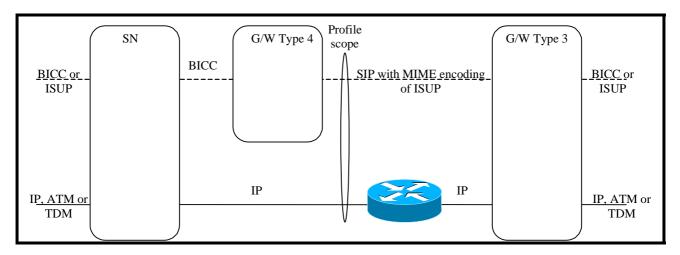


Figure 2: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 3 and 4 gateways

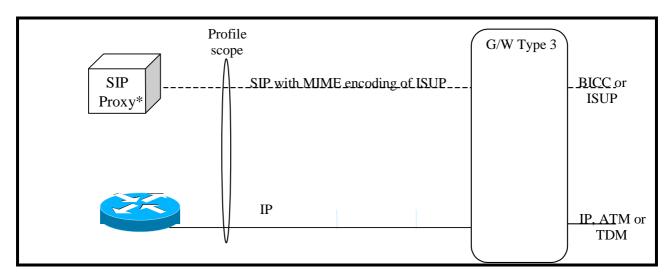


Figure 3: Profile scope for SIP with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateways

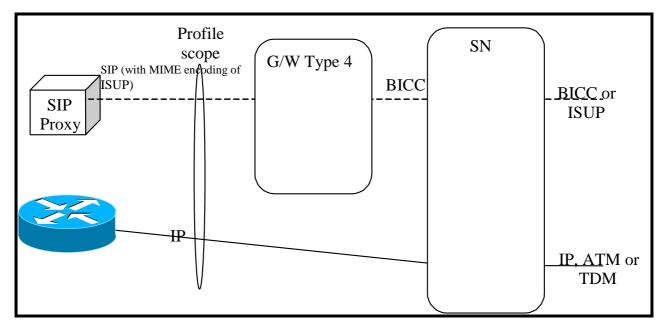


Figure 4: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 4 gateway

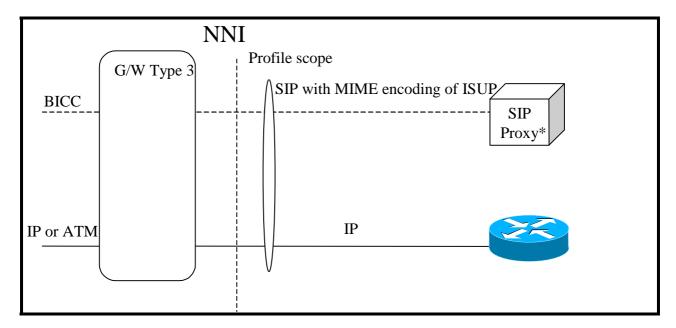


Figure 5: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateway

3.2 Abbreviations

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

3PTY ACK	Three-Party SIP "ACK" message
ACM	Address Complete Message
ANM	ANswer Message
APM	APplication Message
APRI	Address Presentation Restricted Indicator
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
BLA BLocking Acknowledgement message

BLO BLOcking message

BNC Backbone Network Connection

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 COT COnTinuity message **CPG** Call Progress Message Called Party Status **CPS CTNb** ConnecTed Number Closed User Group **CUG** Cause Value CVCW Call Waiting

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 Call HOLD

IAM Initial Address Message
IDR IDentification Request message

IE Information Element
I-IWU Incoming InterWorking Unit

I-MGCF Incoming Media Gateway Control Function

IRS Identification ResponSe message
ISDN Integrated Services Digital Network

ISDN-UP ISDN User Part ISUP ISDN User Part

ITU International Telecommunication Union

IUT Implementation Under Test

IWUInterWorking UnitLOPLOop Prevention messageMCGFMedia Gateway Control functionMCIDMalicious Call IDentificationMGCFMedia Gateway Control Function

MHS Message Handling System

MIME Multi-purpose Internet Mail Extension

MOT Means Of Testing

NCI Nature of Connection Indicators NDC National Destination Code

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

O-MGCF Outgoing Media Gateway Control Function

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

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

PRACK SIP "PRACK" message

PT Pay load Type

PTC Parallel Test Component
REL RELease message
RES RESUME

RFC IETF Request For Comment RLC ReLease Complete message

RSC ReSet Circuit RTP Real Time Protocol

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

SIP-I Session Initiation Protocol with encapsulated ISUP

SN Subscriber Number SS Supplementary Services

SUB SUBaddressing
SUS SUSPEND
SUT System Under Test

TMR Transmission Medium Requirement

TP Test Purpose
TSS Test Suite Structure

UBA UnBlocking Acknowledgment message

UBL UnBLocking message
UPA User Part Available message
UPT User Part Test message
URI Uniform Resource Identifier
USI User Service Information parameter

USR User-to User message UUS User to User Signalling

VA VAriable

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
	Sending of the Address Complete Message (ACM)	TP303xxx
	Sending of the Call Progress Message (CPG)	TP304xxx
	Sending of the ANswer Message (ANM)	TP305xxx
	Sending of the CONnect message (CON)	TP306xxx
	Receipt of the RELease message (REL)	TP307xxx
	Sending of the RELease Message (REL)	TP308xxx
	Receipt of ReSet Circuit message (RSC), circuit Group ReSet 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

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 ISDN-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 call

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 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	receipt o	of the first	INVITE	with su	ufficient digits, with a SDP		
	offer:							
	 the SUT shall delete μ- 	law (PCN	/IU), if pre	sent, fro	m the	media description that it will		
	send back in the SDP a	answer;						
	 the SUT shall immediate 	tely send	out the IA	λM.				
SIP parameter	SIP INVITE: Audio RTP/AV	P 0 8						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM USI: A-law or absent							
values								
Comments	SIP-I		SU	Т		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	←			←	ACM		
200 OK INVITE(ANM) ←					←	ANM		
	ACK							
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101002	SUP reference:								
11 101002	SIP reference: RFC 3	J_U. [-]	l	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 receipt of the first INVITE with sufficient digits, with a SDP								
	offer 100rel extensions and p								
			1U), if pre	sent, from	the r	media description that it will			
	send back in the SDP an	,							
						with the coding of the Nature			
	of Connection Indicators		ter: "CO	T to be ex	pect	ed".			
SIP parameter	SIP INVITE: Audio RTP/AVP	8 0							
values	200 OK: Audio RTP/AVP 8								
ISUP parameter				ted, USI: A	4-law	or absent			
values		ontinui				lious			
Comments	SIP-I		SL			ISUP			
	INVITE(IAM)	→			→	IAM			
	183 Session Progress	(
	PRACK	→							
	200 OK PRACK	+				007			
	UPDATE	→			→	СОТ			
	200 OK UPDATE	+							
	400 B: : (40M)	L .	Preconditi			4014			
	180 Ringing(ACM)	+			<u>+</u>	ACM			
	200 OK INVITE(ANM)	+			(ANM			
	ACK	→	0						
	DVE(DEL)		Conver		_	DEL			
	BYE(REL)	→			<u>→</u>	REL			
	200 OK BYE(RLC)	←			-	RLC			

TP101003	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.1.2 (i,2ai)					
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection	PICS 4/4 AND PICS 4/5								
criteria									
ISUP selection	PICS 1/4 AND NOT PICS 1/6 AND 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 p								
), if pre	sent, from	the r	media description that it will			
	send back in the SDP an	,							
						vith the coding of the Nature			
oin 1	of Connection Indicators	•	er: "CO	I to be exp	ect	ed".			
SIP parameter	SIP INVITE: Audio RTP/AVP	0.8							
values	200 OK: Audio RTP/AVP 8	20T (- 1-		4					
ISUP parameter	1		•	ted, USI: A	A-iaw	or absent			
values		continuity		- 1		IOLID			
Comments	SIP-I		SL			ISUP			
	INVITE(IAM)	→			<u>→</u>	IAM			
	183 Session Progress	←							
	PRACK								
	200 OK PRACK	←			→	COT			
	UPDATE	7			7	COT			
	200 OK UPDATE		1545						
	400 Dia via v(4 OM)		econaiti	ons met	_	0.004			
	180 Ringing(ACM)	-			<u>+</u>	ACM			
	200 OK INVITE(ANM)	←			←	ANM			
	ACK		2						
	DVE(DEL)		Conver		_	DEL			
	BYE(REL)	→)	REL			
	200 OK BYE(RLC)	←			(RLC			

TP101004	SIP reference: RFC 3261 [4]			0.10		SUP reference: [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	1100 1/1/1100 1/0							
ISUP selection	PICS 1/5 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 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	0 8						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM Continuity Indicator: con							
values	perf COT Continuity Indicator: cor					SI: A-law or absent		
Comments	SIP-I		SU	T		ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	COT		
	200 OK UPDATE	←						
		Preconditions met						
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			←	ANM		
	ACK	→						
		(Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			-	RLC		

TP101005	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.1.2 (i,2aii)			
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 criteria	PICS 1/5 AND NOT PICS 1/6	AND P	ICS 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 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/AVP						
values	200 OK: Audio RTP/AVP 8						
ISUP parameter	IAM Continuity Indicator: con	tinuity o	heck re	quired or	this	circuit or continuity check	
values	perf COT Continuity Indicator: con					SI: A-law or absent	
Comments	SIP-I		SL	JΤ		ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→			→	COT	
	200 OK UPDATE	+					
		Р	reconditi	ons met			
	180 Ringing(ACM)	+			←	ACM	
	200 OK INVITE(ANM)	+			+	ANM	
	ACK	→					
			Conver	sation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	←			+	RLC	

TP101006	SIP reference: RFC	3261 [4]			SUP reference:		
				G	Q.1912.	5 [1], clause 6.1.2 (i,2b)		
TSS reference	SIP-ISUP/Basic call/Sending	of the I	nitial Addı	ress Me	essage	(IAM)		
SIP selection	PICS 4/4 AND PICS 4/5	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 receipt of the first INVITE with sufficient digits, with a SDP							
	offer 100rel extensions and	precond	itions exte	ensions	in the S	SIP Supported header:		
	 the SUT shall delete μ-la 	aw (PCN	/IU), if pre	sent, fro	om the	media description that it will		
	send back in the SDP ar	nswer;						
	 the IAM shall be deferre 	d until a	II precond	litions h	ave bee	en met.		
SIP parameter	SIP INVITE: Audio RTP/AVP	0.8						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM USI: A-law or absent							
values								
Comments	SIP-I		SU	IT		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	IAM		
	200 OK UPDATE	+						
			Preconditi	ons me	t			
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+		_	+	RLC		

TP101007	SIP reference: RFC 3261 [4]			Q.	_	ISUP reference: 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					,		
criteria								
ISUP selection	NOT PICS 1/6 AND PICS 4/	1						
criteria								
Test purpose	Ensure that if the SUT upon							
	offer 100rel extensions and	precondit	ions exte	ensions ir	n the S	SIP Require header:		
	 the SUT shall delete μ-la 	aw (PCM	U), if pre	sent, fror	n the	media description that it will		
	send back in the SDP ar	nswer;						
	 the IAM shall be deferred 	d until all	precond	litions ha	ve be	en met.		
SIP parameter	SIP INVITE: Audio RTP/AVP	0 8						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM USI: A-law or absent							
values								
Comments	SIP-I		SU	IT		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	←						
	UPDATE	→			→	IAM		
	200 OK UPDATE	←						
		Р	reconditi	ons met				
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101008	SIP reference: RFC 3	3261 [4	.]			SUP reference:		
				Q	.1912.	5 [1], clause 6.1.2 (i,1)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection criteria	NOT PICS 4/4 AND NOT 4/5							
ISUP selection criteria	PICS 1/6							
Test purpose	Ensure that if the SUT upon roffer:	eceipt	of the first	INVITE	with su	ufficient digits, with a SDP		
	 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 SUT shall immediately send out the IAM. 							
SIP parameter	SIP INVITE: Audio RTP/AVP	,	out the h					
values	200 OK: Audio RTP/AVP 0							
ISUP parameter	IAM USI: μ-law							
values	·							
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:		
T00 (015 101 15/5 : 11/0 1:				5 [1], clause 6.1.2 (i,2ai)		
TSS reference	SIP-ISUP/Basic call/Sending	of the In	itial Addi	ress Message	(IAM)		
SIP selection	PICS 4/4 AND PICS 4/5						
criteria							
ISUP selection	PICS 1/4 AND PICS 1/6 ANI	D 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						
					A) and μ-law (PCMU) were		
	present in the offer of th	e media d	description	on, that it will s	end it back in the SDP		
	answer;						
					with the coding of the Nature		
	of Connection Indicators		er: " CO 1	Γ to be expec	ted".		
SIP parameter		SIP INVITE: Audio RTP/AVP 0 8					
values	200 OK: Audio RTP/AVP 0						
ISUP parameter			Indicato	rs parameter:	"COT to be expected" COT;		
values	Continuity Indicator: continu	ıity					
Comments	SIP-I		SU		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	←					
	UPDATE	→		→	COT		
	200 OK UPDATE	←					
		Pi	reconditi	ons met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Convers	sation			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP101010	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.1.2 (i,2ai)				
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	PICS 1/4 AND 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	n Indicato	rs paramet	er: "	COT to be expected" COT;		
values	Continuity Indicator: continui					• ,		
Comments	SIP-I		SU	T		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	→						
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			(RLC		

TP101011	SIP reference: RFC	3261 [4]			ISUP reference:			
					5 [1], clause 6.1.2 (i,2aii)			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	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	00						
ISUP parameter values	IAM: USI: μ-law; Continuity of continuity check p COT Continuity Indicator: co	erformed on	previous cir	cuit	ck required on this circuit"			
Comments	SIP-I		SUT	1	ISUP			
	INVITE(IAM)	→		→	IAM			
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	СОТ			
	200 OK UPDATE	+						
		Prec	onditions me	et				
	180 Ringing(ACM)	+		←	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
		Co	nversation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+	· · · · · · · · · · · · · · · · · · ·	+	RLC			

TP101012	SIP reference: RFC 32	61 [4]		ISUP reference: 5 [1], clause 6.1.2 (i,2aii)				
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection criteria	PICS 4/4 AND PICS 4/5							
ISUP selection criteria	PICS 1/5 AND 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 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 0							
values	200 OK: Audio RTP/AVP 0							
ISUP parameter values	IAM: USI: μ-law; Continuity che continuity check perfor COT Continuity Indicator: cont	med on previo	us circuit	k required on this circuit"				
Comments	SIP-I	SL		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				

TP101013	SIP reference: RFC 3261 [4]			ISUP reference:				
T00 (Q.1912.5 [1], clause 6.1.2 (i,2b) SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
TSS reference		of the I	nitiai Addi	ress Messa	age ((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 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/AVF							
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	+						
		I	Preconditi	ons met				
	180 Ringing(ACM)	+			←	ACM		
	200 OK INVITE(ANM)	+			←	ANM		
	ACK	→						
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			←	RLC		

TP101014	SIP reference: RFC	3261 [4]		0.44	_	SUP reference:		
		4.1. 1				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		SU	Т		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→			→	IAM		
	200 OK UPDATE	+						
		F	reconditi	ons met				
	180 Ringing(ACM)	+			-	ACM		
	200 OK INVITE(ANM)	+			(ANM		
	ACK	→						
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			(RLC		

TP101015	SIP reference: RFC	3261 [4]	Q.19		SUP reference: 1], clauses 6.1.3.2, 6.1.3.3, 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 PI	CS 4/4 and	NOT PICS 4/5	5				
Test purpose SIP parameter	 Ensure that the SUT on receipt of an INVITE message sends an IAM message, where: the Calling party's category is generated from the Calling Party's Category present in the encapsulated IAM; 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 encapsulated IAM. 							
values								
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	←		+	ACM			
	200 OK INVITE(ANM) ← ANM							
	ACK →							
		C	onversation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP101015A	SIP reference: RF	C 3261 [4]	ES 283 02	ISUP reference: ES 283 027 [11], clause 7.2.3.1.2.5 TS 129 164 [10], clause 6.2.4.1.3.2			
TSS reference	SIP-ISUP/Basic call/Sendi	ing of the Initial Add	dress message (IAM)			
SIP selection criteria	Based on table 1A						
ISUP selection criteria							
SIP Parameter values ISUP Parameter values	Mapping of SDP into the TMR Ensure that the SUT in the Idle state on receipt of an INVITE message containing the media description defined in table 1 with the "a =" "b =" and "m=" lines set to a_b_m_LINE_VALUE: and the media description does not match the TMR and USI value sends an IAM message, with the Transmission Medium Requirement (TMR) parameter set to TMR_VALUE derived from the media description. The Information transfer capability in the USI is set in parallel to the TMR value. INVITE; a_b_m_LINE_VALUE IAM: TMR: ISUP_TMR						
Comments	SIP		UT	ISUP			
- Commonto	INVITE (IAM)	→	→	IAM			
	180 Ringing (ACM)	+	+	ACM			
			ng tone	j			
	200 OK INVITE (ANM)	←	<u>←</u>	ANM			
	ACK	→					
		Conve	ersation	•			
	BYE (REL)	→	→	REL			
	200 OK BYE (RLC)	+	+	RLC			

Table 1A

	1			s for test purposes TP10	1015A	
			a_b_m	n_LINE_VALUE	-	
		m= line		b= line	a= line	TMR_VALUE
test purposes	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandwidth-value></bandwidth-value></modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>	TMR codes
VA_01	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	"3,1 KHz audio"
VA_02	audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	"3,1 KHz audio"
VA_03	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	"3,1 KHz audio"
VA_04	audio	RTP/AVP	Dynamic PT	AS: 64 kbit/s	rtpmap: <dynamic-pt> CLEARMODE/8000 (see note 2)</dynamic-pt>	"64 kbit/s unrestricted"
VA_05	image	udptl	t38	N/A or up to 64 kbit/s	Based on ITU-T T.38 [i.13]	"3,1 KHz audio"
VA_06	image	tcptl	t38	N/A or up to 64 kbit/s	Based on ITU-T T.38 [i.13]	"3,1 KHz audio"
VA_07	audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	"3,1 KHz audio"

NOTE 1: In this table the codec G.711 is used only as an example. Other codecs are possible.

NOTE 2: CLEARMODE is specified in RFC 4040 [i.15].

NOTE 3: If the b=line indicates a bandwidth greater than 64 kbit/s then the call may use compression techniques or reject the call with a 415 response indicating that only one media stream of 64 kbit/s is supported.

NOTE 4: <bandwidth value> for <modifier> of AS is in units of kbit/s.

P101016	SIP reference: RF0	C 3261 [4]		Į.	SUP reference:			
				Q	.1912	2.5 [1], clause 6.1.3.5			
TSS reference	SIP-ISUP/Basic call/Sendir	SIP-ISUP/Basic call/Sending of the Initial Address Message (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	Idle state	on receip	t of an IN	VITE	message with an			
	encapsulated IAM message								
	The TMR and USI shall be	taken from	m the enc	apsulated	ISUF).			
	 sends an IAM message from the encapsulated 		e Transm	ission Me	dium	Requirement (TMR) taken			
SIP parameter	SIP INVITE								
values									
ISUP parameter values	IAM; USI; ISDN_BC_ITR; 7	ΓMR							
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			

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		ISUP_TMR = 64 kbits/s unrestricted				
	ISDN_BC_ITR = 64 kbits/s unrestricted					
VA_04	No USI contained in the encapsulated IAM	ISUP_TMR = speech				
VA_05	No USI contained in the encapsulated IAM	ISUP_TMR = 3,1 kHz audio				
VA_06	No USI contained in the encapsulated IAM	ISUP_TMR = 64 kbits/s unrestricted				

TP101017	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.1.3.5				
TSS reference	SIP-ISUP/Basic call/Sendir	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	NOT PICS 4/4 and NOT PI							
criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message with an encapsulated IAM message the 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 values	IAM; Access transport pa	rameter HL	C: HLC_VAL	UE; USI				
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK →							
		C	Conversation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

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

TP101018	SIP reference: RFC 3261 [4]			-	SUP reference:				
	Q.1912.5 [1], clause 6.1.3.9								
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							
criteria									
ISUP selection criteria	PICS 4/3	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	IAM: Hop Counter paramete	er value							
values	·								
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
		Conv	ersation						
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP101019	SIP reference: RFC	3261 [4]		SUP 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	NOT PICS 1/7					
criteria						
Test purpose	 Ensure that the SUT on receipt of an INVITE message with a Called party number contained in the user info component of the Request-URI. Send an IAM Message with the called party number coded as follows: Nature of address indicator: Analyse the information contained in received URI with user=phone, and if it is in the format:					
	 Address Signals: NDC S 	SN.				
SIP parameter						
values						
ISUP parameter	IAM: Called party number					
values		1		1		
Comments	SIP-I		JT	ISUP		
	INVITE(IAM)	→	→	IAM		
	180 Ringing(ACM)	+	←	ACM		
	200 OK INVITE(ANM)	+	+	ANM		
	ACK	→				
		Conve	rsation			
	BYE(REL)	→	→	REL		
	200 OK BYE(RLC)	←	←	RLC		

TP101020	SIP reference: RFC 3	3261 [4]	ISUP reference:				
			Q.191	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	and NOT PICS	4/5				
criteria							
ISUP selection	PICS 1/7						
criteria							
Test purpose	Ensure that the SUT on receipt of an INVITE message with a Called party number contained in the user info component of the Request-URI. Send an IAM Message with the called party number coded as follows: Nature of address indicator: Analyse the information contained in received URI with user=phone, and if it is in the format: +CC NDC SN where CC is not the country code of the network in which the next hop terminates, then set Nature of Address indicator to "International number", remove "+" and use the remaining digits to fill the Address signals. Internal Network Number Indicator: routing to internal network number not allowed. Numbering plan Indicator 001 ISDN (Telephony) numbering plan. Address Signals CC NDC SN.						
SIP parameter							
values							
ISUP parameter	IAM: Called party number						
values							
Comments	SIP-I	Sl	JT	ISUP			
	INVITE(IAM)	→	→	IAM			
	180 Ringing(ACM) ← ←						
	ACK	→					
		Conver	sation				
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101021	SIP reference: RFC 3261 [4]			ISUP reference:				
	Q.1912.5 [1], clause 6.1.3.5.1							
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 PIC	S 4/5 A	ND PICS	1/9				
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT on recei							
	a-Law, then independent fro				-			
	 the G.711 a-law codec s 	• the G.711 a-law codec shall be returned in the SDP answer as preferred codec.						
SIP parameter	Offer: m=audio 4711 RTF	P/AVP (8 (
values	Answer: m=audio 4712 RTF	P/AVP 8	3 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:		
			Q.1912	.5 [1], clause 6.1.3.5.1		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	PICS 4/4 AND PICS 4/5 AND					
criteria						
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND PICS 4/1				
criteria						
Test purpose	Ensure that the SUT on recei	pt of an INVITE	message with a	SDP offer for μ-Law and		
	a-Law 100rel extensions and	preconditions e	xtensions in the	SIP Supported header, then		
	independent from the receive	ved order of pr	eference:			
	 the IAM shall be sent out 	immediately on	the BICC side	with the coding of the Nature		
	of Connection Indicators					
	 the G.711 a-law codec sł 	nall be returned	in the SDP ans	wer as preferred codec.		
SIP parameter	Offer: m=audio 4711 RTF	P/AVP 0 8				
values	Answer: m=audio 4712 RTF	P/AVP 8 0				
ISUP parameter		OT to be expe	cted, USI: A-lav	v or absent		
values		ontinuity				
Comments	SIP-I	SI	UT	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	→				
		Conve	rsation			
	BYE(REL)	→	→	REL		
	200 OK BYE(RLC)	+	+	RLC		

TP101023	SIP reference: RFC 3261 [4]				-	SUP reference:
						.5 [1], clause 6.1.3.5.1
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 PI	CS 4/1			
criteria						
Test purpose	Ensure that the SUT on recei					
	a-Law 100rel extensions and					SIP Require header, then
	independent from the receive					
						with the coding of the Nature
	of Connection Indicators					
	 the G.711 a-law codec sl 	hall be re	turned i	n the SDI	P ansv	wer as preferred codec.
SIP parameter	Offer: m=audio 4711 RTF		-			
values	Answer: m=audio 4712 RTF					
ISUP parameter	_			ted, USI	: A-lav	v or absent
values		ontinuit	•			
Comments	SIP-I		SU	<u>IT</u>		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	→				
			Convers	sation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

TP101024	SIP reference: RFC 3	3261 [4]		SUP reference:
T00 ((d. 1.:: 1.A.1		2.5 [1], clause 6.1.3.5.1
TSS reference	SIP-ISUP/Basic call/Sending		dress Message	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9		
criteria	DIGG 4/5 AND NOT DIGG 4/9	AND DIGG 4/4		
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PICS 4/1		
criteria	E 11 11 OUT	· (IND/ITE	*41	000 " ' 1
Test purpose	Ensure that the SUT on recei			
				SIP Supported header, then
	independent from the receiv			with the Oscation it calculates
	indicator "continuity che			with the Continuity check
	performed on previous		Tims circuit of	continuity check
	 the G.711 a-law codec sł 		in the SDP and	wor as professed codes
SIP parameter	Offer: m=audio 4711 RTF		III lile SDF alls	wer as preferred codec.
values	Answer: m=audio 4711 RTF			
ISUP parameter			k required on t	his circuit or continuity
values				circuit, USI: A-law or absent
Valuoo		ontinuity che		on date, don A law or absort
Comments	SIP-I		UT	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	→		
		Conve	rsation	
	BYE(REL)	→	→	REL
	200 OK BYE(RLC)	+	+	RLC

TP101025	SIP reference: RFC 3	3261 [4]		ı	SUP reference:			
				Q.1912	.5 [1], clause 6.1.3.5.1			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9						
criteria								
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PICS 4	/1					
criteria								
Test purpose		Ensure that the SUT on receipt of an INVITE message with a SDP offer for μ-Law and						
	a-Law 100rel extensions and				SIP Require header, then			
	independent from the recei							
					with the Continuity check			
	indicator "continuity che		on this cir	cuit" o	"continuity check			
	performed on previous		01		, , ,			
OID	the G.711 a-law codec sl		ed in the Si	DP ans	wer as preferred codec.			
SIP parameter values	Offer: m=audio 4711 RTF	,						
	Answer: m=audio 4712 RTF		ak ramuir	-d -n t	hio aircuit ar continuity			
ISUP parameter values					his circuit or continuity circuit, USI: A-law or absent			
values		ontinuity ch			circuit, OSI. A-law or absent			
Comments	SIP-I		SUT	33141	ISUP			
Commonto	INVITE(IAM)	→	001	→	IAM			
	183 Session Progress	-			17 (17)			
	PRACK	→						
	200 OK PRACK	-						
	UPDATE	→		→	COT			
	200 OK UPDATE	+						
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
		Conv	ersation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP101026	SIP reference: RFC	3261 [4]	1		ISUP reference:			
		Q.1912.5 [1], clause 6.1.3.5.						
TSS reference	SIP-ISUP/Basic call/Sending	of the I	nitial Addi	ress Message	e (IAM)			
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS ²	1/9					
criteria								
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND N	IOT PICS	4/1				
criteria								
Test purpose	Ensure that the SUT on recei							
					e SIP Supported header, then			
	independent from the recei		-					
	 the shall be deferred unt 							
	 the G.711 a-law codec s 			n the SDP an	swer as preferred codec.			
SIP parameter		Offer: m=audio 4711 RTP/AVP 0 8						
values	Answer: m=audio 4712 RTI	P/AVP 8	3 0					
ISUP parameter								
values								
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	→						
			Convers	sation				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP101027	SIP reference: RFC 3261 [4]				ISUP reference:		
				Q.191	2.5 [1], clause 6.1.3.5.1		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 AN	D PICS 1/9					
criteria							
ISUP selection	PICS 1/5 AND NOT PICS 1/	6 and no	T PICS	4/1			
criteria							
Test purpose	Ensure that the SUT on rece						
					e SIP Require header, then		
	independent from the rece		-				
	 the shall be deferred un 						
	the G.711 a-law codec s	shall be retu	urned i	n the SDP an	swer as preferred codec.		
SIP parameter	Offer: m=audio 4711 R7	Offer: m=audio 4711 RTP/AVP 0 8					
values	Answer: m=audio 4712 R1	ΓΡ/AVP 8 0					
ISUP parameter							
values							
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	→					
			Conver	sation			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+	·	+	RLC		

TP101028	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.1.3.5.1					
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 PIC	S 4/5 AN	ND PICS	1/9		•			
criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for a-Law and no µ-Law, then independent the normal offer answer procedures apply: • the G.711 a-law codec shall be returned in the SDP answer.								
SIP parameter	Offer: m=audio 4711 RTF	P/AVP 8							
values	Answer: m=audio 4711 RTF	P/AVP 8							
ISUP parameter 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			

TP101029	SIP reference: RFC 3	3261 [4]			-	SUP reference:	
						.5 [1], clause 6.1.3.5.1	
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	ICS 4/1				
criteria							
Test purpose	Ensure that the SUT on recei						
	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 sł 			n the SDP	ansv	ver.	
SIP parameter	Offer: m=audio 4711 RTF	-					
values	Answer: m=audio 4711 RTF						
ISUP parameter				ted, USI: A	\-law	v or absent	
values		ontinuity					
Comments	SIP-I		SL			ISUP	
	INVITE(IAM)	→			<u>→</u>	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	

TP101030	SIP reference: RFC 3261 [4]		ISUP reference:				
				Q	.1912	.5 [1], clause 6.1.3.5.1	
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	ICS 4/1				
criteria							
Test purpose	Ensure that the SUT on recei						
	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 sł 			n the SDI	ans	wer.	
SIP parameter	Offer: m=audio 4711 RTF						
values	Answer: m=audio 4711 RTF						
ISUP parameter	,		•	ted, USI	: A-lav	v or absent	
values	,	ontinui		_		l	
Comments	SIP-I		SU	T		ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress	←					
	PRACK	→					
	200 OK PRACK	←					
	UPDATE	→			→	COT	
	200 OK UPDATE	+					
	(100 0)		reconditi	ons met			
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	+			+	ANM	
	ACK	→					
			Convers	sation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	←			←	RLC	

TP101031	SIP reference: RFC	3261 [4]		0		SUP reference: .5 [1], clause 6.1.3.5.1		
TSS reference	SID ISLID/Basic call/Sanding	of the Ir	vitial 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	PICS 4/4 AIND PICS 4/5 AINI	D FICS I	19					
ISUP selection criteria	PICS 1/5 AND NOT PICS 1/6 AND PICS 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 RT	P/AVP 8						
values	Answer: m=audio 4711 RT	P/AVP 8						
ISUP parameter	IAM Continuity Indicator:	continui	ty check	required	l on t	his circuit or continuity		
values				d on prev		circuit, USI: A-law or absent		
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	→						
			Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101032	SIP reference: RFC	3261 [4]				ISUP reference:		
				Q	.1912	2.5 [1], clause 6.1.3.5.1		
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	1/9					
criteria								
ISUP selection	PICS 1/5 AND NOT PICS 1/6	6 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					SIP Require header, then		
	independent the normal of							
						with the Continuity check		
	indicator "continuity che			tnis circi	uit" o	r continuity cneck		
	 performed on previous the G.711 a-law codec s 			a tha CDI	.	wor		
SIP parameter	the G.711 a-law codec sOffer: m=audio 4711 RT			n the SDI	ans	wer.		
values	Answer: m=audio 4711 RT							
ISUP parameter				require	d on t	this circuit or continuity		
values						circuit, USI: A-law or absent		
Value			ity check			on can, com a law or ascone		
Comments	SIP-I		SU			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	→						
		<u> </u>	Convers	sation				
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			←	RLC		

TP101033	SIP reference: RFC	3261 [4]			ı	SUP reference:
						.5 [1], clause 6.1.3.5.1
TSS reference	SIP-ISUP/Basic call/Sending	g of the Ir	nitial Add	ress Messa	age ((IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AN	ID PICS 1	/9			
criteria						
ISUP selection	NOT PICS 1/6 AND NOT PI	ICS 4/1				
criteria						
Test purpose						SDP offer for a-Law and no
						SIP Supported header, then
	independent the normal of		•			
	the IAM shall be deferred					
	the G.711 a-law codec			n the SDP	ans	wer.
SIP parameter	Offer: m=audio 4711 R					
values	Answer: m=audio 4711 R	TP/AVP 8	8			
ISUP parameter						
values	0.0	1 1				lioi in
Comments	SIP-I		SL)		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			
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	←			←	RLC

TP101034	SIP reference: RFC	3261 [4	.]		ISUP reference:			
					2.5 [1], clause 6.1.3.5.1			
TSS reference		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 AND	D 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			
	μ-Law 100rel extensions and							
	independent the normal of							
	the IAM shall be deferre							
	the G.711 a-law codec s			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			liaira			
Comments	SIP-I		SL	JT	ISUP			
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		→	IAM			
	200 OK UPDATE	+						
	180 Ringing(ACM)	+		←	, .e			
	200 OK INVITE(ANM)	+		-	ANM			
	ACK	→						
			Conver					
	BYE(REL)	→		→				
	200 OK BYE(RLC)	+		+	RLC			

TP101035	SIP reference: RFC 3	3261 [4]	=	SUP reference:				
	Q.1912.5 [1], clause 6.1.3.5.1							
TSS reference	SIP-ISUP/Basic call/Sending	of the Initial Add	ress Message (IAM)				
SIP selection	NOT PICS 4/4 AND NOT PIC	S 4/5 AND PICS	S 1/9					
criteria								
ISUP selection criteria	PICS 1/7	PICS 1/7						
Test purpose	Ensure that the SUT on receip	pt of an INVITE i	message with a	SDP offer m line without				
	a-law codec:							
	• the u-law codec shall be	rejected.						
SIP parameter	Offer: m=audio 4711 RTF	P/AVP 0						
values	m=audio 4712 RTF	P/AVP 8						
	Answer: m=audio 0 RTP/AV	/P 0						
ISUP parameter								
values								
Comments	SIP-I	SU	JT	ISUP				
	INVITE(IAM)	→	→	IAM				
	180 Ringing(ACM)	+	+	ACM				
	200 OK INVITE(ANM)	+	+	ANM				
	ACK	ACK →						
		Conver	sation					
	BYE(REL)	→	→	REL				
	200 OK BYE(RLC)	+	+	RLC				

TP101036	SIP reference: RFC 3	3261 [4]		SUP reference:			
			Q.1912	.5 [1], clause 6.1.3.5.1			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 AND			,			
criteria							
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND PICS 4/1					
criteria							
Test purpose	Ensure that the SUT on recei						
				s in the SIP Supported header:			
				with the coding of the Nature			
	of Connection Indicators		T to be expect	ed";			
	 the u-law codec shall b 						
SIP parameter	Offer: m=audio 4711 RTF						
values	m=audio 4712 RTF						
	Answer: m=audio 0 RTP/A\						
ISUP parameter		COT to be expe	cted, USI: A-la\	v or absent			
values	·	ontinuity		I			
Comments	SIP-I	Sl		ISUP			
	INVITE(IAM)	→	→	IAM			
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→	→	COT			
	200 OK UPDATE	←					
		Precondit					
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	→					
		Convei					
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	-	←	RLC			

TP101037	SIP reference: RFC 3		ISUP reference:					
	Q.1912.5 [1], clause 6.1.3.5.1							
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 recei							
	a-law codec 100rel extension							
	 the IAM shall be sent out 				ding of the Nature			
	of Connection Indicators		OT to be exp	ected";				
	 the u-law codec shall b 							
SIP parameter	Offer: m=audio 4711 RTF							
values	m=audio 4712 RTF							
	Answer: m=audio 0 RTP/A\	_						
ISUP parameter		COT to be exp	ected, USI: A	-law or absen	t			
values	<u> </u>	ontinuity		1				
Comments	SIP-I		SUT	ISUP				
	INVITE(IAM)	→		→ IAM				
	183 Session Progress	←						
	PRACK	→						
	200 OK PRACK	←						
	UPDATE	→	•	→ COT				
	200 OK UPDATE	←						
			ditions met					
	180 Ringing(ACM)	←		← ACM				
	200 OK INVITE(ANM)	←	•	← ANM				
	ACK	→						
			ersation					
	BYE(REL)	→		→ REL				
	200 OK BYE(RLC)	←	•	← RLC				

TP101038	SIP reference: RFC	3261 [4]		0.	-	SUP reference: .5 [1], clause 6.1.3.5.1	
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 AND			CSS IVICSS	aye ((IAIVI)	
criteria	FICS 4/4 AND FICS 4/5 AND	FICS	19				
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 extensions and preconditions extensions in the SIP Supported hea the IAM shall be sent out immediately on the ISUP side with the Continuity check						
	 the IAM shall be sent our indicator "continuity che performed on previous 	eck requ	uired on				
	the u-law codec shall be						
SIP parameter	Offer: m=audio 4711 RTI						
values	m=audio 4712 RTI	P/AVP 8					
	Answer: m=audio 0 RTP/A						
ISUP parameter						his circuit or continuity	
values						circuit, USI: A-law or absent	
	•	continui		success	ful		
Comments	SIP-I		SU	IT		ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	←					
	UPDATE	→			→	COT	
	200 OK UPDATE	+					
			reconditi	ons met			
	180 Ringing(ACM)	+			-	ACM	
	200 OK INVITE(ANM)	+			-	ANM	
	ACK	→					
		ļ	Convers	sation			
	BYE(REL)	→			<u>→</u>	REL	
	200 OK BYE(RLC)	←			-	RLC	

TP101039	SIP reference: RFC	SUP reference:							
				Q.1	1912	2.5 [1], clause 6.1.3.5.1			
TSS reference		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/	9						
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PI	CS 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 circu	it" OI	r "continuity check			
	performed on previous								
CID managed an	the u-law codec shall be codec shall be codec.		ea.						
SIP parameter values	Offer: m=audio 4711 RTI m=audio 4712 RTI								
values	Answer: m=audio 0 RTP/A	-							
ISUP parameter			v check	required	on t	his circuit or continuity			
values						circuit, USI: A-law or absent			
, and o				successi		on care, con 7 have or absorn			
Comments	SIP-I		SU			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	→							
			Convers	sation					
	BYE(REL)	→			<u>→</u>	REL			
	200 OK BYE(RLC)	+			←	RLC			

TP101040	SIP reference: RFC 3	3261 [4]			ISUP reference:			
	Q.1912.5 [1], clause 6.1.3.5.1							
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	/9					
criteria								
ISUP selection	NOT PICS 1/6 AND NOT PIC	S 4/1						
criteria								
Test purpose	Ensure that the SUT on recei							
					ons in the SIP Supported header:			
	the IAM shall be deferred			litions have b	peen met;			
	the u-law codec shall b							
SIP parameter	Offer: m=audio 4711 RTF							
values	m=audio 4712 RTF	-	}					
	Answer: m=audio 0 RTP/A	/P 0						
ISUP parameter								
values					[
Comments	SIP-I		SU	IT	ISUP			
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+		_				
	UPDATE	→		-	• IAM			
	200 OK UPDATE	←						
			reconditi					
	180 Ringing(ACM)	+		•	,			
	200 OK INVITE(ANM)	+		+	- ANM			
	ACK	→						
			Conver					
	BYE(REL)	→		-				
	200 OK BYE(RLC)	←		•	RLC			

TP101041	SIP reference: RFC 3261 [4]			-	SUP reference:		
						.5 [1], clause 6.1.3.5.1	
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 ANI	D PICS 1	/9				
criteria							
ISUP selection	NOT PICS 1/6 AND NOT PI	CS 4/1					
criteria							
Test purpose	Ensure that the SUT on rece						
	a-law codec 100rel extension						
	 the IAM shall be deferred 	d until al	l precond	litions hav	ve bee	en met;	
	 the u-law codec shall I 	be reject	ed.				
SIP parameter	Offer: m=audio 4711 RT	P/AVP 0					
values	m=audio 4712 RT	P/AVP 8					
	Answer: m=audio 0 RTP/A	VP 0					
ISUP parameter							
values							
Comments	SIP-I		SU	Т		ISUP	
	INVITE(IAM)	→					
	183 Session Progress	←					
	PRACK	→					
	200 OK PRACK	←					
	UPDATE	→			→	IAM	
	200 OK UPDATE	+					
		F	reconditi	ons met			
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	+			+	ANM	
	ACK	→					
			Convers	sation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+			+	RLC	

TP101042	SIP reference: RFC 3261	[4]	0	ISUP reference:				
		Q.1912.5 [1], clause 6.1.3.5.1						
TSS reference	SIP-ISUP/Basic call/Sending of the	Initial A	<u>ddress Mess</u>	sage (IAM)				
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5 AND PICS 1/9 AND PICS 4/19							
criteria								
ISUP selection	NOT PICS 1/6							
criteria								
Test purpose	Ensure that the SUT on receipt of a	an INVIT	E message v	with a SDP offer with more than				
	one media streams and based or	n operat	or policy the	en:				
	 the call is refused with a 415 	Unsup	ported 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	1 [4] ISUP reference:							
		Q.1912.5 [1], clause 6.1.3.5.1							
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection	PICS 4/4 AND PICS 4/5 AND PIC	PICS 4/4 AND PICS 4/5 AND PICS 1/9 AND PICS 4/19							
criteria									
ISUP selection	NOT PICS 1/6	NOT PICS 1/6							
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams 100rel extensions and preconditions extensions in the SIP Supported header and based on operator policy then: • the call is refused with a 415 Unsupported media type response.								
SIP parameter	Offer: m=audio 4711 RTP/AVP 8								
values	m=audio 4712 RTP/AVP 8								
ISUP parameter values									
Comments	SIP-I		SUT	ISUP					
	INVITE(IAM)	→							
	415 Unsupported media type	+							
	ACK)							

TP101044	SIP reference: RFC 3261 [SIP reference: RFC 3261 [4] ISUP reference:							
		_	Q	.1912.5 [1], clause 6.1.3.5.1					
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 PICS 4/19								
criteria									
ISUP selection	NOT PICS 1/6								
criteria									
Test purpose	Ensure that the SUT on receipt of a								
	one media streams 100rel extens			ns extensions in the SIP Require					
	header and based on operator po	-							
	 the call is refused with a 415 	Unsup	ported med	ia 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 3261 [4] ISUP reference:								
	Q.1912.5 [1], clause 6.1.3.5.1								
TSS reference		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	NOT PICS 4/4 AND NOT PIC	S 4/5 AND PICS	1/9 AND NOT	PICS 4/19					
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than								
	one media streams and bas								
	• if the SDP offer contains								
			dio streams sh	all be considered; the other					
	streams shall be rejected								
	• if the SDP offer contains			ms, the IWU shall only					
	consider one, and reject		S						
SIP parameter	Offer: m=audio 4711 RTF								
values	m=audio 4712 RTF								
	m=video 4713 RTF	P/AVP 31							
	Answer: m=audio 4711 RTF								
	m=audio 0 RTP/A\								
	m=video 0 RTP/AV	/P 31							
ISUP parameter									
values				lieur					
Comments	SIP-I	SU		ISUP					
	INVITE(IAM)	→	→	IAM					
	180 Ringing(ACM)	+	-	ACM					
	200 OK INVITE(ANM)	+	-	ANM					
	ACK	→							
		Convers	sation						
	BYE(REL)	→	→	REL					
	200 OK BYE(RLC)	←	←	RLC					

TP101046	SIP reference: RFC 3	3261 [4]			ISUP referer			
					12.5 [1], claus	e 6.1.3.5.1		
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 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 operator policy then: • the IAM shall be sent out immediately on the BICC side with the coding of the Nature							
	of Connection Indicators	parame	ter: "COT t	o be expe	ected";	-		
	 if the SDP offer contains non-audio type media str streams shall be rejected if the SDP offer contains 	ream, or l; several	nly the audi audio type	o streams	shall be consid	lered; the other		
	consider one, and reject							
SIP parameter	Offer: m=audio 4711 RTF							
values	m=audio 4712 RTF m=video 4713 RTF							
	Answer: m=audio 4711 RTF m=audio 0 RTP/A\ m=video 0 RTP/A\	/P 8						
ISUP parameter	IAM Continuity Indicator: C	OT to I	oe expecte	d, USI: A-	law or absent			
values		ontinui						
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		-3	IAM			
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK	+						
	UPDATE	→		-	COT			
	200 OK UPDATE	+						
		Pred	conditions r	net				
	180 Ringing(ACM)	+		•	- ACM			
	200 OK INVITE(ANM)	+		•				
	ACK	→						
			Conversa	tion				
	BYE(REL)	→		-	REL			
	200 OK BYE(RLC)	+		•	- RLC			

TP101047	SIP reference: RFC 3261 [4] ISUP reference:							
						2.5 [1], clause 6.1.3.5.1		
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 1/4 AND NOT PICS 1/6 AND PICS 4/1							
criteria								
Test purpose	 one media streams 100rel e header and based on operate the IAM shall be sent out of Connection Indicators if the SDP offer contains 	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 BICC side with the coding of the Nature of Connection Indicators parameter: "COT to be expected"; if the SDP offer contains one or more audio type media streams and one or more						
CID parameter	 streams shall be rejected if the SDP offer contains consider one, and reject 	l; several the othe	audio type er streams.	media :		ms, the IWU shall only		
SIP parameter values	Offer: m=audio 4711 RTF m=audio 4712 RTF							
	m=video 4713 RTF Answer: m=audio 4711 RTF m=audio 0 RTP/A\ m=video 0 RTP/A\	P/AVP 3 P/AVP 8 /P 8 /P 31	3					
ISUP parameter				ed, USI:	A-la	w or absent		
values		ontinui		. 1		liaiin		
Comments	SIP-I		SUT			ISUP		
	INVITE(IAM)	→			→	IAM		
	183 Session Progress	+						
	PRACK	→						
	200 OK PRACK UPDATE	→			→	COT		
		-				COI		
	200 OK UPDATE	_	conditions i	met				
	180 Ringing(ACM)	←	JOHUILIOHS I	IIGL	+	ACM		
	200 OK INVITE(ANM)	+			÷	ANM		
	ACK	→				7 4 444		
	,,,,,,		Conversa	ation				
	BYE(REL)	→	300100		→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101048	SIP reference: RFC 3	3261 [4]		ISUP reference:				
			Q.1912	2.5 [1], clause 6.1.3.5.1				
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 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 4713 RTP/AVP 31 							
ISUP parameter values		/P 8 /P 31 continuity chec check performe	ed on previous	this circuit or continuity circuit, USI: A-law or absent				
0		ontinuity chec		lioup				
Comments	SIP-I		UT	ISUP				
	INVITE(IAM)	→	→	IAM				
	183 Session Progress PRACK	→						
	200 OK PRACK	-						
	UPDATE	→	→	COT				
	200 OK UPDATE		7	COI				
	200 OK UPDATE	Precondition	no mot					
	180 Ringing(ACM)	+ recondition	± 11101	ACM				
	200 OK INVITE(ANM)	-	-	ANM				
	ACK	→		AINIVI				
	AON	=	rsation					
	BYE(REL)	→ Conve		REL				
	200 OK BYE(RLC)	-	-	RLC				
	1200 ON DIL(NLO)	•		INLO				

TP101049	SIP reference: RFC 3	3261 [4]		ISUP reference:				
			Q.19	12.5 [1], clause 6.1.3.5.1				
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 							
ISUP parameter values	c	/P 8 /P 31 continuity chec check perform	ed on previou	n this circuit or continuity is circuit, USI: A-law or absent				
		ontinuity che						
Comments	SIP-I		SUT	ISUP				
	INVITE(IAM)	→)	IAM				
	183 Session Progress PRACK	←						
	200 OK PRACK	+						
	UPDATE	→	-	COT				
	200 OK UPDATE	+	7	(0)				
	200 OK OPDATE	Preconditio	nc mot					
	180 Ringing(ACM)	+ recondition	(to line.	- ACM				
	200 OK INVITE(ANM)	+						
	ACK	→		/ M VIVI				
	/ COIX	=	ersation					
	BYE(REL)	→	3	REL				
	200 OK BYE(RLC)	-						
	1200 ON BIL(NLO)	_		INLO				

TP101050	SIP reference: RFC 3261 [4]					SUP reference:
						.5 [1], clause 6.1.3.5.1
TSS reference	SIP-ISUP/Basic call/Sending	of the li	nitial Addr	ess Mes	sage	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	1/9 AND N	IOT PIC	S 4/19	
criteria						
ISUP selection	NOT PICS 1/6 AND NOT PIC	S 4/1				
criteria			15 D (ITE		***	000 " 111 11
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 					
		eam, o				streams and one or more all be considered; the other
	 if the SDP offer contains 		Laudio typ	e media	etros	ms the IWI I shall only
	consider one, and reject				Silea	ins, the two shall only
SIP parameter	Offer: m=audio 4711 RTF			<u>,, </u>		
values	m=audio 4712 RTF	,	-			
	m=video 4713 RTF					
	Answer: m=audio 4711 RTF m=audio 0 RTP/A\ m=video 0 RTP/A\	/P 8	3			
ISUP parameter values						
Comments	SIP-I		SU	T		ISUP
	INVITE(IAM)	→				
	183 Session Progress	+				
	PRACK	→				
	200 OK PRACK	+				
	UPDATE	→			→	IAM
	200 OK UPDATE	+				
			conditions	met		
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			←	RLC

TP101051	SIP reference: RFC	3261 [4]			ISUP reference:		
				Q.1912	2.5 [1], clause 6.1.3.5.1		
TSS reference	SIP-ISUP/Basic call/Sendin						
SIP selection	PICS 4/4 AND PICS 4/5 AN	ID PICS 1/9	AND NOT F	PICS 4/19	9		
criteria							
ISUP selection	NOT PICS 1/6 AND NOT P	ICS 4/1					
criteria	LE ULUL OUT		N //TE	***	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 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				,		
SIP parameter values	m=audio 4712 R	Offer: m=audio 4711 RTP/AVP 8 m=audio 4712 RTP/AVP 8 m=video 4713 RTP/AVP 31					
	m=audio 0 RTP//						
	m=video 0 RTP/A						
ISUP parameter values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→					
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	IAM		
	200 OK UPDATE	+					
			nditions met				
	180 Ringing(ACM)	+		-	ACM		
	200 OK INVITE(ANM)	-		+	ANM		
	ACK	→					
	DVE(DEL)		Conversation		DEL		
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	T		7	RLC		

5.2.1.2 Sending of the Subsequent Address Message (SAM)

TP102001	SIP reference: RF	C 3261 [4]	ISUP reference: Q.1912.5 [1], clause 6.2 a)					
TSS reference	SIP-ISUP/Basic call/Sendi	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 whereby the number of digits in the Request-URI is greater than the number of digits already accumulated for the call, accumulate this digit(s) and try to identify the callee.							
SIP parameter values								
ISUP parameter values	SAM; subsequent number	er (PIXIT)						
Comments	SIP-I	S	UT	ISUP				
	INVITE	→						
	INVITE	→						
	INVITE	→	→	IAM				
	180 Ringing	+	←	ACM				
	200 OK INVITE	+	←	ANM				
	ACK	→						
		Conve	rsation					
	BYE(REL)	→	→	REL				
	200 OK BYE(RLC)	+	+	RLC				

TP102002	SIP reference: RFC 3	3261 [4]	Q.19	ISUP reference: 12.5 [1], clause 6.2 b)				
TSS reference	SIP-ISUP/Basic call/Sending	of the Subseque	•					
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 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.							
SIP parameter values								
ISUP parameter values								
Comments	SIP-I	SI	JT	ISUP				
	INVITE(IAM)	→						
	INVITE(IAM)	INVITE(IAM) →						
	484 Address incomplete	+						
	ACK	→						

5.2.1.3 Sending of COT

TP103001	SIP reference: RFC 3261 [4]			Q.1	ISUP reference: 912.5 [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	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 values	COT continuity indicator: C	ontinuity	7					
Comments	SIP-I		SL	JT	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			

TP103002	SIP reference: RFC 3261 [4]			-	SUP reference: 012.5 [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 o	check succe	essful			
values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	COT		
	200 OK UPDATE	+					
		Preconditions met					
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Conversa	tion			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

5.2.1.4 Receipt of the Address Complete Message (ACM)

TP104001	SIP reference: RFC 326		ISUP reference: Q.1912.5 [1], clause 6.5 2)					
TSS reference	SIP-ISUP/Basic call/Receipt of the	ne Addr	ess complete n	nessa	ge (ACM)			
SIP selection criteria								
ISUP selection criteria								
Test purpose	indicator is set to "no indication":183 Session Progress response	The description of the second						
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	→						
			Conversation	•				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP104002	SIP reference: RFC 3	3261 [4]				SUP reference:
				-	Q.191	2.5 [1], clause 6.5 1)
TSS reference	SIP-ISUP/Basic call/Receipt of	of the Ad	ddress co	mplete m	nessag	je (ACM)
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose SIP parameter values	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.					
ISUP parameter values	ACM FCI: ISUP_ID, ISDN_A OBCI: OBCI INBAND:		S_ID,			
Comments	SIP-I	,	SU	Т		ISUP
Comments	INVITE(IAM)	→	- 00	1	→	IAM
	180 Ringing(ACM)	-			/	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→			_	AINI
	NOIX		Convers	sation	<u> </u>	
	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	61 [4]		Q.1	ISUP reference: 912.5 [1], clause 6.6				
TSS reference	SIP-ISUP/Basic call/Receipt of t	he Call	progress mess	sage (C	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	dication	"						
values	CPG; event information param	neter e	vent indicator:	Alertir	ng				
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 326	1 [4]			ISUP reference: 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 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 values	ACM: Called party status "no inc CPG; event information param		ent indicator: F	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)	→		1	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP105003	SIP reference: RFC 326	61 [4]		Q.1	ISUP reference: 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 received the ACM message, on receipt of a CPG message where the event information parameter event indicator is set to "in-band information or an appropriate pattern is now available": 183 Session Progress response is sent from the I-IWU; the received CPG is encapsulated in the 183 -session Progress.									
SIP parameter		, , , , , , , , , , , , , , , , , , , 		,	.09.000.					
values										
ISUP parameter	ACM: Called party status "no inc	dication	II .							
values	CPG; event information param pattern is now available	neter ev	ent indicator:	in-bar	nd-information or an appropriate					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	183 Session Progress (ACM)	+		+	ACM(no indication)					
	183 Session (CPG)	+		+	CPG (Inband 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 3261 [4]		ISUP reference: Q.1912.5 [1], clause 6.7						
TSS reference	SIP-ISUP/Basic call/Receipt of the Answer message (ANM).								
SIP selection criteria									
ISUP selection criteria									
Test purpose	 Ensure that the SUT, having received the ACM message, on receipt of an ANM message: sends a 200 OK INVITE; the received ANM is encapsulated in the 200 OK INVITE. The bearer path shall be connected in both directions when both of the following conditions are satisfied: the BICC outgoing bearer set-up procedure, (see Recommendation ITU-T Q.1902.4 [i.14]) is successfully completed; and the I-IWU determines (using the procedures defined in RFC 3312 [5]) that sufficient preconditions have been satisfied on the SIP side for session establishment to proceed (if applicable). In addition, if BICC is performing the "Per-call bearer set-up in the forward direction" Outgoing bearer set-up procedure and the Connect Type is "notification not required", the bearer path shall be connected in both directions when the Bearer Set-up request is sent and the I-IWU determines (through the procedures defined in RFC 3312 [5]) that sufficient preconditions have been met for the session to proceed. 								
SIP parameter values	200 OK INVITE with encapsulated ANI	M							
ISUP parameter values	ANM								
Comments	SIP-I INVITE(IAM) → 180 Ringing(ACM) ← 200 OK INVITE(ANM) ← ACK →	SUT Conversation	ISUP → IAM ← ACM ← ANM						
	BYE(REL) → REL 200 OK BYE(RLC) ← RLC								

5.2.1.7 Receipt of the Connect message (CON)

TP107001	SIP reference: RFC 3261 [4] ISUP reference:								
						12.5 [1], clauses 6.4, 6.7			
TSS reference	SIP-ISUP/Basic call/Receipt	of the CC	DNNECT	message	e (COI	N).			
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose		SDP offer was received in the initial INVITE. Ensure that the SUT, on receipt of an CON							
	message:	_							
	 sends a 200 OK INVITE 								
	 the received CON is en 								
	The bearer path shall be cor satisfied:	nnected in	both dire	ections w	hen b	oth of the following conditions are			
			procedur	e, (see R	lecom	mendation ITU-T Q.1902.4 [i.14])			
			oroodura	a dofina	d in DI	FC 3312 [5]) that sufficient			
						sion establishment to proceed (if			
	applicable).								
						the forward direction" Outgoing			
						n not required", the bearer path			
						request is sent and the I-IWU			
			letined in	RFC 331	12 [5])	that sufficient preconditions have			
OID	been met for the session to	proceea.							
SIP parameter values									
ISUP parameter values									
Comments	SIP-I	1	CLI		1	ISUP			
Comments	_	→	SU	<u> </u>	→	IAM			
	INVITE(IAM)	+			7	1			
	200 OK INVITE(CON)				_	CON			
	ACK → Conversation								
	DVE(DEL)	→	Convers	allUH	→	DEL			
	BYE(REL) 200 OK BYE(RLC)	+			7	REL RLC			
	1200 OK DIE(KLU)	7				IKLU			

5.2.1.8 Receipt of the REL message

TP108001	SIP reference: RFC 3]	ISUP reference:					
	Q.1912.5 [1], clause 6.11.2							
TSS reference	SIP-ISUP/Basic call/Receipt of	of the R	elease m	essage (l	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		SU	Т		ISUP		
	INVITE(IAM)	1			→	IAM		
	SIP_FAILURE_VA(REL)	4			+	REL		
	ACK	→			→	RLC		

Table 1

		test purpose TP108001
	←SIP Message SIP_FAILURE_VA	← REL Cause Indicators parameter CV_ISUP
VA_1	404 Not Found	Cause Value No. 1 ("unallocated (unassigned) number")
VA_2	500 Server Internal Error	Cause Value No. 2 ("no route to network")
VA_3	500 Server Internal Error	Cause Value No. 3 ("no route to destination")
VA_4	500 Server Internal Error	Cause Value No. 4 ("Send special information tone")
VA_5	404 Not Found	Cause Value No. 5 ("Misdialled trunk prefix")
VA_6	500 Server Internal Error	Cause Value No. 8 ("Pre-emption")
VA_7	500 Server Internal Error	Cause Value No. 9 ("Pre-emption-circuit reserved for reuse")
VA_8	486 Busy Here	Cause Value No. 17 ("user busy")
VA_9	480 Temporarily unavailable	Cause Value No. 18 ("no user responding")
VA_10	480 Temporarily unavailable	Cause Value No. 19 ("no answer from the user")
VA_11	480 Temporarily unavailable	Cause Value No. 20 ("subscriber absent")
VA_12	480 Temporarily unavailable	Cause Value No. 21 ("all rejected")
VA_13	410 Gone	Cause Value No. 22 ("number changed")
VA_14	480 Temporarily unavailable	Cause Value No. 25 ("Exchange routing error")
VA_15	502 Bad Gateway	Cause Value No. 27 ("destination out of order")
VA_16	484 Address Incomplete	Cause Value No. 28 ("invalid number format (address
170	To 17 tadrese meemplete	incomplete")
VA_17	500 Server Internal Error	Cause Value No. 29 ("facility rejected")
VA_18	480 Temporarily unavailable	Cause Value No. 31 ("normal unspecified")
	and the same of th	(Class default)
VA_19	486 Busy here if Diagnostics indicator includes the (CCBS indicator = CCBS possible)	Cause Value in the Class 010 (No circuit/channel available, Cause Value No. 34)
	else 480 Temporarily unavailable	
VA_20	500 Server Internal Error	Cause Value in the Class 010 (resource unavailable, Cause Value No. 38 to 47) (47 is class default)
VA_21	500 Server Internal Error	Cause Value No. 50 ("requested facility not subscribed")
VA_21 VA_22	500 Server Internal Error (SIP-I only)	Cause Value No. 55 ("incoming calls barred within CUG")
VA_23	500 Server Internal Error	Cause Value No. 57 ("bearer capability not authorized")
VA_24	500 Server Internal Error	Cause Value No. 58 ("bearer capability not presently")
VA_25	500 Server Internal Error	Cause Value No. 63 ("service option not available, unspecified") (Class default)
VA_26	500 Server Internal Error	Cause Value in the Class 100 (service or option not implemented Cause Value No. 65 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_23	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 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 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.									
values	SIP Statue-Code: SIP_FAILUR	L_VA (i iXii)							
ISUP parameter values	REL; cause value: CV_ISUP (PIXIT)									
Comments	SIP-I		SL	JT		ISUP				
	INVITE(IAM)	→		•	→	IAM				
	183 Session Progress(ACM)	+			+	ACM(no indication)				
	SIP_FAILURE_VA(REL)	+			+	REL				
	ACK	1			→	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 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 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 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_FAILU	RE_VA	A (PIXIT)							
ISUP parameter values	REL; cause value: CV_ISUP	(PIXIT)							
Comments	SIP-I		SU	Τ		ISUP				
	INVITE(IAM)	→			→	IAM				
	180 Ringing(ACM)	(+	ACM				
	SIP_FAILURE_VA(REL)	(+	REL				
	ACK	→			→	RLC				

TP108004	SIP reference: RFC 320	61 [4]		ISUP reference:					
				(Q.191	2.5 [1], clause 6.11.2			
TSS reference	SIP-ISUP/Basic call/Receipt of the Release message (REL)								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "no indication", having received a CPG message where the event information parameter event indicator is set to "Alerting", a 180 Ringing message is sent, on receipt of an ISUP REL: • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side; • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA with the encapsulated REL message.								
SIP parameter values	SIP Statue-Code: SIP_FAILURI	E_VA (F	PIXIT)						
ISUP parameter	REL; cause value: CV_ISUP (F	PIXIT)							
values		•							
Comments	SIP-I		Sl	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]		-	SUP reference:					
TSS reference	Q.1912.5 [1], clause 6.11.2									
	SIF-ISUF/Basic call/Receipt	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, 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.									
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 →								
		Con	versation							
	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	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		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	200 OK INVITE(CON)	+		←	CON				
	ACK	→							
			Conversati	on					
	BYE(REL)	+		+	REL				
	200 OK BYE(RLC)	→		→	RLC				

Table 4

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

TP108007	SIP reference: RF	C 3261 [4]		_	SUP reference:	
						2.5 [1], clause 6.11.2	
TSS reference	SIP-ISUP/Basic call/Recei	pt of the R	Release m	essage (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		SU	IT		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	1		
	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: I2.5 [1], clause 6.11.3					
TSS reference	SIP-ISUP/Basic call/Autonomous relea	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)	→		→	IAM					
	480 Temporarily unavailable (REL)	+		+	RSC					
	ACK → RLC									

TP109002	SIP reference: RFC 3261		ISUP reference: Q.1912.5 [1], clause 6.11.3				
TSS reference	SIP-ISUP/Basic call/Autonomous	release a	t I-IWU		1		
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 com	patibility	"Release o	all"			
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM) ← ← ACM						
				+	Any unknown message		
	500 Server internal error(REL)	+		→	REL		
	ACK	→		+	RLC		

TP109003	SIP reference: RFC 326	1 [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 a 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.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 me	essage:				
	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	,	SUT	ISUP				
	INVITE(IAM)	→						
	INVITE(IAM)	→						
	484 Address incomplete	+						
	ACK	→						

TP109005	SIP reference: RFC 326	1 [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 a 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.1912.5 [1], clause 6.11.3				
TSS reference	SIP-ISUP/Basic call/Autonomous release at	I-İWU					
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the call is released due to the BICC/ISUP compatibility procedure for unknown parameters: • sends 500 Server Internal Error.						
SIP parameter values							
ISUP parameter values	Unknown parameter in ACM: Parameter con	npatibility "R	Releas	se call"			
Comments	SIP-I	SUT		ISUP			
	INVITE(IAM) →		→	IAM			
			+	ACM(any unknown			
				parameter)			
	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/Autonomo	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 within the BICC/ISUP procedures: • sends 484 Address Incomplete.								
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 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.11.3			
TSS reference	SIP-ISUP/Basic call/Autonomo	us relea	se 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:					
OID	 sends 480 Temporarily Un 	avaliab	e.				
SIP parameter							
values							
ISUP parameter values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	+		+	ACM		
	T9 expiry						
	480 Temporarily unavailable	+		→	REL		
	ACK	→		+	RLC		

5.2.1.10 Receipt of the Release message BYE/CANCEL

TP110001	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.11.1		
TSS reference	SIP-ISUP/Basic call/Receip	ot of the BYE-C	ANCEL m	essage		
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT on receipt of SIP BYE, the SUT shall send an ISUP REL with the cause value # 16 to the ISUP side.					
SIP parameter values						
ISUP parameter values	REL: Cause value #16, Lo	cation "Network	beyond a	n interwo	rking point"	
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	

TP110002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.11.1					
TSS reference	SIP-ISUP/Basic call/Receipt of the BYE-CANCEL message								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT on rece	eipt of SIP (CANCEL, the	I-IWU sh	nall send an ISUP REL with the				
	cause value # 31 to the ISU	P side.							
SIP parameter	CANCEL without encapsula	ted ISUP m	essage						
values	·		· ·						
ISUP parameter	REL: Cause value #31, Loca	ation "Netw	ork beyond a	n interwo	rking 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: Q.1912.5 [1], clause 6.11.1						
TSS reference	SIP-ISUP/Basic call/Receipt	SIP-ISUP/Basic call/Receipt of the BYA-CANCEL message								
SIP selection criteria										
ISUP selection criteria										
Test purpose		Ensure that the SUT on 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, Loca	tion "Netw	ork beyond ar	n interwo	orking point"					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	BYE	→		→	REL					
	200 OK BYE	+		+	RLC					
	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	SUP reference: [1], clauses 6.11.4 and 5								
TSS reference		SIP-ISUP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented								
SIP selection criteria										
ISUP selection criteria										
Test purpose	already been received on re	a BTE moddago ii tho COT had andady recoived an Mortion the 200 Cit ii vitte moddago								
SIP parameter values										
ISUP parameter values										
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK →									
		C	Conversation							
	BYE(REL)	+		+	RSC					
	200 OK BYE(RLC)	→		→	RLC					

TP111002	SIP reference: RFC 3	3261 [4]			IS	SUP reference:			
				Q.19	12.5 [1], clauses 6.11.4 and 5			
TSS reference	SIP-ISUP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message								
						tion hardware failure oriented			
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT, when a already been received on rec					nessage relating to the call has			
						or the 200 OK INVITE message			
	which had it sent.	Ji iias aii	ready rece	eiveu aii <i>i</i>	ACK IC	or the 200 OK INVITE message			
SIP parameter									
values									
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	+			+	GRS			
	200 OK BYE	→		-	→	GRA			

TP111003	SIP reference: RFC 320	61 [4]			-	SUP reference:			
TSS reference	Q.1912.5 [1], clause 6.11.4 SIP-ISUP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message								
100 reference	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented								
SIP selection	(Corto) or orrotal group broading moodage (Cob) with the indication hardware failure oriented								
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 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	Circuit Group Supervision Mess	age Ty	pe Indicat	or "hard	ware f	ailure oriented"			
Comments	SIP-I		SU	Τ		ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM) ← ANM								
	ACK	→							
			Convers	ation					
	BYE	+			+	CGB(hardware failure)			
	200 OK BYE	→			→	CGBA			

TP111004	SIP reference: RFC 3261 [4] ISUP reference:								
	Q.1912.5 [1], clauses 6.11.4 and 5								
TSS reference	SIP-ISUP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message								
	(GRS) or Circuit group block	ing message (C	GB) with the in	dication hardware failure oriente	ed				
SIP selection									
criteria									
ISUP selection criteria									
Test purpose	already been received on rec 200 OK INVITE if the SUT has	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 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							
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/Receipt of Reset circuit message (RSC), Circuit group reset message								
	(GRS) or Circuit group blockin	ig messa	ge (CG	B) with the	indica	tion hardware failure oriented			
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT, when at	least one	e backw	ard ISUP/E	BICC r	message relating to the call has			
	already been received on rece	ipt of a C	SRS me	essage sen	ds				
	200 OK INVITE if the SUT has	s not yet	receive	d an ACK f	or the	200 OK INVITE:			
	 the SUT shall wait until it 	receives	the AC	K for the 20	00 OK	INVITE before sending the			
	BYE.					ű			
SIP parameter									
values									
ISUP parameter									
values									
Comments	SIP-I			SUT		ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	, ,								
					+	GRS			
	ACK	→			→	GRA			
	BYE	+							
	200 OK BYE	→							

TP111006	SIP reference: RFC 3	3261 [4]		IS	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 blockir	ng message (CG	B) with the ir	ndica	tion hardware failure oriented			
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT, when at already been received on received							
	Message Type Indicator code							
	200 OK INVITE if the SUT ha							
					INVITE before sending the			
	BYE.				g			
SIP parameter								
values								
ISUP parameter	Circuit Group Supervision Me	ssage Type Indi	cator "hardwa	are fa	ailure oriented"			
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		-	ANM			
				+	CGB(hardware failure)			
	ACK	→		→	CGBA			
	BYE	+						
	200 OK BYE	→						

TP111007	SIP reference: RFC 3261	[4]	Q.	ISUP reference: Q.1912.5 [1], clauses 6.11.4 and 5						
TSS reference	SIP-ISUP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented									
SIP selection criteria										
ISUP selection criteria										
Test purpose	already been received on receipt of	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) → IAM									
	180 Ringing(ACM)	+		+	ACM					
	500 Server Internal Error(REL)	+	•	+	RSC					
	ACK → RLC									

TP111008	SIP reference: RFC 326	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 F	Reset circuit n	nessage (RS	SC), C	ircuit group reset message				
	(GRS) or Circuit group blocking	message (CG	B) with the	indica	tion hardware failure oriented				
SIP selection									
criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT, when at leadlready been received on receip a 500 Server Internal Error of	t of a GRS m	essage send		nessage relating to the call has				
SIP parameter values									
ISUP parameter									
values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		1	IAM				
	180 Ringing(ACM)	+		4	ACM				
	500 Server Internal Error	+		+	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 leadleady been received on receipt Message Type Indicator coded a a 500 Server Internal Error of	t of a CG as "hardv	SB message, w vare failure orie	ith the C	Circuit Group Supervision					
SIP parameter values										
ISUP parameter values										
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	180 Ringing(ACM) ← ACM								
	500 Server Internal Error	←		+	CGB(hardware failure)					
	ACK → CGBA									

TP111010	SIP reference: RFC	3261 [4]	ļ	SUP reference:				
	Q.1912.5 [1], clauses 6.11.4 and 5							
TSS reference	SIP-ISUP/Basic call/Receipt							
	(GRS) or Circuit group block	ing message (CG	B) with the indica	tion hardware failure oriented				
SIP selection								
criteria								
ISUP selection criteria								
Test purpose	call association on receipt of bigger than "1":	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	+						
	200 OK BYE	→						

TP111011	SIP reference: RFC 3261 [4]		Q	ISUP reference: Q.1912.5 [1], clauses 6.11.4 and 5				
TSS reference	SIP-ISUP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT 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	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	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 receipt of a SUSPEND message with the suspend indicator set to "network initiated": • is transferred in an INFO message.						
SIP parameter values							
ISUP parameter values	SUS; Suspend indicator: network initiated						
Comments	SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM) ACK INFO(SUS) 200 OK INFO		SUT	÷ + +	ISUP IAM ACM ANM 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	INFO: encapsulated SUS							
values								
ISUP parameter	SUS; Suspend indicator: network initiated; REL: Cause value 102							
values	-							
Comments	SIP-I		SI	UT		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK →							
	Conversation							
	INFO(SUS)	+			+	SUS(network)		
	200 OK INFO	→						
			T6 is	started				
			T6 is e	expired				
	BYE(REL)	+			→	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							
ISUP parameter	RES; Suspend indicator: ne	twork initia	ited				
values							
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 32	61 [4]		ISUP reference:				
			Q.	<u> 1912.5</u>	[1], clause A.1.1.3			
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Confusion message							
SIP selection								
criteria								
ISUP selection								
criteria								
SIP parameter values ISUP parameter values	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 INFO with encapsulated CFN							
Comments	SIP-I				ISUP			
Comments	INVITE	→		→	IAM			
	183 Session Progress(CFN)	+		-	CFN			
	180 Ringing(ACM)	-		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→		- -				
	Communication							
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

5.2.1.15 Segmentation

TP115001	SIP reference: RF	C 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 successfully completed if segmentation applies in backward direction.							
SIP parameter values	180 Ringing - encapsulated ACM: Optional Backward call indicator absent or set to "no additional information will be sent" No action takes place on the SIP side							
ISUP parameter values		all indica		nal infor	mation	will be sent in a segmentation		
Comments	SIP-I		SU	Ī		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
					+	SGM		
	200 OK INVITE(ANM) ← ← ANM							
	ACK	→						
			Convers	ation	•			
	BYE(REL)	→			→	REL		

5.2.2 Interworking from ISUP to SIP-I

5.2.2.1 Sending of the INVITE message

TP301001	SIP reference: RFC 326	[4]		ISUP reference:		
		2.5 [1], clause 7.1 1 a)				
TSS reference	ISUP-SIP/Basic call/Sending of tl	ne INVITE m	essage			
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT in Idle state	on receipt of	of an IAM messa	ge containing the complete		
	called party number and the se	nding comp	lete indication:			
	 sends the INVITE message 	with the enca	apsulated IAM in	the MIME body.		
SIP parameter						
values						
ISUP parameter	IAM; Called party number: with	sending com	plete indication			
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)		

TP301002	SIP reference: RFC 326	1 [4]		IS	SUP reference:		
	Q.1912.5 [1], clause 7.1 1 b)						
TSS reference	ISUP-SIP/Basic call/Sending o	f the INV	ITE 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 nu	mber				
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	1 [4]	Q		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	plete numbe	r					
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]				SUP reference:
				<u> </u>	.5 [1], clause 7.1 1 d)
TSS reference	ISUP-SIP/Basic call/Sending of the II	NVITE me	essage		
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT in Idle state, on called party number where the end timer T _{OIW1} after the receipt of the last sends the INVITE message.	of addres	ss signallin	g is de	
SIP parameter					
values					
ISUP parameter					
values					
Comments	ISUP/BICC	5	SUT		SIP-I
	IAM →				
		T _{OIW}	₁ expiry		
				→	INVITE(IAM)
	ACM ←			+	180 Ringing(ACM)
	ANM			+	200 OK INVITE(ANM)
				→	ACK
		Conv	ersation	•	
	REL →			→	BYE(REL)
	RLC ←			+	200 OK BYE(RLC)

TP301005	SIP reference: RFC 326	SIP reference: RFC 3261 [4]			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 an INVITE message.							
SIP parameter values								
ISUP parameter values								
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM ← 200 OK INVITE(ANN → ACK							
			Conversation					
	REL	→		→	BYE(REL)			
	RLC ← 200 OK BYE(RLC)							

TP301006	SIP reference: RFC 3261 [4]	Į:	SUP reference:			
		Q.191	2.5 [1], clause 7.1 A)			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE	message				
SIP selection criteria	NOT PICS 4/4 AND NOT PICS 4/5 AND N	OT PICS 4/15				
ISUP selection criteria	PICS 1/5					
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message with the complete called party number containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit": • sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "continuity check successful".					
SIP parameter values						
ISUP parameter values						
Comments	ISUP	SUT	SIP-I			
	IAM →					
	COT →	→	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]		SUP reference:			
	Q.1912.5 [1], clause 7.1 A)					
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE r	nessage				
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5 AND NO	T PICS 4/15				
criteria						
ISUP selection	PICS 1/5					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message with the complete called party number containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check performed on previous circuit": • sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "continuity check successful".					
SIP parameter values						
ISUP parameter values						
Comments	ISUP	SUT	SIP-I			
	IAM →					
	COT →	→	INVITE(IAM)			
	ACM ←	+	180 Ringing(ACM)			
	ANM ←	+	200 OK INVITE(ANM)			
		→	ACK			
	Cor	versation				
	REL →	→	BYE(REL)			
	RLC ←	+	200 OK BYE(RLC)			

TP301008	SIP reference: RFC 326	1 [4]	ISUP reference:			
			Q.191	12.5 [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.19	ISUP reference: 912.5 [1], clause 7.1 A)				
TSS reference	ISUP-SIP/Basic call/Sending of the	e INVITE me						
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	SUT	SIP-I				
	IAM →							
		T8 (expiry					
	REL ◀	E						
	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	ie INVITE m	essage					
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND PIC	PICS 4/4 AND PICS 4/5 AND 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 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	and the same of th							
ISUP parameter values								
Comments	ISUP		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)				

TP301011	SIP reference: RFC 32	61 [4]			19	SUP reference:		
		· · [·]		G	2.191	2.5 [1], clause 7.1 B)		
TSS reference	ISUP-SIP/Basic call/Sending of	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	PICS 4/4 AND PICS 4/5 AND P	ICS 4	15	<u> </u>				
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 th	e reques	sted precon	dition	s are met in the SIP network.		
SIP parameter								
values								
ISUP parameter values								
Comments	ISUP	1		UT		SIP-I		
Comments	IAM	→	3	101	→	INVITE(IAM)		
	IAW	7			7	, ,		
					<u>▼</u>	183 Session Progress PRACK		
					7			
	COT(avacactul)	→			<u>▼</u>	200 OK PRACK UPDATE		
	COT(successful)	7			7	200 OK UPDATE		
			Duanana	litions met		200 OK UPDATE		
	A C N A	+	Precond	illions met	+	400 Dinging (ACM)		
	ACM ANM	+				180 Ringing(ACM) 200 OK INVITE(ANM)		
	AINIVI					ACK		
			Corre	orootion	7	AUN		
	REL	_	Conve	ersation		DVE/DEL\		
		→			<u>→</u>	BYE(REL)		
	RLC ← 200 OK BYE(RLC)							

TP301012	SIP reference: RFC 3261 [4]	Į:	SUP reference:	
			Q.191	2.5 [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	PICS 1/5 AND PICS 4/2				
criteria					
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message where the Continuity Check indicator in the Nature of Connection Indicators parameter in the IAM is set to indicate "continuity check performed on previous circuit": • sends an INVITE message with precondition using the SDP offer in the INVITE. The SDP offer or answer carrying the confirmation of a precondition being met is sent when the Continuity message with the Continuity Indicators parameter set to "continuity check successful" was received and the requested preconditions are met in the SIP network.				
SIP parameter	Cuccesiai was received and	tilo roquo	stod prodoridition	s are met in the en metwork.	
values					
ISUP parameter					
values					
Comments	ISUP	5	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	1 [4]	0.10	ISUP reference:				
TSS reference	ISLIP-SIP/Basic call/Sending of t	Q.1912.5 [1], clause 7.1 B) ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection criteria		PICS 4/4 AND PICS 4/5 AND PICS 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	00.100 07.110 22 07.110 07.							
ISUP parameter values								
Comments	ISUP	,	SUT	SIP-I				
	IAM	→	→	INVITE(IAM)				
			+	100 Trying				
	COT(unsuccessful)	→	→	CANCEL				
			+	200 OK CANCEL				
			+	487 Request Terminated				
			→	ACK				

TP301014	SIP reference: RFC 326	SIP reference: RFC 3261 [4] ISUP reference:					
				Q.1912	2.5 [1], clause 7.1 B)		
TSS reference	ISUP-SIP/Basic call/Sending of	the INVIT	E message				
SIP selection	PICS 4/4 AND PICS 4/5 AND PI	ICS 4/15					
criteria							
ISUP selection	PICS 1/5 AND PICS 4/2						
criteria							
Test purpose	The SUT in Idle state, receives a						
	the Nature of Connection Indica						
	this circuit" and sends an INVI						
	INVITE. The ISUP Timer T8 exp	oires. The	e call has be	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]	19	SUP reference:			
		Q.1912	2.5 [1], clause 7.1 C)			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE m	essage				
SIP selection	NOT PICS 4/15					
criteria						
ISUP selection	PICS 1/4					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of	of an IAM message	e indicating "COT to be			
	expected":					
	 The sending of the INVITE is delayed un 					
	 Continuity message, with the Con 	tinuity Indicators p	arameter set to "continuity"			
	shall be received;					
	 Bearer Set-up indication - for the 					
	Connect Type is "notification not r	equired" was rece	ived.			
SIP parameter						
values						
ISUP parameter						
values						
Comments		SUT	SIP-I			
	IAM →					
	COT(successful) →	→	INVITE(IAM)			
	ACM ←	←	180 Ringing(ACM)			
	ANM ← 200 OK INVITE(ANM)					
		→	ACK			
	Con	versation				
	REL →	→	BYE(REL)			
	RLC ←	+	200 OK BYE(RLC)			

TP301016	SIP reference: RFC 326	1 [4]	0.40	ISUP reference:	
TSS reference	ISUP-SIP/Basic call/Sending of t	he INVITE r		12.5 [1], clause 7.1 C)	
SIP selection	NOT PICS 4/15	IIIC IIIVII L I	lessage		
criteria	1100 4/10				
ISUP selection	PICS 1/4				
criteria					
Test purpose SIP parameter values	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 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.				
ISUP parameter values					
Comments	BICC		SUT	SIP-I	
	IAM	→			
	COT(successful)	→			
	APM	→	→	INVITE(IAM)	
	ACM	+	+	180 Ringing(ACM)	
	ANM	+	+	200 OK INVITE(ANM)	
			→	ACK	
			versation		
	REL	→	→	BYE(REL)	
	RLC	←	+	200 OK BYE(RLC)	

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

TP301018	SIP reference: RFC 326		Q.1912.	SUP reference: 5 [1], clause 7.1 C) 2.4				
TSS reference	ISUP-SIP/Basic call/Sending of	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection criteria	NOT PICS 4/15							
ISUP selection criteria	PICS 1/4	PICS 1/4						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected": 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	S	SUT	SIP-I				
	IAM	→						
	COT(successful)	→	→	INVITE(IAM)				
	ACM	+	+	180 Ringing(ACM)				
	ANM ← 200 OK INVITE(ANI							
			→	ACK				
		Conv	ersation					
	REL	→	→	BYE(REL)				
	RLC	←	←	200 OK BYE(RLC)				

TP301019	SIP reference: RFC 326	61 [4]		0.10	ISUP reference:		
TSS reference	Q.1912.5 [1], clause 7.1 C) ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	NOT PICS 4/15	LITE IIV	IIL IIICSSa	ye			
criteria	110111034/13						
ISUP selection criteria	PICS 1/4	PICS 1/4					
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected": • sends not the INVITE if the Continuity message was not received, i.e. the BICC timer T8 expires: • send REL with Cause Value 41 (temporary failure) shall be sent on the BICC side of the O-IWU.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP		SUT		SIP-I		
	IAM	→					
	T8 expires						
	REL(#41)	+					
	RLC →						

TP301020	SIP reference: RFC 3261 [4]			ISUP reference:			
				912.5 [1], clause 7.1 D)			
TSS reference	ISUP-SIP/Basic call/Sending of the If	NVITE me	essage				
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 4	/15					
criteria							
ISUP selection	PICS 1/4 AND PICS 4/2	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; 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	S	SUT	SIP-I			
	IAM →			► INVITE(IAM)			
			•	► 183 Session Progress			
				▶ PRACK			
			•	200 OK PRACK			
	COT(successful) →			▶ UPDATE			
			•	200 OK UPDATE			
		Precond	litions met				
	ACM ←		•	180 Ringing(ACM)			
	ANM ←		•	200 OK INVITE(ANM)			
				→ ACK			
		Conv	ersation				
	REL →] =	► BYE(REL)			
	RLC +		•	200 OK BYE(RLC)			

TP301021	SIP reference: RFC 3261 [4] ISUP reference:							
				1912.	5 [1], clause 7.1 D) 2.2			
TSS reference	ISUP-SIP/Basic call/Sending of the IN	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 4/15							
criteria								
ISUP selection	PICS 1/4 AND PICS 4/2	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)			
				4	183 Session Progress			
				→	PRACK			
				4	200 OK PRACK			
	COT(successful) →			→	UPDATE			
				+	200 OK UPDATE			
		Precond	itions met					
	ACM ←			+	180 Ringing(ACM)			
	ANM			4	200 OK INVITE(ANM)			
				1	ACK			
		Conve	rsation					
	REL →			→	BYE(REL)			
	RLC C			+	200 OK BYE(RLC)			

TP301022	SIP reference: RFC 3261 [4]		0.1		SUP reference: 5 [1], clause 7.1 D) 2.3		
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 4		ssaye				
criteria	FICS 4/4 AIND FICS 4/5 AIND FICS 4	713					
ISUP selection criteria	PICS 1/4						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when: Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received; Bearer Set-up Connect indication - for the backward bearer set-up case was received.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP/BICC	S	UT		SIP-I		
	IAM →			→	INVITE(IAM)		
				+	183 Session Progress		
				→	PRACK		
				+	200 OK PRACK		
	COT(successful) →			→	UPDATE		
	,			+	200 OK UPDATE		
		Precond	itions met				
	ACM ←			+	180 Ringing(ACM)		
	ANM 🔸			+	200 OK INVITE(ANM)		
				→	ACK		
		Conve	ersation				
	REL →			→	BYE(REL)		
	RLC 🗲			+	200 OK BYE(RLC)		

TP301023	SIP reference: RFC 3261 [4	SIP reference: RFC 3261 [4] ISUP reference:						
			Q.1	912.	5 [1], clause 7.1 D) 2.4			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message							
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	2.10 001 00 000000	0. 00.000	aon ig boaro.					
values								
ISUP parameter								
values								
Comments	BICC	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)			

TP301024	SIP reference: RFC 326	61 [4]		15	SUP reference:		
	Q.1912.5 [1], clause 7.1 D)						
TSS reference	ISUP-SIP/Basic call/Sending of	the INVITE 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		
				1	ACK		

TP301025	SIP reference: RFC 3261 [4]			ISUP reference:			
	Q.1912.5 [1], clause 7.1						
TSS reference	ISUP-SIP/Basic call/Sending of the INVI	ITE mes	sage				
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 4/15	5					
criteria							
ISUP selection	PICS 1/4 AND PICS 4/2						
criteria							
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "COT to be expected". Ensure that the SUT: • 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	SU	T	SIP-I			
	IAM →			► INVITE(IAM)			
			•	► 100 Trying			
	internal resource reservation was unsuccessful						
	REL(#47) ← CANCEL						
	RLC →			E 200 OK CANCEL			
				 487 Request Terminated 			
			-	◆ ACK			

TP301026	SIP reference: RFC 3		ISUP reference: Q.1912.5 [1], clause 7.1.1					
TSS reference	ISUP-SIP/Basic call/Sending of	of the INVIT	E message					
SIP selection criteria	Based on table 6		_					
ISUP selection criteria								
Test purpose	Ensure that the SUT in the Idle state on receipt of a IAM message, with the Transmission Medium Requirement (TMR) parameter set to TMR_VALUE if no USI parameter is contained in the IAM: sends an INVITE message containing the media description defined with the "a =" "b =" and "m=" lines set to a_b_m_LINE_VALUE.							
SIP parameter values	INVITE: a_b_m_LINE_VALUE							
ISUP parameter values	IAM: TMR: ISUP_TMR							
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
		→ ACK						
		Co	nversation					
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP301027	SIP reference: RFC 3261 [4]			_	SUP reference: 2.5 [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_VALUE	-						
ISUP parameter values	IAM: USI: ISUP_USI							
Comments	ISUP/BICC	5	SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
		Conve	ersation					
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

Table 5: Void

Table 6

	Values for test purposes TP301026								
	ISUP SDP - a_b_m_LINE_VALUE								
	TMR parameter	m= line			b= line	a= line			
	TMR codes	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandw idth-value=""></bandw></modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters></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 test purposes TP301027									
VA		ISI	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>	

TP301027A	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause 7.1.2 TS 129 164 [10], clause 6.2.4.2				
TSS reference	ISUP-SIP/Basic call/Sending of the IN\	/ITE mess	sage				
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT is changing the received User information layer 1 protocol contained in the USI from A-law to μ -law if transcoding is performed from A-law to μ -law in the outgoing IWU.						
SIP parameter values	INVITE: IAM USI User information layer	er 1 protoc	ol=µ-Law				
ISUP parameter values	IAM: USI User information layer 1 prote	ocol=A-La	w				
Comments	ISUP/BICC	SUT		SIP-I			
	IAM →		→	INVITE(IAM)			
	ACM ←		+	180 Ringing(ACM)			
	ANM ←		+	200 OK INVITE(ANM)			
	→ ACK						
		Conversat	ion				
	REL →		→	BYE(REL)			
	RLC ←	•	+	200 OK BYE(RLC)			

TP301027B	SIP reference: RFC 3	3261 [4]	ISUP reference: Q.1912.5 [1], clause 7.1.2 TS 129 164 [10], clause 6.2.4.2					
TSS reference	ISUP-SIP/Basic call/Sending	of the INVITE m	essage					
SIP selection criteria								
ISUP selection criteria								
Test purpose		Ensure that the SUT is changing the received User information layer 1 protocol contained in the USI from μ -law to A -law if transcoding is performed from μ -law to A -law in the outgoing IWU.						
SIP parameter values	INVITE: IAM USI User inform	ation layer 1 pro	tocol= A-Law					
ISUP parameter values	IAM: USI User information lay	rer 1 protocol= µ	ı-Law					
Comments	ISUP/BICC	SI	JT	SIP-I				
	IAM	→	→	INVITE(IAM)				
	ACM	+	+	180 Ringing(ACM)				
	ANM							
	→ ACK							
		Convei	rsation					
	REL	→	→	BYE(REL)				
	RLC	+	+	200 OK BYE(RLC)				

TP301028	SIP reference: RFC 3261 [4]			_	SUP reference: 2.5 [1], clause 7.1.2			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Called Party Number para	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 in the INVITE message.						
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)			

TP301029	SIP reference: RFC 3	261 [4]	_	SUP reference:				
	Q.1912.5 [1], clause 7.1.2							
TSS reference	ISUP-SIP/Basic call/Sending	of the INVITE r	nessage					
SIP selection criteria								
ISUP selection criteria								
Test purpose	Called Party Number parame to the addr-spec compon	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=pho	one						
ISUP parameter values								
Comments	ISUP/BICC	S	UT	SIP-I				
	IAM	→	→	INVITE(IAM)				
	ACM	+	+	180 Ringing(ACM)				
	ANM	+	+	200 OK INVITE(ANM)				
	→ ACK							
		Conve	rsation					
	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	Called Party Number parame	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM and the and the followed SAM: to the addr-spec component of the To header field.						
SIP parameter values	INVITE: To:							
ISUP parameter values								
Comments	ISUP/BICC		SU	T		SIP-I		
	IAM	→						
	SAM	→						
	SAM	→			→	INVITE(IAM)		
	ACM	+			+	180 Ringing(ACM)		
	ANM	+			+	200 OK INVITE(ANM)		
					1	ACK		
			Convers	sation				
	REL	→			→	BYE(REL)		
	RLC	+		· ·	+	200 OK BYE(RLC)		

TP301031	SIP reference: RFC 3261 [4]	_	SUP reference: 12.5 [1], clause 7.1.2				
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE n						
SIP selection criteria	NOT PICS 1/9	_					
ISUP selection criteria							
Test purpose	Ensure that the SUT is mapping in the Called Party Number parameter contained in the Called Party address information of the IAM and followed SAM: to the addr-spec component of the 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	IAM → SAM →	UT	SIP-I				
	SAM → ACM ←	→	INVITE(IAM) 180 Ringing(ACM)				
	ANM ← 200 OK INVITE(ANM) → ACK						
	REL →	rsation	BYE(REL)				
	RLC ←	←	200 OK BYE(RLC)				

TP301032	SIP reference: RF0	C 3261 [4]	Q.19	ISUP reference: 12.5 [1], clause 7.1.4
TSS reference	ISUP-SIP/Basic call/Sendir	ng of the Initial A	ddress Message	(IAM)
SIP selection criteria				
ISUP selection criteria	PICS 4/3			
Test purpose	The O-IWU acting as an incommer procedure as it commerced to the commerced transfer of the comme			m the normal BICC/ISUP Hop ed 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
		Conv	ersation	
	REL	→	→	BYE(REL)
	RLC	+	+	200 OK BYE(RLC)

TP301033	SIP reference: RFC	3261 [4]	l		-	SUP reference: 2.5 [1], clause 7.1.2
TSS reference	ISUP-SIP/Basic call/Sending	g of the I	NVITE me	ssage		
SIP selection criteria	PICS 1/9					
ISUP selection criteria	PICS 1/8					
SIP parameter values ISUP parameter	to the addr-spec component The format of the To header	eter, Nat t of the T r field is "	ure of ado o header +CC+ND0	dress = field in t C+SN":	"Inter he IN\	national number" of the IAM
values						
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)

TP301034	SIP reference: RFC	3261 [4]		_	SUP reference: 12.5 [1], clause 7.1.2
TSS reference	ISUP-SIP/Basic call/Sending	of the INVI	TE messac		12.5 [1], Clause 7.1.2
SIP selection criteria	PICS 1/9				
ISUP selection criteria	NOT PICS 1/8				
Test purpose	Ensure that the SUT is mapp Called Party Number parame of the IAM: to the addr-spec compor the format of the To head the forward address information Request-URI.	eter, Nature nent of the der field is '	of addres To header 1 +CC+NDC	s = "Natio field in the +SN";	onal (significant) number"
SIP parameter values	INVITE: To: URI, tag, parame	eters			
ISUP parameter values					
Comments	ISUP/BICC		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		←	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
		С	onversation)	
	REL	→		→	BYE(REL)
	RLC	←		+	200 OK BYE(RLC)

TP301035	SIP reference: RFC 3	261 [4]	Q.19	ISUP reference: 012.5 [1], clause 7.1.2
TSS reference	ISUP-SIP/Basic call/Sending of	of the I	NVITE me	essage	
SIP selection	PICS 1/9				
criteria					
ISUP selection	PICS 1/8				
criteria					
Test purpose	 and the and the followed SAM to the addr-spec compone the format of the To head 	er, Na : ent of t er field	ture of ad the To hea t is "+CC+	ldress = "Inte ader field; ·NDC+SN";	formation contained in the rnational number" of the IAM r info component of the INVITE
SIP parameter values	INVITE: To: URI, tag, paramet	ters			
ISUP parameter values					
Comments	ISUP/BICC		SU	T	SIP-I
	IAM	→			
	SAM	→			
	SAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	←		+	200 OK INVITE(ANM)
				→	ACK
			Convers	sation	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP301036	SIP reference: RFC 3261 [4]			ISUP reference:
				12.5 [1], clause 7.1.2
TSS reference	ISUP-SIP/Basic call/Sending of the INVIT	E message		
SIP selection criteria	PICS 1/9			
ISUP selection	NOT PICS 1/8			
criteria				
Test purpose	Ensure that the SUT is mapping the Called Called Party Number parameter, Nature of the IAM and the followed SAM: to the addr-spec component of the Total the format of the Total header field is "-1", the forward address information is de Request-URI.	of address o header ficeC+NDC+	= "Nati eld ; SN";	onal (significant) number"
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
	Co	nversation		
	REL →		→	BYE(REL)
	RLC ←		+	200 OK BYE(RLC)

5.2.2.2 Void

5.2.2.3 Sending of the ACM message

TP303001	SIP reference: RFC 3261	[4]];	SUP reference:
				12.5 [1], clause 7.1,
				[i.12], clause 2.1.4.8
TSS reference	ISUP-SIP/Basic call/Sending of the	e ACM mess	sage	
SIP selection	PICS 1/3			
criteria				
ISUP selection	PICS 4/9			
criteria				
Test purpose	Ensure that the SUT in Idle state,			e containing the complete
	called party number and the sen			
	Sends the INVITE message to call			ssage with:
	the CPS indicator set to "no it			
	 the Called party's category i 	ndicator se	et to "no indication	n(00)" or "ordinary subscriber
	(01)" or "payphone (10)";			
	the interworking indicator set			
	the ISUP indicator set to "ISU			
	 the ISDN access indicator se 	et to "ISDN_	_ACC_IND_VAL".	
SIP parameter				
values				
ISUP parameter	IAM; Called party number: compl			
values	ACM, CPS indicator no indication			
	Called party's category indicato	r : no indicat	ion(00) or ordinai	ry subscriber (01) or payphone
	(10)	\	- \	
	interworking indicator: INT_IND)	
	ISUP indicator: ISUP_IND_ID (PI		(DI)/IT)	
Commonto	ISDN access indicator ISDN_AC		,	loip i
Comments	ISUP/BICC		SUT	SIP-I
		→	→	INVITE(IAM)
		-	-	1.22.21 1 (1.22.1)
	(-	-	180 Ringing(ACM)
	ANM	-	<u> </u>	200 OK INVITE(ANM)
			`	ACK
	DE!		ersation	D)(E(DEL)
	REL		→	BYE(REL)
	RLC	-	←	200 OK BYE(RLC)

TP303002	SIP reference: RFC 3261 [4]		Q.191 Q.764	SUP reference: 2.5 [1], clause 7.1, i.12], clause 2.1.4.8
TSS reference	ISUP-SIP/Basic call/Sending of the AC	M messa	ige	
SIP selection criteria	PICS 1/3			
ISUP selection criteria	PICS 4/9			
Test purpose	Ensure that the SUT in Idle state, on re number of digits used in the national sends the INVITE message to call sends the ACM message with; the CPS indicator set to "no indice the Called party's category indice (01)" or "payphone (10)"; the interworking indicator set to the ISUP indicator set to "ISUP_I the ISDN access indicator set to	al number ed user; ation (00 cator set "INT_INI ND_ID";	ring plan:)"; to "no indication D_VAL";	,
SIP parameter values	the legit access majories conte	10011_7	. <u></u>	
ISUP parameter values	IAM; Called party number: complete in ACM, Backward call indicator is set to indication (00) Called party's category indicator: no (10) interworking indicator: INT_IND_VAI ISUP indicator: ISUP_IND_ID (PIXIT) ISDN access indicator ISDN_ACC_IND_ID	the value indicatio (PIXIT)	n(00) or ordinar	
Comments	ISUP/BICC	Sl	JT .	SIP-I
	IAM -		→	INVITE(IAM)
	ACM(no indication)			122 21 (122 2)
	CPG(Alerting) ←		-	180 Ringing(ACM)
	ANM ←		(200 OK INVITE(ANM)
		Conve	· · · · · · · · · · · · · · · · · · ·	ACK
	REL →	Conve	sation	DVE(DEL)
	REL →		+	BYE(REL)
	KLC 🗲		<u> </u>	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 the	e ACM mes	sage	
SIP selection criteria	PICS 1/3			
ISUP selection criteria	PICS 4/9			
Test purpose	Ensure that the SUT in Idle state, called party number where the elecalled party number to indicate that route the call to the called party. sends the INVITE message to sends the ACM message with party's category indicator set "payphone (10)", the interwork set to "ISUP_IND_ID", the ISE	nd of addres it a sufficient called user the CPS in the to "no ind king indica	ss signalling is dent number of dig ;; ;; idicator set to "n ication(00)" or "o ator set to "INT_I	etermined by analysis of the gits has been received to no indication (00)", the Called ordinary subscriber (01)" or IND_VAL", the ISUP indicator
SIP parameter values				
ISUP parameter values	IAM; Called party number: compl ACM, CPS indicator no indication Called party's category indicator (10) interworking indicator: INT_IND_ ISUP indicator: ISUP_IND_ID (PI ISDN access indicator ISDN_AC	(00) r: no indicat _VAL (PIXIT XIT) C_IND_VAL	ion(00) or ordina (PIXIT)	
Comments	ISUP/BICC	5	SUT	SIP-I
		>	→	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 326	S1 [4]			19	SUP reference:
11 000004		, [- <u>]</u>		Q.1912		clauses 7.1 1) d), 7.3.1, 7.4
TSS reference	ISUP-SIP/Basic call/Sending of	the AC	CM mess		[-],	
SIP selection	PICS 1/3					
criteria						
ISUP selection	NOT PICS 4/9					
criteria						
Test purpose	party's category indicator "payphone (10)", the interw	end of the late to cal tith the set to	of address est addre led user; c CPS ind "no indic g indicat	s signalling ss messag licator set ation(00)" or set to "	g is de ge: t to "no or "or INT_II	termined by the expiration o indication (00)", the Called rdinary subscriber (01)" or ND_VAL", the ISUP indicator
SIP parameter	set to "ISUP_IND_ID", the I	SDN a	access in	idicator s	et to "I	SDN_ACC_IND_VAL".
values						
ISUP parameter	IAM; Called party number: con	nnlete	number			
values	ACM, CPS indicator no indicati					
	Called party's category indica	tor: no	o indication	on(00) or o	ordina	ry subscriber (01) or payphone
	(10)					
	interworking indicator: INT_IN					
	ISUP indicator: ISUP_IND_ID (ISDN access indicator ISDN_A			/DIVIT\		
Comments	ISUP/BICC	100_11	SI	· /		SIP-I
Comments	IAM	→		<i>)</i>		OII -1
	I/ UVI		T _{OIW1}	expiry	<u>l</u>	
	ACM(no indication)	+			→	INVITE(IAM)
	CPG(Alerting)	←			+	180 Ringing(ACM)
	ANM	←			+	200 OK INVITE(ANM)
				<u> </u>	→	ACK
			Conve	rsation		
	REL	+			→	BYE(REL)
	RLC	+			←	200 OK BYE(RLC)

TP303005	SIP reference: RFC 326	61 [4]			I	SUP reference:
					1912.5	5 [1], clauses 7.1, 7.3.1
TSS reference	ISUP-SIP/Basic call/Sending of	the AC	M mess	age		
SIP selection	PICS 1/3					
criteria						
ISUP selection	NOT PICS 4/9					
criteria						
Test purpose	Ensure that the SUT if overlap a an IAM message containing the has been received (start timer procedure): • sends an INVITE message	minim TOIW2 to the	um nun and invocalled us	nber of digoke the ap er and afte	gits re propri er the	equired for routing the call ate outgoing SIP signalling expiration of T _{OIW2} ;
	party's category indicator	set to	"no indicat	ation(00)" or set to "	or "oı INT_II	ND_VAL", the ISUP indicator
SIP parameter values						
ISUP parameter	IAM; Called party number: con	nplete i	number			
values	ACM, CPS indicator no indicati					
	Called party's category indica	tor: no	indication	on(00) or o	ordina	ry subscriber (01) or payphone
	(10)					
	interworking indicator: INT_IN					
	ISUP indicator: ISUP_IND_ID ((= 1) (I=)		
	ISDN access indicator ISDN_A	ACC_IN				loin i
Comments	ISUP/BICC	_	SI	JT		SIP-I
	IAM	→				
	SAM	→				INDUSTRIAL
	SAM	→			→	INVITE(IAM)
			I OIW2	expiry		
	ACM(no indication)	+				
	CPG(Alerting)	←			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					→	ACK
			Conve	rsation		
	REL	→			→	BYE(REL)
	RLC	←			←	200 OK BYE(RLC)

TP303006	SIP reference: RFC 3261 [4]		ISUP reference:
		Q.1912.5	[1], clauses 7.1 1) a), 7.3.1
TSS reference	ISUP-SIP/Basic call/Sending of the ACM me	essage	
SIP selection	PICS 1/3		
criteria			
ISUP selection	NOT PICS 4/9		
criteria			
Test purpose	Ensure that the SUT in Idle state, on receipt		ge containing the complete
	called party number, on receipt of a 180 R	inging message:	
	 Sends the ACM message with: 		
	 the CPS indicator set to the value 		
	 the Called party's category indi 		
	 the interworking indicator set to 		
	 the ISUP indicator set to the value 		
	 the ISDN access indicator set to 	the value in the	encapsulated ACM.
SIP parameter			
values			
ISUP parameter	IAM; Called party number: complete numb		
values	ACM, Backward call indicator is set to the va		
Comments	ISUP/BICC	SUT	SIP-I
	IAM →	→	
	ACM ←	+	
	ANM ←	+	200 OK INVITE(ANM)
		→	ACK
	Cor	nversation	
	REL →	→	BYE(REL)
	RLC ←	+	200 OK BYE(RLC)

SIP selection criteria ISUP selection criteria Test purpose Ensur called significant selection criteria Test purpose Isup parameter values Isup parameter values Comments Isup/IAM ACM(SIP reference: RFC 3261 [4] SIP/Basic call/Sending of the AC 3/1 PICS 4/9 e that the SUT in Idle state, on religion on receipt of a 1 ends the ACM message; are encapsulated ACM message	CM message receipt of an IAM me 183 Session Progres	essage	n encapsulated ACM:
SIP selection criteria ISUP selection criteria ISUP selection criteria Test purpose • so • th SIP parameter values ISUP parameter values Comments ISUP/IAM ACM(PICS 4/9 e that the SUT in Idle state, on relation of a 1 party number on receipt of a 1 ends the ACM message;	CM message receipt of an IAM me 183 Session Progres	essage	e containing the complete n encapsulated ACM:
SIP selection criteria ISUP selection criteria ISUP selection criteria Test purpose • so • th SIP parameter values ISUP parameter values Comments ISUP/IAM ACM(PICS 4/9 e that the SUT in Idle state, on relation of a 1 party number on receipt of a 1 ends the ACM message;	receipt of an IAM me 183 Session Progres	ss with	n encapsulated ACM:
criteria Test purpose Ensur called so the street to the st	e that the SUT in Idle state, on relation of a 1 party number on receipt of a 1 ends the ACM message;	183 Šession Progres	ss with	n encapsulated ACM:
called SIP parameter values ISUP parameter values Comments ISUP/ IAM ACM(I party number on receipt of a 1 ends the ACM message;	183 Šession Progres	ss with	n encapsulated ACM:
SIP parameter values ISUP parameter values Comments ISUP/ IAM ACM(is sent unonanged i	Dacky	
values Comments ISUP/ IAM ACM(Called party number: complete			
IAM ACM(
ANM	BICC no indication) Alerting) ←	SUT	→ ← ← ←	SIP-I INVITE(IAM) 183 Session Progress(ACM) 180 Ringing(CPG) 200 OK INVITE(ANM) ACK
REL RLC		Conversation	→	BYE(REL)

TP303011	SIP reference	: RFC	3261 [4]		ISUP reference:		
					Q.1912.5 [1], clauses 7.1, 7.3.1, 7.4		
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection criteria	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						
SIP parameter values	55(15 166)	,		<u> </u>	ess indicator set to "ISDN_ACC_IND_VAL".		
ISUP parameter	IAM; Called party nui	mber:	complete	e nur	mber		
values	ACM,						
		CPS indicator no indication (00)					
	Called party's categor	ory in	dicator: r	no ind	dication(00) or ordinary subscriber (01) or payphone		
	(10)interworking indi	icator	: INT_INI	D_VA	AL (PIXIT)		
	ISUP indicator: ISUP	_IND_	_ID (PIXI	Γ)	,		
	ISDN access indicate	or ISD	N_ACC_	IND_			
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
				+	183 Session Progress without encapsulated ACM		
	COT	→		→	UPDATE		
				+	200 OK UPDATE		
	T _{OIW1} expiry						
	ACM(no indication) ←						
	CPG(Alerting, BCi)	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
		→ ACK					
		Co	nversatio	n			
	REL	→		→	BYE(REL)		
	RLC						

TP303012	SIP reference:	RFC	3261 [4]		ISUP reference:		
					Q.1912.5 [1], clauses 7.1, 7.3.1, 7.4		
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message						
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 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	1000						
ISUP parameter values	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		
		To	_{DIW2} expiry	/			
	ACM(no indication)	+					
	CPG(Alerting, BCi)	←		(180 Ringing(ACM)		
	ANM	←		←	200 OK INVITE(ANM)		
	→ ACK						
		Сс	nversatio	n			
	REL	→		→	BYE(REL)		
	RLC	+		←	200 OK BYE(RLC)		

TP303013	SIP refere	ence	RFC 3261 [4]		ISUP reference:			
					Q.1912.5 [1], clauses 7.1, 7.3.1, 7.4			
TSS reference	ISUP-SIP/Basic call/Sending of the ACM message							
SIP selection	PICS 1/3				-			
criteria								
ISUP selection	PICS 4/2 AND NO	OT P	CS 4/9					
criteria								
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete							
					k is performed (ISUP) or COT is expected (BICC)			
	indication receipt			essa	ge:			
			nessage with:					
					in the encapsulated ACM;			
					ator set to the value in the encapsulated ACM;			
	 the interworking indicator set to the value in the encapsulated ACM; 							
	 the ISUP indicator set to the value in the encapsulated ACM; 							
OID	the ISDN access indicator set to the value in the encapsulated ACM.							
SIP parameter								
values	IAAA Oollad waata waxabaa aa aa lata waxabaa							
ISUP parameter values	IAM; Called party number: complete number ACM, Backward call indicator is set to the value in the encapsulated ACM							
Comments	ISUP/BICC	ali ir		tne				
Comments		→	SUT	→	SIP-I			
	IAM	7			INVITE(IAM)			
	OOT	→		<u>←</u>	183 Session Progress without encapsulated ACM			
	СОТ	7		7	UPDATE			
	A O N 4				200 OK UPDATE			
	ACM ← 180 Ringing(ACM)							
	AINIVI	ANM ← 200 OK INVITE(ANM)						
		ACK						
	DEL	_	Conversation	_	DVE(DEL)			
	REL	}		}	BYE(REL)			
	RLC	LC						

TP303014	SIP reference: RFC 3261 [4]			SUP reference:			
	Q.1912.5 [1], clauses 7.1, 7.3.1, 7.4						
TSS reference	ISUP-SIP/Basic call/Sending of the IN\	/IIE mes	sage				
SIP selection criteria	PICS 1/3 AND PICS 3/2 AND NOT PICS 4/15						
ISUP selection	PICS 3/8 AND PICS 4/2 AND NOT PIC	CS 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 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 (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: INT_IND_VAL (PIXIT) ISUP indicator: ISUP_IND_ID (PIXIT) ISDN access indicator: ISDN_ACC_IND_VAL (PIXIT) CPG: Event indicator = ALRTING and the BCI from the ACM encapsulated in the received						
Comments	180 Ringing ISUP/BICC	SU	Т	SIP-I			
	IAM →						
	COT →		→	INVITE(IAM)			
	T _{OIW2} expiry						
	ACM(no indication)						
	CPG(Alerting)		+	180 Ringing(ACM)			
	ANM ←		+	200 OK INVITE(ANM)			
	→ ACK						
		Conver	sation				
	REL →	· · · · · ·	→	BYE(REL)			
	RLC +		+	200 OK BYE(RLC)			

TP303015	SIP reference: RFC 3261 [4]			SUP reference:				
			912.5 [[*]	1], clauses 7.1, 7.3.1; 7.4				
TSS reference	ISUP-SIP/Basic call/Sending of the ACM message							
SIP selection	PICS 1/3 AND NOT PICS 4/15							
criteria								
ISUP selection	PICS 4/2 AND NOT PICS 4/9							
criteria								
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number, the continuity check is performed (ISUP) or COT is expected (BICC) indication receipt of a 180 Ringing message: • Sends the ACM message with: • the CPS indicator set to the value in the encapsulated ACM; • the Called party's category indicator set to the value in the encapsulated ACM; • the interworking indicator set to the value in the encapsulated ACM; • the ISUP indicator set to the value in the encapsulated ACM; • the ISDN access indicator set to the value in the encapsulated ACM.							
SIP parameter values								
ISUP parameter	IAM; Called party number: complete number							
values	ACM, Backward call indicator is set to the value in the encapsulated ACM							
Comments	ISUP/BICC	SUT		SIP-I				
	IAM →							
	-	COT → INVITE(IAM)						
	ACM ← 180 Ringing(ACM) ANM ← 200 OK INVITE(ANM)							
		→ ACK						
		Conversation						
	REL →		→	BYE(REL)				
	RLC ←		+	200 OK BYE(RLC)				

5.2.2.4 Sending of the CPG message

TP304001	SIP reference: RFC 32	61 [4]	ISUP reference: Q.1912.5 [1], clauses 7.1, 7.3.1					
TSS reference	ISUP-SIP/Basic call/Sending of the CPG message							
SIP selection	PICS 3/1							
criteria								
ISUP selection	PICS 3/8							
criteria								
Test purpose	Ensure that the SUT, having sent a ACM message with called party status "no indication" on receipt of a 180 Ringing with a encapsulated ISUP message: • sends the CPG message with the event indicator set to "Alerting".							
SIP parameter								
values								
ISUP parameter	ACM: BCi called party status indicator = no indication							
values	CPG: Event Indicator = ALERT	ING, BCi as re	ceived from the e	encapsulated ACM				
Comments	ISUP/BICC		SUT	SIP-I				
	IAM	→						
	SAM	→						
	SAM	→	→	INVITE(IAM)				
		T _{OIW}	₂ expiry					
	ACM(no indication)	+						
	CPG(Alerting BCi) ← 180 Ringing(ACM)							
	ANM	+	+	200 OK INVITE(ANM)				
			→	ACK				
			ersation					
	REL	→	→	BYE(REL)				
	RLC ← ← 200 OK BYE(

TP304002	SIP reference: RFC 326	1 [4]		SUP reference:				
			Q.1912.	5 [1], clauses 7.1, 7.3.1				
TSS reference	ISUP-SIP/Basic call/Sending of the CPG message							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT, having ser receipt of a 183 Session progres sends the CPG message with the series of the seri	s message v	vith a encapsulate	ed ISUP message:				
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				
		Con	versation					
	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	200 OK INVITE;							
values								
ISUP parameter	ANM;	ANM;						
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)				

5.2.2.6 Sending of the CON message

TP306001	SIP reference: RFC 3261 [4]	0.10	ISUP reference: 012.5 [1], clauses 7.5, 7.5.1						
TSS reference	ISUP-SIP/Basic call/Sending of the Conr	ISUP-SIP/Basic call/Sending of the Connect Message (CON)							
SIP selection criteria		ge (e-							
ISUP selection criteria									
Test purpose	Ensure that the SUT, having not sent the ACM message, on receipt of a 200 OK INVITE for this call, it shall stop timer TOIW2 (if running): • send CON as determined by BICC/ISUP procedures. Stop any existing awaiting answer indication (e.g. ringing tone) BCI encoded as received in the encapsulated CON.								
SIP parameter values	200 OK INVITE;								
ISUP parameter values	CON; interworking indicator: INT_IND_VAL (PIXIT) ISUP indicator: ISUP_IND_ID (PIXIT) ISDN access indicator ISDN_ACC_IND_VAL (PIXIT) CPS indicator: no indication								
Comments	ISUP/BICC	SUT	SIP-I						
	IAM →	•	→ INVITE(IAM)						
	CON +	CON ← 200 OK INVITE(CON)							
	→ ACK								
	C	onversation							
	REL →	•	→ BYE(REL)						
	RLC +	•	€ 200 OK BYE(RLC)						

5.2.2.7 Receipt of the Release message (REL)

TP307001	SIP reference: RFC 3	261 [4]		ISUP reference: Q.1912.5 [1], clause 7.7.1, 1)					
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 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					
	IAM	→							
	REL	→							
	RLC	+							

TP307002	SIP reference: RFC 326	-	SUP reference: 2.5 [1], clause 7.7.1 2)					
TSS reference	ISUP-SIP/Basic call/Receipt of the Release message (REL)							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message 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 3261 [4]			SUP reference:	
				5 [1], clause 7.7.1 2) 3)	
TSS reference	ISUP-SIP/Basic call/Receipt of the Re	lease mes	ssage (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	IOUD/DIOO	OUT	. 1	Tour I	
Comments	ISUP/BICC	SUT		SIP-I	
	IAM →		→	INVITE(IAM)	
	251		-	100 Trying	
	REL →			OANOEL	
	RLC ←		→	CANCEL	
			-	200 OK INVITE(CON)	
			→	ACK	
				D) (E (DEL)	
			→	BYE(REL)	
			+	200 OK BYE(RLC)	

TP307004	SIP reference: RFC 32	261 [4]	ISUP reference: Q.1912.5 [1], clause 7.7.1 2) 3)				
TSS reference	ISUP-SIP/Basic call/Receipt of	the Release m		3 [1], clause 1.1.1 2/3/			
SIP selection criteria			5 ()				
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 IAM	SI →	TT →	SIP-I INVITE(IAM)			
	REL →						
			+	100 Trying			
			→	CANCEL			
			←	200 OK CANCEL			
			+	487 Request terminated			
			→	ACK			

TP307005	SIP reference: RFC 3261 [4]			ISUP reference:					
T00 (LOUIS CIP/S : II/S : :					2.5 [1], clause 7.7.1 4)			
TSS reference	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		SU	Т		SIP-I			
	IAM	→			→	INVITE(IAM)			
	ACM	+			(180 Ringing(ACM)			
	ANM ← 200 OK INVITE(ANM)								
					→	ACK			
	REL	1			→	BYE(REL)			
	RLC	+			+	200 OK BYE(RLC)			

TP307006	SIP reference: RFC 326	1 [4]	_	SUP reference:					
			Q.1912	2.5 [1], clause 7.7.1 3)					
TSS reference	ISUP-SIP/Basic call/Receipt of the	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	SU	Т	SIP-I					
	IAM =	>	→	INVITE(IAM)					
	ACM	-	+	SIP_MESSAGE_VA					
	REL -	•							
	RLC •	-							
			→	CANCEL					
			+	200 OK CANCEL					
			+	487 Request terminated					
			→	ACK					

Table 8

	Values for test purpose TP307106					
VA SIP MESSAGE_VA						
VA_1 180 Ringing(ACM)						
VA_2 181 Call Is Being Forwarded(ACM)						
VA_3	VA_3 182 Queued(ACM)					
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 t	he Re	lease mess	age (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							
values							
ISUP	REL; Cause value "Normal call c	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 3	261 [4]]	C		SUP reference: 2.5 [1], clause 7.7.6			
TSS reference	ISUP-SIP/Basic call/Sending	ISUP-SIP/Basic call/Sending of the Release message (REL)							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message. On receipt of a Failure message (4xx, 5xx, 6xx) defined as SIP_Failure_VA: sends a REL message constructed from the encapsulated REL.								
SIP parameter values				•					
ISUP parameter values	REL; cause value: CV_ISUP								
Comments	ISUP/BICC		SU	Τ		SIP-I			
	IAM	→			→	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/Sendir	ISUP-SIP/Basic call/Sending of the Release message (REL)/							
SIP selection criteria	NOT PICS 4/10								
ISUP selection criteria									
Test purpose	Failure message 487 Requno action is taken on the	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	Γ		SIP-I			
	IAM	→		-	→	INVITE(IAM)			
				•	-	100 Trying			
	REL	→		-	→	CANCEL			
	RLC								
	← 487 Request Termin → ACK								

TP308004	SIP reference: RFC 3	261 [4	ij	(SUP reference: 2.5 [1], clause 7.7.6	
TSS reference	ISUP-SIP/Basic call/Sending of	of the I	Release me	essage (F	REL)/		
SIP selection criteria							
ISUP selection criteria							
Test purpose	message defined as SIP MES message (4xx, 5xx, 6xx) define	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		SUT	Г		SIP-I	
	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	180 Ringing(ACM)					
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	261 [4]		(SUP reference: 2.5 [1], clause 7.7.6		
TSS reference	ISUP-SIP/Basic call/Sending of	of the R	elease m	essage (F	REL)			
SIP selection criteria	NOT PICS 4/10			<u> </u>	•			
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		SU	Т		SIP-I		
	IAM → INVITE(IAM)							
	ACM	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 3	261 [4]		C	_	SUP reference: 2.5 [1], clause 7.7.6	
TSS reference	ISUP-SIP/Basic call/Sending	of the Re	elease m	essage (R	EL)/		
SIP selection criteria	NOT PICS 4/21						
ISUP selection criteria							
Test purpose	a response message (3xx) de	Ensure that the SUT after receiving the IAM sends out an INVITE message. On receipt of a response message (3xx) defined as SIP_Response_VA, the SUT: • sends a REL message with the Cause value CV_ ISUP.					
SIP parameter values							
ISUP parameter values	REL; cause value: CV_ISUP						
Comments	ISUP/BICC		SU	Т		SIP-I	
	IAM	→			→	INVITE(IAM)	
					(100 Trying	
	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	s Value of parameter field	component of SIP Reason header field	Component value
-	-	Protocol	"Q.850"
Cause Value	"XX" (see note 1)	Protocol-cause	"cause= XX" (see note 1)
-	-	Reason-text	Should be filled with the definition text as stated in Q.850 (see note 2)

NOTE 1: "XX" is the Cause Value as defined in 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 32	61 [4]		ISUP reference:		
			Q.1912.5 [1],	clauses 7.7.1, 1), 7.7.4, 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 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	SU	T	SIP-I		
	IAM	→				
	RSC	→				
	RLC	(

TP309002	SIP reference: RFC 32	261 [4]		SUP reference:		
], clauses 7.7.1, 7.7.4, 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	message (Co	bb) with the indi	cation naroware failure		
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT after rece					
	sending an INVITE message of		message befor	e a SIP MESSAGE_VA		
	response message has been re					
	 the SUT shall hold the RS 					
	 the SUT shall send a CAN 	CEL request. ⁻	The RSC is not	encapsulated.		
SIP parameter						
values						
ISUP parameter values						
Comments	ISUP/BICC	SI	JT	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:		
], clauses 7.7.1, 7.7.4, 7.7.5		
TSS reference	ISUP-SIP/Basic call/Receipt of Res (GRS) or Circuit group blocking me 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 ca	ause 31				
ISUP parameter values						
Comments	ISUP/BICC	SU	Т	SIP-I		
	IAM →		→	INVITE(IAM)		
	RSC →					
	RLC ←					
			+	200 OK INVITE(CON)		
			→	ACK		
			→	BYE(REL#31)		
			+	200 OK BYE(RLC)		

TP309005	SIP reference: RFC 3261 [4]				ISUP reference:			
				Q.1912.5 [1], clauses 7.7.1, 7.7.4, 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	oriented						
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT after rec							
	sending a INVITE message w							
					e message has been received:			
	 the SUT shall send a BYI 	E reque	st The RS	SC is not enca	apsulated.			
SIP parameter	BYE: A REL is encapsulated	with cau	ıse 31					
values								
ISUP parameter								
values								
Comments	ISUP/BICC		SU	T	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.1912.5 [1], clauses 7.7.1, 7.7.4, 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 (CGI	B) with the ind	ication 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 an 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		SU	Т	SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	SIP_MESSAGE_VA(ACM)		
	RSC →						
	RLC +						
					0.411051		
				→	CANCEL		
				+	200 OK CANCEL		
				+	487 Request terminated		
				→	ACK		

Table 16

	Values for test purpose; TP309006					
VA	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 3	3261 [4]			ISUP reference:		
				Q.1912.	5 [1], clauses 7.7.1, 1), 7.7.4, 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 rec	eiving the	e IAM bu	ıt before	an INVITE has been sent on		
	receipt of GRS message:	•					
		IP side of	ther thai	n to term	inate local procedures if any are in		
	progress.						
SIP parameter							
values							
ISUP parameter							
values							
Comments	ISUP/BICC		SU	Т	SIP-I		
	IAM	→					
	GRS	→					
	GRA	+					

TP309008	SIP reference: RFC 3	3261 [4]		=	SUP reference: , clauses 7.7.1, 7.7.4, 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	sending a INVITE message of response message has been the SUT shall hold the GF	the Cortain lets are Cities incodes and a cortain a contract of the contract o				
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC		SU	Т	SIP-I	
	IAM	→		→	INVITE(IAM)	
	GRS	→				
	GRA	←				
				+	SIP_MESSAGE_VA	
	CASE A					
				→	CANCEL	
				+	200 OK CANCEL	
				+	487 Request terminated	
				→	ACK	
	CASE B	•				
				→	BYE(REL#31)	
				+	200 OK BYE(RLC)	
				+	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 3	261 [4]		0.4040.5.14	ISUP reference:		
	10115 015 (5 1 11/5 1 1				, clauses 7.7.1 3), 7.7.4, 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 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		SU	Т	SIP-I		
	IAM	→		→	INVITE(IAM)		
				+	100 Trying		
	GRS	→					
	GRA	+		→	CANCEL		
				+	200 OK INVITE(CON)		
				→	ACK		
		İ		+	200 OK CANCEL		
				→	BYE(REL#31)		
			-	+	200 OK BYE(RLC)		

			ISUP reference: Q.1912.5 [1], clauses 7.7.1, 7.7.4, 7.7.5			
(GRS) or Circuit group blocking priented	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					
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 GRS message after a 200 OK response message has been received: • the SUT shall send a RYE request The GRS is not encapsulated.						
SUP/BICC AM ACM ANM GRS	+ + +	SU	→ ← ← →	SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM) ACK BYE(REL#31) 200 OK BYE(RLC)		
	Ensure that the SUT after receivending a INVITE message with nessage on receipt GRS mestathe SUT shall send a BYE SUP/BICC AM	Ensure that the SUT after receiving the sending a INVITE message with the connessage on receipt GRS message after the SUT shall send a BYE request SUP/BICC AM ACM ACM COM COM COM COM CO	Ensure that the SUT after receiving the IAM wite sending a INVITE message with the complete of the SUT shall send a BYE request The GRAM SUT SHALL SUT SHALL SENDING SUP/BICC SUT SUP/BICC SUT SUT SUT SUT SUT SUT SUT SUT SUT SUT	Ensure that the SUT after receiving the IAM with the complete sending a INVITE message with the complete called party numbers age on receipt GRS message after a 200 OK response the SUT shall send a BYE request The GRS is not encapted. SUP/BICC SUP/BICC AM ACM CM CM CM CM CM CM CM		

TP309012	SIP reference: RFC 3	261 [4]		SUP reference:		
				Q.1912.5 [1]	, clauses 7.7.1, 7.7.4, 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						
	loriented						
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		SU	Т	SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	SIP_MESSAGE_VA(ACM)		
	GRS →						
	GRA ←						
				→	CANCEL		
				+	200 OK CANCEL		
				←	487 Request terminated		
				→	ACK		

Table 18

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

TP309013	SIP reference: RFC 3261 [4]			ISUP reference:		
], clauses 7.7.1, 7.7.4, 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					
SIP selection	oriented					
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT afte	r receiving m	nore than	one IAM's ser	iding an INVITE message for	
		receipt of a 0	GRS mess	sage were the	Range Parameter value is	
	bigger than "1":					
	the SUT shall send a	a BYE reque	sts for ea	ch call associa	tion The GRS is not	
SIP parameter	encapsulated. BYE1 contains the CSeq	-4 INI\/ITE4				
values	BYE2 contains the CSeq	of INVITED				
ISUP parameter	BTEZ COMAINS THE COEC	OFTINVITEZ				
values						
Comments	ISUP/BICC		SU	Τ	SIP-I	
	IAM	→		→	INVITE1(IAM)	
	ACM	-		←	180 Ringing(ACM)	
	ANM	←		+	200 OK INVITE(ANM)	
				→	ACK	
	1004				INDUITEO(IANA)	
	IAM ACM	→ ←		→	INVITE2(IAM) 180 Ringing(ACM)	
	ANM	+			200 OK INVITE(ANM)	
	ANIVI			→	ACK	
	GRS	→			ACK	
	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 3261 [4] ISUP reference: Q.1912.5 [1], clauses 7.7.1, 1					
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 CGBA	→ → ←	JT	SIP-I		

TP309015	SIP reference: RFC 3261 [4]	-	SUP reference: [1], clauses 7.7.1, 7.7.4			
TSS reference	ISUP-SIP/Basic call/Receipt of Reset circuit r (GRS) or Circuit group blocking message (CC 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		JT	SIP-I			
	IAM →	→	INVITE(IAM)			
	CGBA ←					
	€ SIP_MESSAGE_VA					
		→	CANCEL			
		-	200 OK CANCEL			
		→	487 Request terminated ACK			
			AON			

Table 19

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

TP309016	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clauses 7.7.1 3), 7.7.4			
TSS reference	ISUP-SIP/Basic call/Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented					
SIP selection criteria						
ISUP selection criteria						
Test purpose	 Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" before a 200 OK response message has been received: on subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent The CGB is not encapsulated. 					
SIP parameter values						
ISUP parameter values	CGB(hardware failure oriented)					
Comments	ISUP/BICC	SU	T 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	261 [4]	_	SUP reference: [1], clauses 7.7.1, 7.7.4		
TSS reference	ISUP-SIP/Basic call/Receipt o (GRS) or Circuit group blockin 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 oriented	1)				
Comments	ISUP/BICC	SL		SIP-I		
	IAM	→	→	INVITE(IAM)		
	ACM	+	+	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)					
			→	ACK		
	000			D) (E (DEL #0.4)		
	CGB	→	→	BYE(REL#31)		
	CGBA	+	+	200 OK BYE(RLC)		

TP309018	SIP reference: RFC 3261 [4]		ISUP reference:			
		Q.191	12.5 [1], clauses 7.7.1, 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 (Coriented	GB) with the	indication hardware failure			
SIP selection						
criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt 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 oriented)					
Comments	ISUP/BICC	SUT	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	VA SIP MESSAGE_VA					
VA_1	180 Ringing					
VA_2	183 Session Progress					

TP309019	SIP reference: RFC	3261 [4]		ISUP reference:], clauses 7.7.1, 7.7.4, 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 more than one IAM's sending an INVITE message for each call association on receipt of a CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" were the Range and Status Parameter value is bigger than "1": the SUT shall send a BYE requests for each call association The CGB is not encapsulated.						
SIP parameter	BYE1 contains the CSeq of I						
values	BYE2 contains the CSeq of I						
ISUP parameter values	CGB(hardware failure oriente	ed)					
Comments	ISUP/BICC		UT	SIP-I			
	IAM	→	→	INVITE1(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	+	+	200 OK INVITE(ANM)			
			→	ACK			
	1000		_	INDUSTRICATION			
	IAM	→	→	INVITE2(IAM)			
	ACM	-	+	180 Ringing(ACM)			
	ANM	-	-	200 OK INVITE(ANM)			
		1	→	ACK			
	CGB	→					
	CGBA	+		D)/E4/DEL #04)			
			→	BYE1(REL#31)			
			-	200 OK BYE(RLC)			
			→	BYE2(REL#31)			
			←	200 OK BYE(RLC)			

5.2.2.10 Receipt of Confusion message

TP310001	SIP refe	rence: RFC 3261 [4]		ISUP reference:		
TSS reference	Q.1912.5 [1], clause A.1.1.3 ISUP-SIP/ISUP Messages for special consideration/Confusion message						
SIP selection	130F-31F/130F	iviessages for spec	iai corisiue	rialli	on/Contusion message		
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number and contains an unknown parameter, sending a INVITE message with the complete called party number and encapsulated IAM as received. Ensure that when the succeeding node discards an unknown parameter and send back a Confusion message if indicated in the parameter compatibility information and the sending of a Confusion message is requested, the CFN message encapsulated in a 183 Session Progress is sent. Ensure ISUP message is transported through the SIP network encapsulated in the 183 Session Progress.						
SIP parameter values	183 Session Pro	ogress with encaps	ulated CFN	1			
ISUP parameter values	CFN						
Comments	ISUP				SIP-I		
	IAM	→		1	INVITE(IAM with unknown parameter)		
	CFN	+		₩	183 Session Progress(CFN)		
	ACM	+		₩	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)						
		→ ACK					
		Comn	nunication				
	REL	→		1	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

5.2.2.11 Receipt of "Suspend" or "Resume" message

TP311001	SIP reference: RFC 3261 [4]				ISUP reference: 12.5 [1], clause A.1.1.3		
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Receipt of Suspend message						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message with the complete called party number, on receipt of a Suspend initiated by the network: • ensure that the ISUP message is transported through the SIP network encapsulated in the INFO message; • ensure that the called subscriber can successfully clear back and reanswer the call.						
SIP parameter				<u>,</u>			
values							
ISUP parameter values							
Comments	ISUP/BICC		SU	JT I	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	61 [4]	Q.191	ISUP reference: 2.5 [1], clause A.1.1.3.1		
TSS reference	ISUP-SIP/ISUP Messages for s	pecial conside	ration/Receip	t of a Blocking message		
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the blocking/unblockingsages are not encapsulated			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 c	onsideration/R	Receipt of a Blocking message				
SIP selection criteria							
ISUP selection criteria							
Test purpose	can be correctly initiated.	Ensure that the blocking from both ends; removal of blocking from one end can be correctly initiated. Ensure the BLO messages are 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	pecial conside	ration/Receipt of	of a Blocking message		
SIP selection						
criteria						
ISUP selection criteria						
Test purpose	CGB and CGU sent	•				
	Ensure that the SUT is able to re					
	and on a Circuit group unblockir					
	Ensure the CGB/CGU message	s are not enca	psulated within	SIP messages.		
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP	SL	T S	SIP-I		
	CGB	→				
	CGBA ←					
	CGU	→				
	CGUA	+				

TP312004	SIP reference: RFC 32	61 [4]		SUP reference: 5 [1], clause A.1.1.3.1
TSS reference	ration/Receipt of	f a Blocking message		
SIP selection criteria	-		·	
ISUP selection criteria				
Test purpose	Ensure that the SUT on receipt messages, discards the ISUP in		ch is received er	ncapsulated within SIP
SIP parameter values				
ISUP parameter values				
Comments	ISUP	SU	T ←	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	ages for special co	nsideration	/Receipt	of a Blocking message	
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that a received	I IAM will unblock	a remotely l	olocked c	circuit.	
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP		SUT		SIP-I	
	BLO	→				
	BLA	+				
	IAM	→		→	INVITE(IAM)	
	ACM	+		+	180 Ringing(ACM)	
	ANM	+		+	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 326	1 [4]	Q.1912.5	JP reference: [1], clause A.1.1.3.1 11], clause 1.3.2.4					
TSS reference	TSS reference ISUP-SIP/ISUP Messages for special consideration/Receipt of a user part								
SIP selection criteria									
ISUP selection criteria	PICS 4/22	PICS 4/22							
Test purpose	part available message.	Ensure that on receipt of a user part test message the SUT will respond by sending a user part available message. Ensure that the user part test message is not encapsulated within SIP messages.							
SIP parameter values		-		-					
ISUP parameter values									
Comments	ISUP	SUT	s	IP-I					
	UPT ->								
	UPA +								

TP313002	SIP reference: RFC 3	261 [4]		UP reference: [1], clause A.1.1.3.1				
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Receipt of a user part test messa							
SIP selection criteria	-		·	·				
ISUP selection criteria	PICS 4/22							
Test purpose	Ensure that the SUT is able to	send a user pa	rt test message.					
SIP parameter values								
ISUP parameter values								
Comments	ISUP	SL	JT	SIP-I				
	UPT	-						
	UPA	→						

TP313003	SIP reference: RFC 3261 [4]		UP reference: [1], clause A.1.1.3.1						
TSS reference	ISUP-SIP/ISUP Messages for special consi	deration/Receipt of	a user part test message						
SIP selection criteria									
ISUP selection criteria	PICS 4/22								
Test purpose	T4 Waiting to receive a response to a user part test message. Ensure that the SUT is able to restart the availability test procedure after expiry of timer T4.								
SIP parameter values									
ISUP parameter									
values									
Comments	ISUP	SUT	SIP-I						
	UPT 🔸								
	T4 expiry								
	UPT ←								
	UPA →								

5.2.2.14 Segmentation

TP314001	SIP referenc	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause A.1.1.3.1			
TSS reference	ISUP-SIP/ISUP Mess	sages for speci	al conside	ration/Receip	t of a user part test message			
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that a call cal direction.	n be successful	lly complet	ed if segmen	tation applies in forward			
SIP parameter values	information will be se	INVITE - encapsulated IAM: Optional Forward call indicator absent or set to "no additional information will be sent" No action takes place on the SIP side						
ISUP parameter values	IAM: optional forward message SGM: optional param		additional	information v	vill be sent in a segmentation			
Comments	ISUP		SUT	-	SIP-I			
	IAM	→						
	SGM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Convers	ation				
	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]	Q.19 ²		SUP reference: [1], clauses 7.1.3, B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Calling Party number network provided, transferred in O-MGCF Ensure that the SUT can successfully transmit a call having a calling party number with the screening indicator set to "network provided" and the presentation restricted indicator set to "presentation allowed".							
SIP parameter								
values								
ISUP parameter	IAM;							
values	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B presentation restricted indic	'001'B = '0000	0011'B	allowed, '0	00'B			
Comments	ISUP		SUT			SIP-I		
	IAM	→		-	>	INVITE(IAM)		
	ACM	+		•	-	180 Ringing(ACM)		
	ANM	+		•	-	200 OK INVITE(ANM)		
				-	>	ACK		
			Conversa	tion				
	REL	→		-	>	BYE(REL)		
	RLC	+		•	F	200 OK BYE(RLC)		

TP401002	SIP reference: RFC	3261	[4]	0.46		SUP reference:		
T00 (LOUID OID IOUD/OO/OU ID			Q.18	912.5	[1], clauses 7.1.3, B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection								
criteria								
Test purpose	Calling Party number netwo	rk prov	rided, Callin	g Subaddr	ess t	ransferred in O-MGCF		
	Ensure that the SUT can successfully transmit a call having a calling party number with the screening indicator set to "network provided" 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	'001'B	0011'B					
	Screening indicator = '11'B				10015			
	presentation restricted indic			,				
0	Access transport parameter	includi			orma			
Comments	ISUP	→	SUT		→	SIP-I		
	IAM	_				INVITE(IAM)		
	ACM	←			(180 Ringing(ACM)		
	ANM	+			<u>+</u>	200 OK INVITE(ANM)		
					→	ACK		
			Convers	ation				
	REL	→			→	BYE(REL)		
	RLC	←			←	200 OK BYE(RLC)		

TP401003	SIP reference: RFC	3261	[4]		I	SUP reference:
			•	Q.1	912.5	5 [1], clauses 7.1.3, B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP		'			· ·
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Calling Party Number user	orovide	d transferre	d in O-M	GCF	
						ne calling party number with
	the screening indicator set t				nd pas	sed" and the presentation
	restricted indicator set to "pi	resenta	tion 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')011'B			
	Screening indicator = '01'B					
	presentation restricted indic	cator =			, '00'E	
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)

TP401004	SIP reference: RFC	3261	[4]		SUP reference: 5 [1], clauses 7.1.3, B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP		I		[1], 0.0000 11110, 211			
SIP selection criteria								
ISUP selection criteria								
Test purpose	Calling Party Number user provided and calling subaddress transferred in O-MGCF Ensure that the SUT can successfully transmit a call having a calling party number with the screening indicator set to "user provided, verified and passed" 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 Presentation restricted indic Access transport parameter	'001'B = '0000 ator =	0011'B presentation a	,				
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Conversat	on				
	REL	^		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP401005	SIP reference: RFC	3261	[4]			SUP reference:	
				Q.19	12.5	[1], clauses 7.1.3, 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 suc number with the screening i containing the additional call	ndicate	or set to "net rty number v	twork prov vith the sc	ided' reeni	and a generic number ng indicator set to "user	
	provided, not verified" and the allowed".	ne pres	sentation res	tricted ind	icato	r set to "presentation	
SIP parameter							
values							
ISUP parameter	IAM;						
values	Calling party number para	meter					
	Address signals = PIXIT1	00415					
	Numbering plan indicator = '		204415				
	Nature of address indicator =	= '0000	0011'B				
	Screening indicator = '11'B	-4		ا امینیما ا	OOID		
	Presentation restricted indica Generic number paramete		presentation	allowed,	00 B		
	Address signals = PIXIT2	ı					
	Numbering plan indicator = '	001'B					
	Nature of address indicator =)∩11'B				
	Screening indicator = '00'B	- 0000	01112				
	Presentation restricted indica	ator = ı	presentation	allowed. '	00'B		
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)	

TP401006	SIP reference: RFC 32	261 [4]		SUP reference:					
			Q.1912.	5 [1], clauses 7.1.3, B.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIP								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose		Calling Party Number network provided, additional calling party number user provided not verified and calling subaddress transferred in O-MGCF.							
	with the screening indicator set additional calling party number	Ensure that the SUT can successfully transmit 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" and an access transport parameter containing the calling sub-address.							
SIP parameter		•	<u> </u>	•					
values									
ISUP parameter	IAM;								
values	Calling party number parame	eter							
	Address signals = PIXIT1								
	Numbering plan indicator = '00								
	Nature of address indicator = '0	0000011'B							
	Screening indicator = '11'B								
	Generic number parameter								
	Address signals = PIXIT2								
	Numbering plan indicator = '00								
	Nature of address indicator = '0	0000011'B							
	Screening indicator = '00'B								
	Access transport parameter inc								
Comments	ISUP	SU		SIP-I					
	IAM		→	INVITE(IAM)					
	ACM		+	180 Ringing(ACM)					
	ANM	-	+	200 OK INVITE(ANM)					
			→	ACK					
		Convers							
	REL -		→	BYE(REL)					
	RLC	-	←	200 OK BYE(RLC)					

TP401007	SIP reference: RFC 3261 [4]			ISUP reference:				
				Q.1912.5	5 [1], clauses 6.1.3.6, B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria	PICS 6/8							
Test purpose	Calling party number discarded to due bilateral agreement in the I-MGCF.							
		Ensure that the calling party number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed" (see note).						
SIP parameter					·			
values								
ISUP parameter	IAM;							
values	No calling party number	paramet	er					
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversation	on				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			
	teral agreement prohibits the							
with the	address presentation restrict	ed indica	tor set to "pres	entation re	estricted" is a CLIR test.			

TP401008	SIP reference: RFC	3261	[4]		ISUP reference:			
				Q.1912.5	[1], clauses 6.1.3.6, B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria	PICS 6/7							
Test purpose	Additional Calling party number is discarded to due bilateral agreements in the I-MGCF 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 allowed".							
SIP parameter values								
ISUP parameter values	IAM; No calling party number p	arame	ter					
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			
	eral agreement prohibits the t ss presentation restricted ind				nber in any case. The test with ted" is a CLIR test.			

TP401009	SIP reference: RF	C 3261	[4]		ISUP reference:			
				Q.1912.5	5 [1], clauses 6.1.3.6, B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection								
criteria								
ISUP selection	PICS 6/6							
criteria								
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	→						
			Convers	ation				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP401010	SIP reference: RF	C 3261	[4]	0.4040	ISUP reference:				
				Q.1912.	5 [1], clauses 6.1.3.6, B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Calling party number is se	ent as red	ceived						
SIP parameter	.	Ensure that the calling party number in the sent IAM is generated from the calling party number in the encapsulated IAM.							
values									
ISUP parameter values									
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				

TP401011	SIP reference: RI	FC 3261	[4]		ISUP reference: 5 [1], clauses 6.1.3.6, B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP		•		· · · · · · · · · · · · · · · · · · ·
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Additional calling party nu	ımber is s	ent as received	1	
SIP parameter values ISUP parameter	additional calling party nu	mber in ti	ne encapsulate	d IAM.	
values Comments	SIP-I		SUT		ISUP
Comments	INVITE(IAM)	→	301	→	IAM
	180 Ringing(ACM)	-		,	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			/ Al VIVI
	/ COIX		Conversatio	n	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP401012	SIP reference: RI	FC 3261	[4]		SUP reference:
				Q.1912.5	[1], clauses 6.1.3.6, B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP				
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Additional calling party nu	ımber is d	omitted in the I-	MGCF	
	Ensure that if the calling number in a generic num			nt, then an	additional calling party
SIP parameter				ncapsulate	d IAM, additional calling party
values	number included.			•	, 31
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	→			
			Conversation	on	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP401013	SIP reference: RF0	3261	[4]	Q.1912.5	ISUP reference: [1], clauses 6.1.3.6, B.1, 731 [i.2], clause 3.5					
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria										
ISUP selection criteria	PICS 1/7	PICS 1/7								
Test purpose		Convert the Calling party number into the international format in the I-MGCF								
	setting the nature of address address presentation restric	s indica	ator to "intern	ational numb						
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 indicator	'001'B = '0000	presentation	allowed, '00'E						
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→	L							
		<u> </u>	Conversa							
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	←		←	RLC					

TP401014	SIP reference: RFC 3	3261 [4	ij		ISUP reference: [1], clauses 6.1.3.6, B.1, 3.5/Q.731 [i.2]					
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 convert the additional calling party number in the generic number into an international number, if the numbering plan indicator is "ISDN Telephony", setting the nature of address indicator to "international number" and can pass on the address presentation restricted indicator and the screening indicator transparently.									
SIP parameter	auditor processianos recursos	,	, a		indicator transparently.					
values										
ISUP parameter	IAM									
values	Calling party number param	neter								
Comments	Address signals = PIXIT1 Numbering plan indicator = '0 Nature of address indicator = Screening indicator = '11'B Presentation restricted indicat Generic number parameter Address signals = PIXIT2 Numbering plan indicator = '0 Nature of address indicator = Screening indicator = '00'B Presentation restricted indicat SIP-I	'0000 ² tor =pr 001'B '0000 ²	esentation	allowed, '00'E						
Comments			50							
		→		→	IAM					
	180 Ringing(ACM)	(-	ACM					
	200 OK INVITE(ANM) ACK	←			ANM					
	ACK	7	Convers	ation						
	BYE(REL)	→	COLIVEIS	<u>ation</u> →	REL					
	200 OK BYE(RLC)	-		+	RLC					
	200 ON BTE(NLO)	~			INLO					

TP401015	SIP reference: RI	SIP reference: RFC 3261 [4]			ISUP reference: [1], clauses 6.1.3.6, B.1, 3.5/Q.731 [i.2]				
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	mplementa	tion.					

TP401016	SIP reference: RFC 320	61 [4]	_	SUP reference: [1], clauses 6.1.3.6, B.1, 3.5/Q.731 [i.2]						
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria										
ISUP selection criteria	PICS 1/8									
Test purpose	Converting the calling party number to national format, if necessary in the O-MGCF Ensure that the country code in the address signals of the calling party number is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number". The address presentation restricted indicator shall be transferred transparently.									
SIP parameter	INVITE: encapsulated IAM									
ISUP parameter values	Calling party number p Address signals = PIXIT Numbering plan indicato Nature of address indica Screening indicator = '11 Presentation restricted in IAM; Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '001 Nature of address indicator = '1001 Screening indicator = '11'B	1 r = '001'B ttor = '000001 'B ndicator = pre	. –	ed, '00'B						
	Presentation restricted indicator	r = presentati	on allowed, '00'E							
Comments	SIP-I	SI	JT	ISUP						
	IAM →		→	INVITE(IAM)						
	ACM ←		+	180 Ringing(ACM)						
	ANM	•	←	200 OK INVITE(ANM)						
			→	ACK						
		Conve								
	REL →		→	BYE(REL)						
	RLC +	•	←	200 OK BYE(RLC)						

TP401017	SIP reference: RFC	SIP reference: RFC 3261 [4] ISUP reference:								
				Q.19		[1], clauses 6.1.3.6, B.1, 3.5/Q.731 [i.2]				
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection										
criteria										
ISUP selection	PICS 1/8									
criteria										
Test purpose	Converting the additional ca MGCF	Converting the additional calling party number to national format, if necessary in the O-MGCF								
	"additional calling party num removed if it is the network's	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 par		r							
	Address signals = Pl									
	Numbering plan indic									
	Nature of address inc		= '0000011	'B						
	Screening indicator =					-LIOOID				
IOUD	Presentation restricte	<u>ea inaic</u>	ator = pres	entation a	lllowe	d, 100'B				
ISUP parameter values	IAM;									
values	Calling party number para Address signals = PIXIT1	meter								
	Numbering plan indicator = '	'001'R								
	Nature of address indicator		100'B							
	Screening indicator = '11'B	_ 0000	7100 B							
	Presentation restricted indic	ator =	oresentatio	n allowed.	'00'B					
	Generic number paramete									
	Address signals = PIXIT2									
	Numbering plan indicator = '									
	Nature of address indicator	= '0000')100'B							
	Screening indicator = '00'B									
_	Presentation restricted indic	ator =			'00'B					
Comments	SIP-I		SU	Γ		ISUP				
	IAM	→			<u>→</u>	INVITE(IAM)				
	ACM	+			<u>+</u>	180 Ringing(ACM)				
	ANM	+			<u> </u>	200 OK INVITE(ANM)				
		<u> </u>	0	-1!	→	ACK				
	DEL		Convers	ation		DVE(DEL)				
	REL	→			<u>→</u>	BYE(REL)				
	RLC	+			+	200 OK BYE(RLC)				

TP401018	SIP reference: RFC 3261 [4]				ISUP reference: [1], clauses 6.1.3.6, B.1,
TSS reference	ISUP-SIP-ISUP/SS/CLIP				3.5/Q.731 [i.2]
SIP selection criteria	1001 -011 -1001 /00/0211				
ISUP selection criteria	PICS 1/7				
Test purpose	Adding a prefix to an inter	national	calling party	number in the	e I-MGCF
	Ensure that a prefix is add indicator is set to "unknow			rty number a	nd the nature of address
SIP parameter values					
ISUP parameter values					
Comments	SIP-I		SUT	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
NOTE: The codir	ng "unknown" is a national c	ption (@	<u></u>		

TP401019	SIP reference: RF	C 3261	[4]	_	SUP reference: [1], clauses 6.1.3.6, B.1, 3.5/Q.731 [i.2]			
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 values								
ISUP parameter	IAM;							
values	Calling party number parameter Address signals = PIXIT1 Numbering plan indicator = '*'B Nature of address indicator = '*'B Screening indicator = '11'B Presentation restricted indicator =address not available, '10'B							
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			
NOTE: The codi	ng "address not available" is	a natior	nal option (@).					

TP401020	SIP reference: RFC	3261	[4]	ISUP reference:				
				Q.1912.	5 [1], clauses 7.1.3, B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria								
Test purpose SIP parameter	O-MGCF: Calling party number and Additional calling party number not received Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter and the Generic Number are not applicable. Sends an INVITE message without the "P-Asserted-Identity header field", the "From header field" set to "anonymous@anonymous.invalid". No Privacy header field included. INVITE: No P-Asserted Identity, From Header: anonymous@anonymous.invalid							
values								
ISUP parameter values	IAM; no Calling party number and no Additional calling party number present							
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)			

TP401021	SIP reference: RFC	3261	[4]		ISUP reference:			
11 401021	on reference. Ki o	3201	נייו	O 191	2.5 [1], clauses 7.1.3, B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP			Q.131	2.5 [1], Clauses 7.1.5, B.1			
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	O-MGCF: Setting of From header							
SIP parameter	Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter is not applicable and the Generic Number is applicable whereby the address presentation restriction parameter is set to "presentation allowed" and the Nature of Address Indicator is set to NoAS_VALUE. Sends an INVITE message without the "P-Asserted-Identity header field", a "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 no "Privacy Header field". INVITE: no P-Asserted-Identity, no Privacy header, From header contains the value of the							
values	additional calling party number							
ISUP parameter	IAM; no Calling party number present, Additional calling party number present							
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)			

TP401022	SIP reference: RFC 3	3261 [4]		ISUP reference:							
T00 (10110 010 10110/00/0110		Q.1912.	5 [1], clauses 7.1.3, B.1							
TSS reference	ISUP-SIP-ISUP/SS/CLIP	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria											
ISUP selection											
criteria											
Test purpose	O-MGCF: Setting of P-Assert	ted header									
	Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation allowed and the Generic Number is not applicable Sends an INVITE message with: • the "P-Asserted-Identity header field" where the user portion of the addr-spec is set to value of the calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN; • a "From header field" where the "addr-spec" is set to where the user portion of the addr-spec is set to value of the additional calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN; • without "Privacy Header field" or "id" is not included.										
SIP parameter	INVITE: P-Asserted-Identity d	derived from the	calling party nu	mber, Privacy=id, From							
values	header derived from the addit										
ISUP parameter values	IAM; Calling party number is p	present and no	Additional callin	g party number is present							
Comments	ISUP	SU	JT	SIP-I							
	IAM	→	→	INVITE(IAM)							
	ACM	+	+	180 Ringing(ACM)							
	ANM	+	+	200 OK INVITE(ANM)							
	→ ACK										
		Conver	sation								
		→	→	BYE(REL)							
	RLC	+	←	200 OK BYE(RLC)							

TP401023	SIP reference: RFC	3261	[4]		_	SUP reference:				
				Q.1	912.5	5 [1], clauses 7.1.3, B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria										
ISUP selection criteria										
Test purpose	O-MGCF: Setting of P-Asserted 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 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 • without "Privacy Header field" or "id" is not included.									
SIP parameter	INVITE: P-Asserted-Identity									
values	From header derived from the									
ISUP parameter values	IAM; Calling party number a	ınd Add	ditional callir	ng party r	iumbe	er are present				
Comments	ISUP		SUT			SIP-I				
	IAM	→			→	INVITE(IAM)				
	ACM	+			+	180 Ringing(ACM)				
	ANM									
					→	ACK				
			Convers	ation						
	REL	→			→	BYE(REL)				
	RLC	+			+	200 OK BYE(RLC)				

	Values for test purpose TP401021, TP401	022, 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]	0.1	-	SUP reference:			
TSS reference	Q.1912.5 [1], clauses 6.1.3.6, B.1								
SIP selection	IOUI -OII -IOUI /OO/OLIF								
criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Calling party derived from the P-Asserted-Identity international number								
	Ensure when no calling party number is included in the encapsulated IAM or the calling party number in the in the encapsulated IAM is not identical to the P-Asserted-Identity, no Privacy value "id" received. Send an IAM the calling party number is derived from SIP P-Asserted-Identity. The Address Presentation Restricted Indicator is set to Presentation allowed.								
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he forma	t "+"C	C+NDC+SN, Privacy value			
values	"id" is not present	•				-			
ISUP parameter	IAM message with the Calli	ng par	ty number	paramet	er cod	ded			
values	Address signals = nu Screening indicator = Number Incomplete I Numbering plan indic Address Presentation NoAS: "international	enetwo Indicato Cator = In Restr	ork provided or = PIXIT ISDN numb icted Indica	l pering pla	เท	·			
Comments	SIP-I		SU	Γ		ISUP			
	INVITE(IAM)	→			→	IAM			
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	9 6\ /							
	ACK	→							
			Convers	ation					
	BYE(REL)	→			→	REL			
	200 OK BYE(RLC)	←			+	RLC			

TP401025	SIP reference: RFC	3261	[4]	Q.19 ²	-	SUP reference: [1], clauses 6.1.3.6, B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria										
ISUP selection criteria	NOT PICS 1/7									
Test purpose	Calling party derived from the P-Asserted-Identity national (significant) number									
	Ensure when no calling part party number in the in the er Privacy value "id" received. Send an IAM the calling part Address Presentation Restricts	ncapsu ty num	lated IAM is ber is derive	s not identioned from SIF	cal to	o the P-Asserted-Identity, no Asserted-Identity. The				
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he format "	'+"C	C+NDC+SN, Privacy value				
values	"id" is not present					-				
ISUP parameter	IAM message with the Calli	ng par	ty number	paramete	r cod	ded				
values	Address signals = nu Screening indicator = Number Incomplete I Numbering plan indic Address Presentation NoAS: "national (sign	enetwo ndicato cator = n Restr	ork provided or = PIXIT ISDN numb icted Indica	l pering plan		·				
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				

TP401026	SIP reference: RFC	3261 [[4]			reference:				
				Q.1912	2.5 [1], c	clauses 6.1.3.6, B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection										
criteria										
ISUP selection	PICS 1/7									
criteria										
Test purpose	Additional calling party num	ber der	ived from th	ne From hea	der inte	rnational number				
	Ensure when no additional of									
	additional calling party number			capsulated I	AM is n	ot identical to the From				
	header field, no Privacy valu									
	Send an IAM the additional									
	Address Presentation Restr									
SIP parameter	INVITE: P-Asserted identity	user po	ortion is in t	he format "+	"CC+NI	DC+SN, Privacy value				
values	"id" is not present									
ISUP parameter	IAM message with the Addi					ter coded				
values	Address signals = nu				eader					
	Screening indicator =			ot verified						
	Number Incomplete									
	Numbering plan indic					U a constant				
	Address Presentation			tor = Preser	itation a	llowed				
Comments	NoAS: "international	numbe	SU1	- 1	ISU	B				
Comments	INVITE(IAM)	→	301	-						
		-								
	180 Ringing(ACM)	+								
	200 OK INVITE(ANM)	<u> </u>			AINI	/I				
	ACK	7	Convers	otion						
	DVE(DEL)		Convers		DE:					
	BYE(REL)	→		-						
	200 OK BYE(RLC)	+		•	RLC	,				

TP401027	SIP reference: RFC	3261	[4]	0.4	-	SUP reference:				
T00 (Q.1912.5 [1], clauses 6.1.3.6, B.1									
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria										
ISUP selection criteria	NOT PICS 1/7									
Test purpose	Additional calling party number derived from the From header national (significant) number									
	Ensure when no additional of	calling	party numbe	er is inclu	ded in	the encapsulated IAM or the				
				capsulate	ed IAN	I is not identical to the From				
	header field, no Privacy valu									
						om the 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					der				
	Screening indicator =			ot verified	ł					
	Number Incomplete I									
	Numbering plan indic									
	Address Presentation NoAS: "national (sign			tor = Pre	sentat	ion allowed				
Comments	SIP-I		SU	T		ISUP				
	INVITE(IAM)	→			→	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)									
	ACK									
			Convers	ation						
	BYE(REL)	→		-	→	REL				
	200 OK BYE(RLC)	+			+	RLC				

5.3.2 Calling Line Identification Restriction (CLIR)

TP402001	SIP reference: RFC 3	3261 [4]		1912.	SUP reference: 5 [1], clauses 7.1.3, 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	provided	l presentation re	stricte	d is passed.
	Ensure that the SUT can succeed the screening indicator set to indicator set to "presentation"	"network	provided" and the		
SIP parameter values					
ISUP parameter	IAM;				
values	Calling party number param Screening indicator = '11'B Address presentation restricte Generic number parameter	ed param			
	Access transport parameter			addres	ss information
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	←		+	180 Ringing(ACM)
	ANM	(+	200 OK INVITE(ANM)
				→	ACK
			onversation		
		→		→	BYE(REL)
	RLC	←		+	200 OK BYE(RLC)

TP402002	SIP reference: RFC	3261	[4]		912.5	SUP reference: [1], clauses 7.1.3, 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	screening indicator set to "n	ss tran etwork	sparently a provided", t	call havir he addre	ng a c a ss pre	calling sub-address alling party number with the esentation restricted indicator ameter containing the calling
SIP parameter values						
ISUP parameter	IAM;					
values	Calling party number para	meter				
	Screening indicator = '11'B					
	Address presentation restric			1'B		
	Generic number paramete					
	Access transport paramet	er inclu			ormati	
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)

TP402003	SIP reference: RFC	3261		.1912.5	SUP reference: 5 [1], clauses 7.1.3, B.1, [i.2], clause 4.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/CLIR			Q.731	[1.2], Clause 4.5.2.1.1
SIP selection	1801 -811 -1801 780/82111				
criteria					
ISUP selection criteria					
Test purpose	Restricted calling party nu Ensure that the SUT can passcreening indicator set to "us presentation restricted indica	ss tran ser pro	sparently a call hav	ing the	calling party number with the land the address
SIP parameter					-
values					
ISUP parameter	IAM;				
values	Calling party number para	meter			
	Address signals = PIXIT1				
	Numbering plan indicator = '	001'B			
	Nature of address indicator =	= '0000	011'B		
	Screening indicator = '01'B				
	Address presentation restric	ted pa	rameter = '01'B		
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)

TP402004	SIP reference: RFC	3261	[4]	Q.1912.	ISUP reference: 5 [1], clauses 7.1.3, B.1, I [i.2], clause 4.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/CLIR		•		
SIP selection					
criteria					
ISUP selection criteria					
Test purpose		iss tran iser pro resenta	sparently a ca vided, verified tion restricted	all having a of	calling party number with the d", the address presentation
SIP parameter	, , , , , , , , , , , , , , , , , , ,				
values					
ISUP parameter	IAM;				
values	Calling party number para Address signals = PIXIT1				
	Numbering plan indicator =				
	Nature of address indicator	= '0000'	0011'B		
	Screening indicator = '01'B			_	
	Address presentation restrict				
Comments	Access transport paramet	er inci	subadar SUT	ess informa	
Comments	IAM	→	301	→	SIP-I
	ACM	7		+	INVITE(IAM)
	ANM	-		+	180 Ringing(ACM) 200 OK INVITE(ANM)
	AINIVI				ACK
			Conversati		AON
	REL	→	Johnsonsati	→	BYE(REL)
	RLC	+			200 OK BYE(RLC)
	INLO				ZOU ON DIL(NLC)

TP402005	SIP reference: RFC	3261	[4]		I:	SUP reference:					
	Q.1912.5 [1], clauses 7.1.3, B.1,										
					2.731	[i.2], clause 4.5.2.1.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIR	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	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B Address presentation restric Generic number paramete Address signals = PIXIT2 Numbering plan indicator = Nature of address indicator Screening indicator = '00'B Address presentation restric ISUP	'001'B = '0000 cted pa er '001'B = '0000	rameter = '0 0011'B	1'B		SIP-I					
Comments	IAM	→	301		→	INVITE(IAM)					
	ACM	′				180 Ringing(ACM)					
	ANM	+			+	200 OK INVITE(ANM)					
	/ 11 VIVI	_			`	ACK					
			Conversa	ntion		, non					
	REL	→	30.110130		→	BYE(REL)					
	RLC	′			÷	200 OK BYE(RLC)					
	INLO	•	1		_	200 ON DIL(NLO)					

TP402006	SIP reference: RFC	3261	[4]		SUP reference: [1], clauses 7.1.3, 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	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 Address presentation restrict Access transport paramete	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 Screening indicator = '00'B Address presentation restricted parameter = '01'B										
Comments	ISUP		SUT			SIP-I						
	IAM	<u>→</u>			<u>→</u>	INVITE(IAM)						
	ACM	+			(180 Ringing(ACM)						
	ANM	+			+	200 OK INVITE(ANM)						
			<u> </u>		→	ACK						
			Conversa	ition								
	REL	→			→	BYE(REL)						
	RLC	+			-	200 OK BYE(RLC)						

TP402007	SIP reference: RF	C 3261	[4]		ISUP reference:								
				Q.1912.	5 [1], clauses 6.1.3.6, B.1,								
					1 [i.2], clause 4.5.2.1.1								
TSS reference	ISUP-SIP-ISUP/SS/CLIR												
SIP selection													
criteria													
ISUP selection	PICS 6/4												
criteria													
Test purpose	Discarding the calling pa	arty nun	nber if the p	resentation	is restricted								
	Ensure that the calling pa	arty num	ber is disca	rded in case	of bilateral agreements, if the								
	address presentation restr												
SIP parameter	·			•									
values													
ISUP parameter	IAM;												
values	No Calling party number	r parame	eter										
Comments	SIP-I		SU	Γ	ISUP								
	INVITE(IAM)	→		→	IAM								
	180 Ringing(ACM)	+		+	ACM								
	200 OK INVITE(ANM)	+		+	ANM								
	ACK	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, 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	Ensure that the additional	Discarding the additional calling party number if the presentation is restricted Ensure that the additional calling party number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to								
SIP parameter values										
ISUP parameter	IAM;									
values	No Calling party number		eter							
	No Generic number para	meter								
Comments	SIP-I		SUT	•	ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	←		←	ACM					
	200 OK INVITE(ANM)	200 OK INVITE(ANM) ← ANM								
	ACK	ACK →								
			Conversa	ation						
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP402009	SIP reference: RI	FC 3261 [-	Q.1912.5	ISUP reference: [1], clauses 6.1.3.6, 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 null Ensure that the calling pain the ISUP IAM.				t in the IAM sulated IAM is unchanged 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	→			
			Conversation	1	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP402010	SIP reference: RF	C 3261	[4]		ISUP reference: Q.1912.5 [1], clauses 6.1.3.6, 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	I-MGCF: Additional calling party number received in the INVITE is sent in the IAM Ensure that the additional calling party number contained in the encapsulated IAM is unchanged sent in the ISUP IAM.								
SIP parameter	unenanged dent in the rec	J. 17 (1VI.							
values									
ISUP parameter values									
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				

TP402011	SIP reference: RFC 3	3261 [4]	-	SUP reference: 5 [1], clauses 7.1.3, B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIR								
SIP selection									
criteria									
ISUP selection criteria									
Test purpose	Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is not applicable Sends an INVITE message with: • the "P-Asserted-Identity header field" where the user portion of the addr-spec is set to value of the additional calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN; • a "From header field" set to "anonymous@anonymous.invalid"; and • with "Privacy Header field" set to "id".								
SIP parameter values	INVITE: P-Asserted-Identity,	From	Header: and	onymous@and	onymous.invalid, Privacy "id"				
ISUP parameter	IAM: Calling party number. No	o addi	tional calling	party numbe	r				
values			·	, ,					
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)				

TP402012	SIP reference: RFC 3	3261 [4]		_	SUP reference: 5 [1], clauses 7.1.3, B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIR			.1312.	5 [1], Clauses 7.1.5, B.1		
SIP selection criteria							
ISUP selection criteria							
Test purpose	 Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is 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 heade	er field, Privad	cy "id"			
ISUP parameter values	IAM: Calling party number. ac	dditional cal	ling party nun	nber			
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	(+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
		Cor	versation	•			
	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]		-	SUP reference:					
				Q.19	912.5	[1], clauses 6.1.3.6, B.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection criteria											
ISUP selection criteria	PICS 1/7										
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 portion is in the format "+"CC+NDC+SN, Privacy value										
values	"id" is present	•									
ISUP parameter	IAM message with the Calli	ng par	ty number	paramete	er cod	led					
values	Address signals = nu Screening indicator = Number Incomplete I Numbering plan indic Address Presentation NoAS: "international	enetwo Indicato Cator = In Restr	ork provided or = PIXIT ISDN numb icted Indica	ering pla	n	·					
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					

TP402014	SIP reference: RFC	3261	[4]	0.10	-	SUP reference: [1], clauses 6.1.3.6, B.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection	100. 00. 100. 100. 100.										
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 format	"+"C	C+NDC+SN. Privacy value					
values	"id" is present					, ,					
ISUP parameter	IAM message with the Callin	ng par	ty number	paramete	r coc	ded					
values	Address signals = nu Screening indicator = Number Incomplete I Numbering plan indic Address Presentatior NoAS: "national (sign	enetwo ndicato ator = n Restr	ork provided or = PIXIT ISDN numb icted Indica	ering plan	ı	·					
Comments	SIP-I		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					

TP402015	SIP reference: RFC	3261	[4]	_	-	SUP reference:					
		Q.1912.5 [1], clauses 6.1.3.6, B.1									
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection											
criteria											
ISUP selection	PICS 1/7										
criteria											
Test purpose						the encapsulated IAM or the					
			ne encapsu	lated IAM	1 is no	t identical to the From header					
	field, Privacy value "id" rece		norty nymb	or io dori	uad fr	om the From beader field. The					
						om the From header field. The					
CID parameter	Address Presentation Restricted Indicator is set to Presentation restricted. INVITE: P-Asserted identity user portion is in the format "+"CC+NDC+SN, Privacy value										
SIP parameter values		user p	ortion is in i	ne ioima	ı + C	C+NDC+SN, Privacy value					
	"id" is present	tional	Calling no		0, 00	ramatar andod					
ISUP parameter values	IAM message with the Addi										
values	Address signals = nu Screening indicator =					idei					
				ot vermed	ı						
	Number Incomplete Numbering plan indic			arina nla							
	Address Presentation					tion rostricted					
	NoAS: "international			uoi = Fie	Seniai	lion restricted					
Comments	SIP-I	Humbe	SU ⁻	т		ISUP					
Comments	INVITE(IAM)	→	- 30	<u> </u>	→	IAM					
	180 Ringing(ACM)	_			-	ACM					
		+			+	ANM					
	200 OK INVITE(ANM) ← ← ANM										
	AOR	7	Convers	ation	<u> </u>						
	BYE(REL)	→	COLLAGE	auon	→	REL					
	` '	+			-	RLC					
	200 OK BYE(RLC)	7			7	IKLU					

TP402016	SIP reference: RFC	3261	[4]	2.10	-	SUP reference:					
	Q.1912.5 [1], clauses 6.1.3.6, B.1										
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection											
criteria											
ISUP selection	NOT PICS 1/7										
criteria											
Test purpose						the encapsulated IAM or the					
			ne encapsu	lated IAM	is no	t identical to the From header					
	field, Privacy value "id" rece										
						om the From header field. The					
	Address Presentation Restri										
SIP parameter	INVITE: P-Asserted identity user portion is in the format "+"CC+NDC+SN, Privacy value										
values	"id" is present										
ISUP parameter	IAM message with the Addi	tional	Calling par	rty numbe	r pai	rameter coded					
values	Address signals = nu				n hea	der					
	Screening indicator =	= User	provided, no	ot verified							
	Number Incomplete I										
	Numbering plan indic										
	Address Presentation	n Restr	icted Indica	tor = Pres	entat	tion restricted					
	NoAS: "national (sign	nificant) number"								
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					

5.3.3 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 id	entity red	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	C 3261	[4]		ISUP referen 1912.5 [1], clau 31 [i.2], clause	ıse B.2,				
TSS reference	ISUP-SIP-ISUP/SS/COLP									
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Connected number (user sub-address	provid	ed, verified	and passe	d) with connec	ted				
	Ensure that the SUT passes transparently a default connected number with the screening indicator set to "verified and passed" and an access transport parameter									
	containing the connected s	ub-addr	ess.							
SIP parameter					·					
values										
ISUP parameter	IAM;									
values	optional forward call indic Connected line identity requal a) ANM; Connected number paran	uest ind	licator: requ	ested						
				NO!D						
	Address presentation restri			10.B						
	Nature of address indicator		DOTTE							
	Numbering plan indicator = Screening indicator = '01'B									
	Address signals = PIXIT									
		aramat	or containin	a the conne	etad cub addrag	00				
	and an access transport p	aramei	er comanii	ig the conne	cied Sub-addres	55.				
	b) CON;									
	*									
	Connected number parameter									
	Address presentation restricted parameter = '00'B									
	Nature of address indicator = '0000011'B									
		Numbering plan indicator = '001'B								
	Screening indicator = '01'B Address signals = PIXIT									
	and an access transport p	oromot	or containin	a the conne	atad aub addra	00				
Comments	SIP-I	Jaramer	SU ⁻		ISUP	55				
Comments	INVITE(IAM)	→	30	-						
	CASE A	7	<u> </u>	7	IAM					
			1		- 10014					
	180 Ringing(ACM)	-		•						
	200 OK INVITE(ANM)	(1		- ANM					
	ACK	→	İ							
	CASE B		1	1 -	· loon					
	200 OK INVITE(CON)	(•	CON					
	ACK	→								
			Convers							
	BYE(REL)	→		-						
	200 OK BYE(RLC)	←		(€	RLC					

TP403003	SIP reference: RFC 3	3261	[4]	Q.19	ISUP reference: 912.5 [1], clause B.2, [i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP		'		
SIP selection					
criteria					
ISUP selection					
criteria				(6) 1) 1:1	
Test purpose	Connected number (user pr Ensure that the SUT passes t screening indicator set to "net connected number with the so an access transport parame	transp twork creen	parently a de provided", a ing indicato	efault connec a generic nur r set to "user p	ted number with the nber containing the additional provided, not verified" without
SIP parameter values			J		
ISUP parameter	IAM;				
values	optional forward call indica	tors			
	Connected line identity reque		icator: requ	ested	
	a)				
	ANM;				
	Connected number parame			OID	
	Address presentation restricted Nature of address indicator =			IO.R	
	Numbering plan indicator = '0		0116		
	Screening indicator = '11'B	0.5			
	Address signals = PIXIT				
	Additional connected numb				
	Address presentation restricted			00'B	
	Nature of address indicator =		0011'B		
	Numbering plan indicator = '0 Screening indicator = '00'B	UIB			
	Address signals = PIXIT				
	b)				
	ĆON;				
	Connected number parame				
	Address presentation restricted			00'B	
	Nature of address indicator =		0011'B		
	Numbering plan indicator = '0 Screening indicator = '11'B	UIB			
	Address signals = PIXIT				
	Additional connected numb	er pr	esent		
	Address presentation restricted	ed pai	rameter = 'C	00'B	
	Nature of address indicator =		011'B		
	Numbering plan indicator = '0	01'B			
	Screening indicator = '00'B Address signals = PIXIT				
Camman'-	SIP-I		SUT	- 1	leup
Comments		→	501	· →	ISUP IAM
	CASE A	7		7	IIVINI
		+		+	ACM
		-		+	ANM
	ACK	→			
	CASE B		-		
	\ /	(+	CON
	ACK	→			
	DVE(DEL)		Convers		DEL
		<u>→</u>		→	REL
	200 OK BYE(RLC)	_		7	RLC

TP403004	SIP reference: RF0	C 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									
					onnected number is removed				
	if it is the network's own co								
	"national (significant) numb				ricted indicator and the				
	screening indicator shall be			arently.					
SIP parameter	200 OK: encapsulated ANN								
values	Connected number								
	Address presentatio								
	Nature of address in			В					
	Numbering plan indi Screening indicator								
	Address signals = P		_31						
ISUP parameter		IXII							
values	IAM;								
Values	optional forward call indicators								
		Connected line identity request indicator: requested							
	a)								
	ANM;								
	Connected number parameter								
	Address presentation restri			00.B					
	Nature of address indicator		J100'B						
	Numbering plan indicator =								
	Screening indicator = ISUP Address signals = CC+PIXI								
	b)								
	CON;								
	Connected number paran	neter							
	Address presentation restricted parameter = '00'B								
	Nature of address indicator = '0000100'B								
	Numbering plan indicator = '001'B								
	Screening indicator = ISUP_SI								
	Address signals = CC+PIXI								
	Generic number paramete	er not p							
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	CASE A	1 -	1	т	1				
	180 Ringing(ACM)	+		(ACM				
	200 OK INVITE(ANM)	+		-	ANM				
	ACK	→							
	CASE B	1 -	1	1 -	lagu				
	200 OK INVITE(CON)	+		←	CON				
	ACK	→	<u> </u>						
			Convers						
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+	<u> </u>	←	RLC				

TP403005	SIP reference: RF	C 3261 [[4]		ISUP reference:
					912.5 [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 1/7				
criteria	PICS 1//				
Test purpose	Converting the additiona	l conne	cted numbe	r to national	format if necessary
l cot parpood					eneric number coded as an
	"additional connected num				
					of address indicator shall be
					on restricted indicator and the
	screening indicator shall b			rently.	
SIP parameter	200 OK: encapsulated AN		N		
values	additional connected nu				
	Address presentation restr)'B	
	Nature of address indicator		บาาช		
	Numbering plan indicator =				
	Screening indicator = '01'E Address signals = PIXIT	,			
ISUP parameter	IAM;				
values	optional forward call ind	icators			
	Connected line identity red		icator: reque	etad	
	a)	quest inu	icator. reque	sieu	
	ANM;				
	Connected number para	meter pr	esent		
	additional connected nu	mber [']			
	Address presentation restr	ricted par	rameter = '00)'B	
	Nature of address indicato)100'B		
	Numbering plan indicator =				
	Screening indicator = '01'E				
	Address signals = CC+PIX	KI I			
	b) CON ;				
	Connected number para	meter pr	esent		
	additional connected nu				
	Address presentation restr	ricted par	rameter = '00)'B	
	Nature of address indicato	r = '0000			
	Numbering plan indicator =				
	Screening indicator = '01'E				
0	Address signals = CC+PIX	(II			licup
Comments	SIP-I	→	SUT		ISUP
	INVITE(IAM) CASE A	7		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		 	ANM
	ACK	→			/ AT ATAI
	CASE B		1	l l	_1
	200 OK INVITE(CON)	+		+	CON
	ACK	→			
			Conversa	tion	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP403006	SIP reference: RFC 3261 [4]	I	Q.19	SUP reference: 12.5 [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 international connected number Ensure that a prefix is added to the connected number and the nature of address indicator is set to "unknown" (see note).									
SIP parameter	200 OK INVITE with encapsulated A		N							
values	Connected number parameter									
	Address presentation restricted									
	Nature of address indicator =		В							
	Numbering plan indicator = '0'	01'B								
	Screening indicator = '11'B Address signals = PIXIT									
ISUP parameter	ANM/CON:									
values	Connected number parameter									
Values	Address presentation restricted para	meter = '0	0'B							
	Nature of address indicator = '00000		0.2							
	Numbering plan indicator = '001'B									
	Screening indicator = '11'B									
	Address signals = Prefix+PIXIT									
Comments	SIP-I	SUT	-	ISUP						
	IAM →		→	INVITE(IAM)						
	CASE A									
	ACM ←		+	180 Ringing(ACM)						
	ANM ←		+	200 OK INVITE(ANM)						
			→	ACK						
	CASE B									
	CON +		+	200 OK INVITE(CON)						
			→	ACK						
		Convers								
	REL →		→	BYE(REL)						
	RLC ←		←	200 OK BYE(RLC)						
NOTE: The codi	ng "unknown" is a national option (@).									

TP403007	SIP reference: RFC 3261 [4	·]	ISUP reference:
			Q.1912.5 [1], clause B.2, Q.731 [i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP	U.	
SIP selection			
criteria			
ISUP selection	PICS 1/8 AND PICS 7/3		
criteria			
Test purpose	Discarding the connected number		
			ed in case of bilateral agreements, if the
oin .			to "presentation allowed" (see note).
SIP parameter	200 OK INVITE with encapsulated A		N
values	Connected number parame		10010
	Address presentation restrict		
	Nature of address indicator =		В
	Numbering plan indicator = '0 Screening indicator = '11'B	JUT B	
	Address signals = PIXIT		
ISUP parameter	IAM;		
values	optional forward call indicators		
Values	Connected line identity request indicated	ator: reque	ested
	a)	ator. roque	56164
	ANM;		
	No Connected number parameter		
	b)		
	CON;		
	No Connected number parameter		
Comments	ISUP	SUT	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
		Conversa	
	REL →		→ BYE(REL)
	RLC ←		← 200 OK BYE(RLC)
	teral agreement prohibits the transferra ess presentation restricted indicator se		nnected number in any case. The test with ntation restricted" is a COLR test.

TP403008	SIP reference: RFC 32	61 [4]	Q.19	ISUP reference: 12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1							
TSS reference	ISUP-SIP-ISUP/SS/COLP										
SIP selection criteria											
ISUP selection criteria	PICS 1/8 AND PICS 7/4										
Test purpose	Discarding the additional connected number in case of bilateral agreements Ensure that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed" (see note).										
SIP parameter	200 OK INVITE with encapsula	ted ANM or CO	ON								
values	Additional Connected number parameter Address presentation restricted parameter = '00'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = '00'B Address signals = PIXIT										
ISUP parameter	IAM;										
values	optional forward call indicators										
	Connected line identity request	indicator: real	lested								
	·	maicator. requ	icolou								
	a)										
	ANM;										
	No Connected number parame No Additional connected number b)										
	CON;										
	No Connected number parame	ter									
	No Additional connected number										
Comments	ISUP	SU'	Т	SIP-I							
	IAM		→	INVITE(IAM)							
	CASE A	<u> </u>	1 -	=\							
	ACM •	_	+	180 Ringing(ACM)							
	ANM		+	200 OK INVITE(ANM)							
	7.1.111		→	ACK							
	CASE B	ı		, to t							
	CON	_	+	200 OK INVITE(CON)							
			→	ACK							
		Convers		7.0.1							
	REL -		→	BYE(REL)							
	RLC •		· ·	200 OK BYE(RLC)							
NOTE: This bila	teral agreement prohibits the tran		_								
	in any case.	ordina or tile a	danional comit	occa namber in the generic							

TP403009	SIP reference: RFC	3261	[4]		ISUP reference:			
				Q.19	12.5 [1], clause B.2,			
				Q.731	[i.2], clause 5.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/COLP							
SIP selection								
criteria	7.00 . / /2							
ISUP selection	PICS 1/8							
criteria			(- !(
Test purpose	Converting the connected							
	Ensure that the exchange c							
					nal number" and can pass on			
SIP parameter	the address presentation re 200 OK INVITE with encaps				ng indicator transparently.			
values	Connected number			'IN				
values	Address presentation			tor - '00'B				
	Nature of address in							
	Numbering plan indi			Ь				
	Screening indicator		JU 1 D					
	Address signals = C		т					
ISUP parameter	IAM;	<u> </u>	•					
values	optional forward call indic	ators						
	Connected line identity requ		licator: requ	ested				
	a)							
	Α̈́NM;							
	Connected number param	eter						
	Address presentation restric	cted pa	rameter = '0	0'B				
	Nature of address indicator	= '0000'	0100'B					
	Numbering plan indicator =	'001'B						
	Screening indicator = '11'B							
	Address signals = PIXIT							
	Presentation restricted indic							
	additional connected num	i ber pr	esent					
	b)							
	CON;							
	Connected number param			OID				
	Address presentation restrict			υБ				
	Nature of address indicator Numbering plan indicator =		Л100 Б					
		0016						
	Screening indicator = '11'B Address signals = PIXIT							
	Presentation restricted indic	ator =	'00'B					
	additional connected num							
Comments	SIP-I	P1	SUT	•	ISUP			
	INVITE(IAM)	→		→	IAM			
	CASE À	l	•		•			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
	CASE B			ı.	•			
	200 OK INVITE(CON)	+		+	CON			
	ACK	→						
			Conversa	ation				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	←		+	RLC			

TP403010	SIP reference: RFC	3261	[4]			ISUP reference:				
						12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/COLP		<u> </u>			[],				
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Handling unrequested CO	Handling unrequested COL								
	Ensure that the call can be	succes	sfully set up	if the SU	Trec	ceives an unsolicited COL.				
SIP parameter	200 OK INVITE with encaps	sulated	ANM or CC	N						
values	Connected number	paran	neter							
	Address presentation	n restri	cted parame	eter = '00'E	3					
	Nature of address in	dicator	= '0000011	В						
	Numbering plan indic		'001'B							
	Screening indicator =									
	Address signals = PI	XIT								
ISUP parameter	IAM;									
values	optional forward call indic		P. A. S.							
	Connected line identity requ	iest inc	licator: not r	equested	ı					
	a)									
	ANM;	4								
	Connected number parameter Address presentation restriction		romotor - 'O	Λ'D						
	Nature of address indicator			υБ						
	Numbering plan indicator =		00116							
	Screening indicator = '11'B	0016								
	Address signals = PIXIT									
	additional connected num	ber pr	esent							
	b)	р.	000							
	CON;									
	Connected number param	eter								
	Address presentation restrict		rameter = '0	0'B						
	Nature of address indicator	= '0000'	0011'B							
	Numbering plan indicator =	'001'B								
	Screening indicator = '11'B									
	Address signals = PIXIT	_								
	additional connected num	ber pr				l.a				
Comments	SIP-I		SUT	-		ISUP				
	INVITE(IAM)	→			→	IAM				
	CASE A		T			1				
	180 Ringing(ACM)	←			<u>+</u>	ACM				
	200 OK INVITE(ANM)	←			+	ANM				
	ACK	→								
	CASE B			ı		loon				
	200 OK INVITE(CON)	←			+	CON				
	ACK	→								
			Convers	ation						
	BYE(REL)	→			<u>→</u>	REL				
	200 OK BYE(RLC)	+			←	RLC				

TP403012	SIP reference: RFC	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									
SIP selection										
criteria										
ISUP selection	PICS 1/7									
criteria										
Test purpose	Ensure that an ANM or CON without changing. The conne	cted r	number is ui							
	connected sub address is inc									
SIP parameter values	200 OK INVITE: encapsulate	d ANI	M or CON ir	ncluded						
ISUP parameter	a)									
values	ANM;									
	Connected number parame									
	Address presentation restrict			00'B						
	Nature of address indicator =)011'B							
	Numbering plan indicator = '0)01'B								
	Screening indicator = '11'B									
	Address signals = PIXIT									
	and an access transport pa	ramet	er containin	ig the conn	ecte	ed sub-address.				
	b)									
	CON;									
	Connected number parame		romotor (NO'D						
	Address presentation restrict			Ю Б						
	Nature of address indicator = '0000011'B									
	Numbering plan indicator = '001'B									
	Screening indicator = '11'B Address signals = PIXIT									
	and an access transport pa	ramet	er containin	a the conn	ecte	ed sub-address				
Comments	ISUP	ramot	SU		-	SIP-I				
	IAM	→			}	INVITE(IAM)				
	CASE A					11.1.1.2(1))				
	ACM	+			(180 Ringing(ACM)				
	ANM	-			<u>-</u>	200 OK INVITE(ANM)				
					<u>`</u>	ACK				
	CASE B		I	I		1				
	CON	-			(200 OK INVITE(CON)				
		_			<u>`</u>	ACK				
			Convers			,				
	REL	→	30117013		>	BYE(REL)				
	RLC	′			<u> </u>	200 OK BYE(RLC)				
	1.120		<u>I</u>			1200 011 0112(1120)				

TP403013	SIP reference: RFC	3261	[4]			SUP reference:
				,	Q.19	12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP				4./3I	[1.2], clause 5.5.2.1.1
SIP selection	1301 -311 -1301 /33/60E1					
criteria						
ISUP selection						
criteria						
Test purpose	O-MGCF: connected number	er and	additional co	onnected	numk	per transferred transparently
	Ensure that an ANM or CON	N enca	osulated in a	a 200 OK	INVI	TE is sent on the ISUP side
	without changing. The conn					
	connected sub address is in	ncluded				
SIP parameter	200 OK INVITE: encapsulat	ted ANI	M or CON in	cluded		
values						
ISUP parameter	a)					
values	ANM;					
	Connected number param					
	Address presentation restrict			0'B		
	Nature of address indicator)011'B			
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT Additional connected nun	abor or	ocont			
	Address presentation restrict			n'B		
	Nature of address indicator			ОБ		
	Numbering plan indicator =		OTTB			
	Screening indicator = '00'B	0011				
	Address signals = PIXIT					
	and an access transport p	aramet	er containin	g the cor	necte	ed sub-address.
	b)			•		
	CON;					
	Connected number param					
	Address presentation restrict			0'B		
	Nature of address indicator		0011'B			
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Additional connected num		acant			
	Additional connected nun			ıΛ'D		
	Address presentation restrict Nature of address indicator			ОБ		
	Numbering plan indicator =		טווטק			
	Screening indicator = '00'B	JU1 D				
	Address signals = PIXIT					
	and an access transport p	aramet	er containin	g the cor	necte	ed sub-address.
Comments	ISUP		SU1			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)

5.3.4 Connected Line Identification Restriction (COLR)

TP404001	SIP reference: RFC	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		I		<u></u>				
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Passing on information relating to COLR Ensure that the SUT shall pass transparently all information related to the COLR supplementary service in the address presentation restricted indicator of the connected number.								
SIP parameter									
values									
ISUP parameter	IAM;								
values	optional forward call indice Connected line identity requeate ANM; Connected number parame Address presentation restrice Nature of address indicator Numbering plan indicator = Screening indicator = '01'B Address signals = PIXIT b) CON; Connected number parame Address presentation restrice Nature of address indicator Numbering plan indicator = Screening indicator = '01'B Address signals = PIXIT	eter cted pa = '0000' '001'B eter cted pa	rameter = '0 0011'B rameter = '0	1' B					
Comments	SIP-I		SUT		ISUP				
Comments	INVITE(IAM)	→	301	→	IAM				
	CASE A	7	1		IIVINI				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	`			, u tivi				
	CASE B								
	200 OK INVITE(CON)	+		+	CON				
	ACK	→							
			Conversa	ition					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP404002	SIP reference: RFC	3261	[4]		I	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	Descing an information role	-tin a	to COLD			
Test purpose	Passing on information relations are that the SUT shall pa			II informat	ion r	related to the COLP
	supplementary service in the					
	number and the additional co					
SIP parameter				J		
values						
ISUP parameter	IAM;					
values	optional forward call indica	tors				
	Connected line identity reque	st ind	icator: requ	ested		
	a)					
	ANM;					
	Connected number parame		,	41.5		
	Address presentation restrict			1 B		
	Nature of address indicator = '0' Numbering plan indicator = '0'		DUTTE			
	Screening indicator = '11'B	ЛΙБ				
	Address signals = PIXIT					
	Additional connected number	oer pr	esent			
	Address presentation restrict			1' B		
	Nature of address indicator =					
	Numbering plan indicator = '0	01'B				
	Screening indicator = '00'B					
	Address signals = PIXIT					
	b)					
	CON; Connected number parame	tor				
	Address presentation restrict		rameter – '∩	1' B		
	Nature of address indicator =			, ,		
	Numbering plan indicator = 'C		701.2			
	Screening indicator = '11'B					
	Address signals = PIXIT					
	Additional connected number					
	Address presentation restrict			1' B		
	Nature of address indicator =)011'B			
	Numbering plan indicator = '0	IOT B				
	Screening indicator = '00'B Address signals = PIXIT					
Comments	SIP-I		SUT	·		ISUP
Comments	INVITE(IAM)	→	301	+	→	IAM
	CASE A		I	I		In 1141
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	`		+	\	ANM
	ACK	→				
	CASE B			ı.		1
	200 OK INVITE(CON)	←			←	CON
	ACK	→				
			Conversa	ation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			←	RLC

TP404003	SIP reference: RFC 33	261 [4]		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	Restricted connected number	er (user provid	ed, verified an	d passed) with connected			
	sub-address						
	Ensure that the SUT can pass						
	indicator set to "user provided,						
	restricted indicator set to "pres						
	Additionally, an access transp	oort parameter	containing the	connected sub-address			
oin .	shall also be provided.						
SIP parameter							
values	1000						
ISUP parameter values	IAM;	oro					
values	optional forward call indicate Connected line identity reques		inatad				
	a)	st indicator, requ	iesiea				
	ANM;						
	Connected number parameter	۵r					
	Address presentation restricted		01' B				
	Nature of address indicator = '		01 5				
	Numbering plan indicator = '00						
	Screening indicator = '01'B	–					
	Address signals = PIXIT						
	access transport parameter co	ntaining the co	nnected sub-ad	dress			
	b)						
	CON;						
	Connected number parameter						
	Address presentation restricted		01' B				
	Nature of address indicator = '0000011'B						
	Numbering plan indicator = '001'B						
	Screening indicator = '01'B						
	Address signals = PIXIT access transport parameter containing the connected sub-address						
Comments	SIP-I	SU		ISUP			
Comments		→ 30	· →	IAM			
	CASE A	-	7	Italiai			
		(+	ACM			
		-		ANM			
		\		/ \(\daggregative\)			
	CASE B	<u>- 1</u>	I	1			
		(+	CON			
		}					
	7.010	Convers	sation				
	BYE(REL)	→ Convers	• • • • • • • • • • • • • • • • • • •	REL			
		,	-	RLC			
	200 OR BTE(RLC)						

TP404004	SIP reference: RF0	3261	[4]	ISUP reference: Q.1912.5 [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	PICS 7/1								
criteria									
Test purpose	Discarding the connected number if the presentation is restricted								
				ded in case of bilateral agreements, if the					
				t to "presentation restricted".					
SIP parameter	200 INVITE: encapsulated								
values	No Connected numb	per para	ımeter inclu	ided					
ISUP parameter	IAM;								
values	optional forward call indi								
	Connected line identity requ	uest ind	icator: requ	ested					
	a) ANM ;								
	Connected number paran	notor							
	Address presentation restri	cted na	rameter - 'C	11'B					
	Nature of address indicator			טוס					
	Numbering plan indicator =		ЮПБ						
	Screening indicator = '11'B	0010							
	Address signals = PIXIT								
	b)								
	CON;								
	Connected number paran	neter							
	Address presentation restricted parameter = '01'B								
	Nature of address indicator = '0000011'B								
	Numbering plan indicator = '001'B								
	Screening indicator = '11'B								
	Address signals = PIXIT								
Comments	SIP-I		SUT						
	INVITE(IAM)	→		→ IAM					
	CASE A								
	180 Ringing(ACM)	+		← ACM					
	200 OK INVITE(ANM)	+		← ANM					
	ACK	→							
	CASE B								
	200 OK INVITE(CON)	+		← CON					
	ACK	→							
			Convers						
	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			Q.101	[1.2], 014400 010.21111			
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			41				
	Ensure that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to							
	"presentation restricted".	addres	s presenta	llion restricted	indicator is set to			
SIP parameter	200 INVITE: encapsulated A	NM or C	.UN					
values	No Additional Connec			eter included				
ISUP parameter	IAM;		paran					
values	optional forward call indica	ators						
	Connected line identity reque	est indic	ator: reque	sted				
	a)							
	ANM;							
	Connected number parame							
	Additional Connected num			מיי				
	Address presentation restrict Nature of address indicator =			IВ				
	Numbering plan indicator = '0		116					
	Screening indicator = '11'B	0015						
	Address signals = PIXIT							
	b)							
	CON;							
	Connected number parame	eter pres	ent					
	Additional Connected num	-						
	Address presentation restrict Nature of address indicator =			I.R				
	Numbering plan indicator = '0		IID					
	Screening indicator = '11'B	0016						
	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			1 #	loon			
	200 OK INVITE(CON)	(+	CON			
	ACK	→	Canvara	dian				
	DVE(DEL)		Conversa		DEI			
	BYE(REL) 200 OK BYE(RLC)	}		 	REL RLC			
	ZUU UN DIE(KLU)	•		7	INLO			

Q.1912.5 [1], clause Q.731 [i.2], clause 6. TSS reference ISUP-SIP-ISUP/SS/COLR SIP selection							
TSS reference ISUP-SIP-ISUP/SS/COLR	.5.2.1.1						
OII SUICULUII							
criteria							
ISUP selection							
criteria							
Test purpose O-MGCF: Connected number, additional connected number and connected	subaddress						
transferred							
Ensure that an ANM or CON encapsulated in a 200 OK INVITE is sent on the	o ICLID aida						
without changing. The connected number is unchanged. The ATP contained							
connected sub address is included.	1 110						
SIP parameter 200 OK INVITE: encapsulated ANM or CON included							
values							
ISUP parameter ANM;							
values Connected number parameter							
Address presentation restricted parameter = '01'B							
Nature of address indicator = '0000011'B							
Numbering plan indicator = '001'B							
Screening indicator = '11'B							
Address signals = PIXIT							
Additional connected number present							
Address presentation restricted parameter = '01'B							
Nature of address indicator = '0000011'B							
Numbering plan indicator = '001'B							
Screening indicator = '00'B Address signals = PIXIT							
and an access transport parameter containing the connected sub-address							
b)	•						
CON;							
Connected number parameter							
Address presentation restricted parameter = '01'B							
Nature of address indicator = '0000011'B							
Numbering plan indicator = '001'B							
Screening indicator = '11'B							
Address signals = PIXIT							
Additional connected number present							
Address presentation restricted parameter = '01'B							
Nature of address indicator = '0000011'B							
Numbering plan indicator = '001'B Screening indicator = '00'B							
Address signals = PIXIT							
and an access transport parameter containing the connected sub-address							
Comments ISUP SUT SIP-I	•						
IAM → INVITE(IAM)							
CASE A							
ACM ← 180 Ringing(A	ACM)						
ANM ← 200 OK INVIT							
→ ACK							
CASE B							
CON ← 200 OK INVIT	E(CON)						
→ ACK							
Conversation							
REL Conversation REL → BYE(REL)							

5.3.5 Terminal Portability (TP)

TP405001	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause B.13, Q.733 [i.6], clause 4.5.2.1			
TSS reference	ISUP-SIP-ISUP/SS/TF)					
SIP selection							
criteria							
ISUP selection criteria							
Test purpose	Terminal portability, requested by the calling party Ensure that SUT informs the called party that a suspend and a resume have been requested by the calling party upon receipt of user initiated SUS and RES messages.						
SIP parameter values	INFO: Content-Type: application/ISUP; SUS and RES encapsulated 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	on			
	SUS	→		→	INFO(SUS)		
				←	200 OK INFO		
	RES	→		→	INFO(RES)		
				+	200 OK INFO		
	REL	→		→	BYE(REL)		
	RLC	←		+	200 OK BYE(RLC)		

TP405002	SIP reference: RI	FC 3261 [4	1]	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, requested by the called party Ensure that SUT informs the calling party that a suspend and a resume have been requested by the called party upon receipt of user initiated SUS and RES messages.						
SIP parameter values	INFO: Content-Type: app	lication/ISI	JP ; SUS and R	RES enca	psulated 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	1			
	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]	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	Ensure that the call is release	Terminal portability, requested by local served user, no Resume after Suspend Ensure that the call is released with cause #102 (recovery on timer expiry) by the SUT if timer T2 expires because the local served user does not resume the call.						
SIP parameter	INFO: Content-Type: applic	INFO: Content-Type: application/ISUP; SUS encapsulated in the MIME body						
values	BYE: Content-Type: applica	tion/IS	UP; REL ei	ncapsulated in	the MIME body			
ISUP parameter								
values								
Comments	ISUP		SU	Γ	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	e: RFC 3261 [4	1]	Q.19	ISUP reference: 12.5 [1], clause B.13, 3 [i.6], clause 4.5.2.1		
TSS reference	ISUP-SIP-ISUP/SS/	ГР		Q.75	<u> </u>		
SIP selection criteria							
ISUP selection criteria							
Test purpose		Terminal portability, release suspended call Ensure that a suspended call can be released, if the remote user releases the call.					
SIP parameter	INFO: Content-Type						
values	BYE: Content-Type:	application/ISU	P; REL encaps	ulated 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 sub-address in the access transport parameter Ensure that the SUT can include the called sub-address in the access transport parameter in the encapsulated IAM.						
SIP parameter values	INVITE: Content-T application/ISUP;				cation/ISUP, Content-Type:		
ISUP parameter values		·		-			
Comments	ISUP		SUT		SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
	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-address in the access transport parameter Ensure that the SUT can include the called sub-address in the access transport parameter 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	→				
			Conversatio	n		
	BYE(REL)	→		→	REL	
	200 OK BYE(RLC)	+		+	RLC	

TP406003	SIP reference: RFC	3261	[4]		ISUP reference:		
					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-address in the access transport parameter						
	Ensure that the SUT can include the calling sub-address in the access transport						
	parameter in the encapsulated IAM.						
SIP parameter	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP multipart/mixed,						
values	Content-Type: application/ISUP, Content-Type: application/ISUP; IAM encapsulated 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		
			Conversa	ation			
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP406004	SIP reference: RI	FC 3261 [4	4]	Q.19	ISUP reference: 112.5 [1], clause B.5, [i.2], clause 8.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/SUB						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Receiving the calling sub-address in the access transport parameter Ensure that the SUT can include the calling sub-address in the access transport parameter 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	→					
	Conversation						
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

5.3.7 Malicious Call Identification (MCID)

TP407001	SIP referenc	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/I	MCID				
SIP selection						
criteria						
ISUP selection criteria						
Test purpose	Successful MCID request 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 Progress: Content-Type: application/ISUP; IDR encapsulated in the MIME body INFO: Content-Type: application/ISUP; IRS encapsulated in the MIME body					
ISUP parameter values						
Comments	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)	

TP407002	SIP reference: RFC 3261 [4]			ISUP reference:			
					Q.19	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	Successful MCID request I-MGCF						
	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: Content-Type: application/ISUP; IDR encapsulated in the MIME						
values	body						
	INFO: Content-Type: application	on/ISUF	P; IRS er	ncapsulate	ed in t	the MIME body	
ISUP parameter values							
Comments	SIP-I		S	UT		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	→					
	Conversation						
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+			+	RLC	

TP407003	SIP reference: RFC 32	261 [4]			Q.19	ISUP reference: 112.5 [1], clause B.4, 7 [i.3], clause 7.5.2.1.1	
TSS reference	ISUP-SIP-ISUP/SS/MCID						
SIP selection criteria							
ISUP selection							
criteria							
Test purpose	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 included" and the calling party number included (see note).						
SIP parameter	INFO: Content-Type: application						
values	INFO: Content-Type: application						
ISUP parameter values	IRS containing the calling party					Joseph	
Comments	SIP-I		S	UT		ISUP	
	INVITE(IAM)	→			→	IAM	
	CASE A						
	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	re reac	hing the destination.	

TP407004	SIP reference: RF0	3261	[4]		ISUP reference: 912.5 [1], clause B.4, 1.7 [i.3], clause 7.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/MCID				
SIP selection criteria					
ISUP selection criteria					
Test purpose	MCID request - MCID not Ensure that the SUT rejects indicator set to "MCID not	s a MCI	D request by ser	nding an	IRS with the MCID response
SIP parameter					R encapsulated in the MIME
values	body INFO: Content-Type: applic	ation/IS	SUP; IRS encaps	sulated ii	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
			Conversation	•	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP407005	SIP reference: RFC 32	261 [4]			ISUP reference: 912.5 [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	Ensure that the SUT rejects a	MCID request - MCID not supported by the OLE I-MGCF Ensure that the SUT rejects a MCID request by sending an IRS with the MCID response indicator set to "MCID not included". SIP-I to ISUP interworking.							
SIP parameter	183 Session Progress: Conter								
values	body INFO: Content-Type: application	on/ISUF	P: IRS enc	apsulated ir	the MIME body				
ISUP parameter values	7		,	•	,				
Comments	SIP-I		SU.	Γ	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	→							
			Convers	ation					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP407006	SIP reference: RFC 32	e61 [4]	Q.19	ISUP reference: 012.5 [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	PICS 1/7						
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 INFO: Content-Type: application/ISUP; IRS encapsulated in the MIME body						
values Comments	SIP-I	T T 6	SUT	ISUP			
Comments	INVITE(IAM)	→	→ ·	IAM			
	183 Session Progress(IDR)	+	 	IDR			
	INFO(IRS)	→	→ ·	IRS			
	200 OK INFO	,					
	180 Ringing(ACM)	È	+	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	→					
		Conve	ersation				
	BYE(REL)	→	→	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP407007	SIP reference: RF	C 3261	[4]		ISUP reference: 912.5 [1], clause B.4, 1.7 [i.3], clause 7.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/MCID							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Successful MCID request with calling sub-address O-MGCF Ensure that the SUT can successfully reply to an 183 Session Progress (IDR) having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and a calling sub-address in the access transport parameter. ISUP to SIP-I interworking.							
SIP parameter					R encapsulated in the MIME			
values	body INFO: Content-Type: applic	cation/IS	SUP; IRS enca	apsulated 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			
			Conversation	on				
	REL	→		→	BYE(REL)			
Ì	RLC	+		+	200 OK BYE(RLC)			

TP407008	SIP reference: RFC 32	261 [4]		Q.19	ISUP reference: 112.5 [1], clause B.4, 7 [i.3], clause 7.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/MCID								
SIP selection									
criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT can succe set to "MCID request" by sendi	Successful MCID request with calling sub-address I-MGCF Ensure that the SUT can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and a calling sub-address in the access transport parameter. SIP-I to ISLIP interworking							
SIP parameter values	183 Session Progress: Content body INFO: Content-Type: application	•			•				
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	→							
			Conversation	n					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP407009	SIP reference: R	FC 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 timer (T39) expiry O-MGCF Ensure that call setup is continued (user is alerted) if no IRS is received within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested". ISUP to SIP-I interworking.							
SIP parameter	183 Session Progress: C	ontent-Ty	pe: application	on/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			
			Conversat	ion				
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP407010	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	MCID timer (T39) expiry O-M						
	Ensure that call setup is continexpiry, after having sent the ID SIP-I to ISUP interworking.						
SIP parameter	183 Session Progress: Conten	t-Type:	applicat	ion/ISU	P; IDR	encapsulated in the MIME	
values	body INFO: Content-Type: application	on/ISUI	P; IRS er	ncapsula	ated in t	he MIME body	
ISUP parameter values			,	•		•	
Comments	SIP-I		S	UT		ISUP	
	INVITE(IAM)	→			→	IAM	
	183 Session Progress(IDR)	+			+	IDR	
					T39 e	xpiry	
	180 Ringing(ACM)	+			+	ACM	
	200 OK INVITE(ANM)	+			+	ANM	
	ACK	→					
			Conve	rsation			
	BYE(REL)	→			→	REL	
	200 OK BYE(RLC)	+		-	+	RLC	

5.3.8 Call hold (HOLD)

TP408001	SIP reference: RF	C 3261 [4]	0 733 [i 6] 6	ISUP reference: Q.1912.5 [1], clauses 2.5.2.1.1.1; 2.5.2.1.1.2
TSS reference	ISUP-SIP-ISUP/SS/HOLD			Q.733 [1.0], C	Jiauses 2.3.2.1.1.1, 2.3.2.1.1.2
SIP selection	1001 011 1001 700/11022				
criteria					
ISUP selection					
criteria					
Test purpose	Call hold after answer, req	uested by	the origin	nating user	
SIP parameter	Ensure that the notification messages having the ever INVITE: Content-Type: app	nt indicate	or set to "	progress". O-l	
values	Invite. Content-Type. app	DIICALIOTI/13	SUF, CPC	encapsulated	a in the while body
ISUP parameter					
values					
Comments	ISUP		SU'	Т	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
			Convers	ation	
	CPG(progress, hold)	→		→	INVITE(CPG, sendonly)
				+	200 OK INVITE
				→	ACK
	CPG(progress, retrieve)	→		→	INVITE(CPG, sendrecv)
				+	200 OK INVITE
				→	ACK
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP408002	SIP reference: RF0	C 3261	[4]		ISUP reference: Q.1912.5 [1], lauses 2.5.2.1.1.1; 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, requested by the originating user Ensure that the notifications that a call is placed on hold and retrieved are sent with CPG messages having the event indicator set to "progress". I-MGCF interworking.							
SIP parameter values	INVITE: Content-Type: app							
ISUP parameter values								
Comments	SIP-I		SU [*]	Т	ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	←		+	ACM			
	200 OK INVITE(ANM)	+		←	ANM			
			Convers					
	INVITE(CPG, sendonly)	→		→	CPG(progress, hold)			
	200 OK INVITE	+						
	ACK	→						
	INVITE(CPG, sendrecv)	→		→	CPG(progress, retrieve)			
	200 OK INVITE	+						
	ACK	→						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	←		+	RLC			

TP408003	SIP reference: RF	C 3261	[4]		ISUP reference: Q.1912.5 [1], lauses 2.5.2.1.1.1; 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, requested by the terminating user Ensure that the notifications that a call is placed on hold and retrieved are sent with CPG messages having the event indicator set to "progress". O-MGCF interworking.						
SIP parameter values	INVITE: Content-Type: app	olication	/ISUP; CPG	encapsulated	I in the MIME body		
ISUP parameter values							
Comments	ISUP		SU	Γ	SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
			Convers	ation			
	CPG(progress, hold)	+		+	INVITE(CPG, sendonly)		
				→	200 OK INVITE		
				+	ACK		
	CPG(progress, retrieve)	+		←	INVITE(CPG, sendrecv)		
				→	200 OK INVITE		
				←	ACK		
	REL	→		→	BYE(REL)		
	RLC	←		←	200 OK BYE(RLC)		

TP408004	SIP reference: RF0	3261	[4]	Q.733 [i.6], o	ISUP reference: Q.1912.5 [1], lauses 2.5.2.1.1.1; 2.5.2.1.1.2			
TSS reference	ISUP-SIP-ISUP/SS/HOLD		Į.		,			
SIP selection criteria								
ISUP selection criteria								
Test purpose	Call hold after answer, requested by the terminating user Ensure that the notifications that a call is placed on hold and retrieved are sent with CPG messages having the event indicator set to "progress". I-MGCF interworking.							
SIP parameter values	INVITE: Content-Type: app	lication/	ISUP; CPG	encapsulated	d in the MIME body			
ISUP parameter values								
Comments	SIP-I		SUT	Ī	ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	←		←	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
			Conversa	ation				
	INVITE(CPG, sendonly)	+		+	CPG(progress, hold)			
	200 OK INVITE	→						
	ACK	+						
	INVITE(CPG, sendrecv)	+		+	CPG(progress, retrieve)			
	200 OK INVITE	→						
	ACK	+						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP408005	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], Q.733 [i.6], clauses 2.2.1; 2.5.2.1.1.1; 2.5.2.1.1.2			
TSS reference	ISUP-SIP-ISUP/SS/HOLD						
SIP selection criteria							
ISUP selection criteria	PICS 8/1						
Test purpose	Call hold after alerting, re Ensure that when an outgo notifications are sent with (oing call	is placed o	n hold and reti			
SIP parameter values	INVITE: Content-Type: app						
ISUP parameter values							
Comments	ISUP		SU'	Т	SIP-I		
	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	CPG(progress, hold)	→		→	INVITE(CPG, sendonly) 200 OK INVITE		
				→	ACK		
	CPG(progress, retrieve)	→		→	INVITE(CPG, sendrecv)		
	Or O(progress, remeve)	-		-	200 OK INVITE		
				→	ACK		
	ANM	+		←	200 OK INVITE(ANM)		
			Convers	ation	, ,		
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP408006	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], Q.733 [i.6], clauses 2.2.1; 2.5.2.1.1.1; 2.5.2.1.1.2					
TSS reference	ISUP-SIP-ISUP/SS/HOLD								
SIP selection criteria									
ISUP selection criteria	PICS 8/1								
Test purpose	Call hold after alerting, re Ensure that when an outgo notifications are sent with (ing call	is placed or	n hold and ret					
SIP parameter values	INVITE: Content-Type: app								
ISUP parameter values									
Comments	SIP-I		SU'	Т	ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	INVITE(CPG, sendonly)	→		→	CPG(progress, hold)				
	200 OK INVITE	+							
	ACK	→							
	INVITE(CPG, sendrecv)	→		→	CPG(progress, retrieve)				
	200 OK INVITE	+							
	ACK	→							
	200 OK INVITE(ANM)	+		+	ANM				
		Conversation							
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP408007	SIP reference: R	FC 3261 [4	1]		ISUP reference: Q.1912.5 [1], 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 c			served user ser who activated the Call hold
SIP parameter	INVITE: Content-Type: a		SUP: CPG enca	apsulated	I in the MIME body
values	7		•	•	,
ISUP parameter values					
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
			Conversation		,
	CPG(progress, hold)	→		→	INVITE(CPG, sendonly)
				+	200 OK INVITE
				→	ACK
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP408008	SIP reference: RF	C 3261	[4]		-	SUP reference: Q.1912.5 [1], 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 Ensure that a call in the he service. I-MGCF interworki	ld state				erved user er who activated the Call hold
SIP parameter values	INVITE: Content-Type: app		/ISUP; CPG	encapsu	lated	in the MIME body
ISUP parameter						
values						
Comments	SIP-I		SUT			ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
			Conversa	tion		
	INVITE(CPG, sendonly)	→			→	CPG(progress, hold)
	200 OK INVITE	+				
	ACK	→				
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	←			+	RLC

TP408009	SIP reference: R	FC 3261 [4	1]		ISUP reference: Q.1912.5 [1], 64 [i.12], clause 2.3
TSS reference	ISUP-SIP-ISUP/SS/HOL	D			
SIP selection					
criteria					
ISUP selection criteria					
Test purpose	Call hold after answer,				
				by the us	ser who did not activate the
	Call hold service. O-MG0				
SIP parameter	INVITE: Content-Type: a	pplication/l	SUP; CPG enca	psulated	I in the MIME body
values					
ISUP parameter					
values				1	
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	←		←	180 Ringing(ACM)
	ANM	←		←	200 OK INVITE(ANM)
			Conversation		
	CPG(progress, hold)	+		+	INVITE(CPG, sendonly)
				→	200 OK INVITE
				+	ACK
	REL	→		→	BYE(REL)
	RLC	←		←	200 OK BYE(RLC)

TP408010	SIP reference: RF	C 3261	[4]		ISUP reference: Q.1912.5 [1], 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 Ensure that a call in the he Call hold service. I-MGCF	ld state	can be releas		ting user eer who did not activate the
SIP parameter values	INVITE: Content-Type: app	olication	/ISUP; CPG e	ncapsulated	in the MIME body
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
			Conversat	ion	
	INVITE(CPG, sendonly)	+		+	CPG(progress, hold)
	200 OK INVITE	→			
	ACK	+			
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	←		+	RLC

TP408011	SIP reference: R	FC 3261 [4]			ISUP reference: Q.1912.5 [1], 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 alerting, Ensure that a held call ca without retrieving the call	n be releas	ed by the user		user vated the Call hold service
SIP parameter values	INVITE: Content-Type: a	pplication/IS	SUP; CPG enca	psulated	in the MIME body
ISUP parameter values					
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
			Ringing		
	CPG(progress, hold)	→		→	INVITE(CPG, sendonly)
				+	200 OK INVITE
				→	ACK
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP408012	SIP reference: RF	C 3261 [4	.]		I	SUP reference:
						Q.1912.5 [1],
					Q.76	64 [i.12], clause 2.3
TSS reference	ISUP-SIP-ISUP/SS/HOLD					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Call hold after alerting, re					
	Ensure that a held call can	be releas	sed by the	user w	ho activ	ated the Call hold service
	without retrieving the call. I	-MGCF in	nterworking			
SIP parameter	INVITE: Content-Type: app	olication/IS	SUP; CPG	encap	sulated	in the MIME body
values						
ISUP parameter						
values						
Comments	SIP-I		SUT			ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	←			←	ACM
			Ringin	g		
	INVITE(CPG, sendonly)	→			→	CPG(progress, hold)
	200 OK INVITE	+				
	ACK	→				
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	←			←	RLC

5.3.9 Call Waiting (CW)

TP409001	SIP reference	e: RFC 3261	[4]	Q.19	ISUP reference: 012.5 [1], clause B.9, 5 [i.6], clause 1.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/C	:W			
SIP selection criteria					
ISUP selection criteria					
Test purpose	Call waiting indication Ensure that a call car waiting call. O-MGCF	n be successf		if the ACN	/ indicates that it this call a
SIP parameter	180 Ringing: Content	-Type: applic	ation/ISUP; ACN	1 encapsu	lated in the MIME bodyMIME
values	body			•	·
ISUP parameter values	ACM: Generic notifica	ation indicator	"Call is a waitin	g call"	
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM(waiting)	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversation	1	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP409002	SIP reference: RI	FC 3261	[4]		ISUP reference: 912.5 [1], clause B.9, 3 [i.6], clause 1.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/CW				<u> </u>
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Call waiting indication in A	ACM			
SIP parameter values ISUP parameter values	Ensure that a call can be waiting call. I-MGCF inter 180 Ringing: Content-Typ ACM: Generic notification	working. e: applica	ation/ISUP;	ACM encapsı	M indicates that this call is a
Comments	SIP-I		SUT	-	ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM(waiting)
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Convers	ation	
	BYE(REL)	→		→	REL
	200 OK BYE(RLC)	+		+	RLC

TP409003	SIP reference	e: RFC 3261 [4]		ISUP reference: .1912.5 [1], clause B.9, '33 [i.6], clause 1.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/C	W			
SIP selection criteria					
ISUP selection criteria					
Test purpose	Call waiting indication Ensure that a call car waiting call. O-MGCF	n be successfu	•	ned if the C	PG indicates that this call is a
SIP parameter values				CPG encap	sulated in the MIME body
ISUP parameter values	CPG: Generic notifica	ation indicator	"Call is a wa	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
			Conversat	ion	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP409004	SIP reference: RFC 32	61 [4]			-	SUP reference:
						12.5 [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	•	establis	hed if the (CPG	indicates that this call is a
	waiting call. I-MGCF interworki					
SIP parameter	180 Ringing: Content-Type: ap	plicatio	n/ISUP;	CPG enca	ıpsul	ated in the MIME body
values						
ISUP parameter	CPG: Generic notification indic	ator "Ca	all is a w	aiting call"	1	
values						
Comments	SIP-I		SI	JT		ISUP
	INVITE(IAM)	→			→	IAM
	183 Session Progress ACM)	+			←	ACM
	180 Ringing(CPG)	+			+	CPG(waiting)
	200 OK INVITE(ANM)	+			←	ANM
	ACK	→				
			Conve	sation		
	BYE(REL)	→			→	REL
	200 OK BYE(RLC)	+			+	RLC

TP409005	SIP reference: F	RFC 32	61 [4]		ISUP reference: Q.1912.5 [1], clause B.9, Q.733 [i.6], clause 1.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/CW				
SIP selection criteria					
ISUP selection criteria					
Test purpose	User rejects the waiting call Ensure that the SUT pass on a REL with cause #21 (call rejected) if a busy user rejects the waiting call. O-MGCF interworking.				
SIP parameter values	180 Ringing: Content-Type: application/ISUP; ACM or CPG encapsulated in the MIME body 480 Temporarily unavailable: Content-Type: application/ISUP; REL encapsulated in the MIME body				
ISUP parameter values	ACM or CPG: Generic notification indicator "Call is a waiting call" REL: Cause #21 (call rejected)				
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM(waiting)	+		+	180 Ringing(ACM)
	REL(#21)	+		+	480 Temporarily Unavailable(REL)
	RLC	→		→	ACK

TP409006	SIP reference: RFC 3261 [4]			912.5	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 with cause #21 (call rejected) if a busy user rejects the waiting call. I-MGCF interworking.				
SIP parameter values	180 Ringing: Content-Type: application/ISUP; ACM or CPG encapsulated in the Message body 480 Temporarily unavailable: Content-Type: application/ISUP; REL encapsulated in the MIME body				
ISUP parameter	ACM or CPG: Generic notification indic	ator	"Call is a waiting	g call	п
values	REL: Cause #21 (call rejected)				
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	→		→	IAM
	180 Ringing(ACM)	+		+	ACM(waiting)
	480 Temporarily Unavailable(REL)	+		+	REL(#21)
	ACK	→		→	RLC

TP409008	SIP reference: R	RFC 3261	[4]	(_	SUP reference: I2.5 [1], clause B.9,
						[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 (ex					
						ver from user, user alerted) if
	a busy user does not ans					
SIP parameter	180 Ringing: Content-Ty	pe: applica	ation/ISUP ;	ACM or C	PG 6	encapsulated in the MIME
values	body					
	480 Temporarily unavaila	able: Cont	ent-Type: a	pplication/l	SUP	; REL encapsulated in the
	MIME body					
ISUP parameter	ACM or CPG: Generic no				ting (call"
values	REL: Cause #19 (no ans	wer from i	user, user a	lerted)		
Comments	SIP-I		SUT	Г		ISUP
	INVITE(IAM)	→			→	IAM
	180 Ringing(ACM)	+			+	ACM(waiting)
	T9 expiry					
					→	REL(#19)
					(RLC
	480 Temporarily	+				
	Unavailable					
	ACK	→				

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

TP410001	SIP reference: RF0				ISUP reference: 2.5 [1], clauses B.6, B.7, .732 [i.4], clause 2.5
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion			
SIP selection criteria					
ISUP selection criteria					
Test purpose	"Call is diverting" indication received in 180 Ringing Verify that a call can be successfully established, if diversion occurs. The ACM contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number. The Redirection reason is set to CV_redirection_reason. CPG (alerting) is coded as if it has been mapped from the 180 Ringing (CPG). O-MCGF interworking.				
SIP parameter		itent-Ty	pe: application	on/ISUP; AC	CM encapsulated in the MIME
values	body				
	180 Ringing: Content-Type				ulated 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	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		
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP410002	SIP reference: RFC 326	61 [4]	Q.	1912.	SUP reference: 5 [1], clauses B.6, B.7, 32 [i.4], clause 2.5
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion	on			
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	"Call is diverting" indication rece	eived in CF	G		
	Verify that a call can be success the generic notification indica and the redirection number. The Redirection reason is set to	tor set to '	call is diverting	ng", th	
	180 Ringing (CPG (alerting)) is I-MCGF interworking.	coded as i	f it has been i	mappe	
SIP parameter	183 Session Progress: Content-	-Type: app	lication/ISUP	; ACM	l encapsulated in the
values	Message body 180 Ringing: Content-Type: app	olication/IS	UP: CPG end	apsul	ated 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	→			
		Coi	nversation		
	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: F		[4]		ISUP reference: 012.5 [1], clauses B.6, B.7, 732 [i.4], clause 2.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/Call	ISUP-SIP-ISUP/SS/Call Diversion							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Verify that a call can be ACM indicates that "call following CPG contains diversion information and contains CV_redirection number. The CPG (alert parameter (optional). O-MCGF interworking.								
SIP parameter	180 Ringing: Content-Ty	pe: application	ation/ISUP;	ACM enca	psulated in the MIME body				
values					CPG encapsulated in the MIME				
ISUP parameter values	"Call diversion matter CPG: Event information:	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							
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				
			Conversa	tion					
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP410004	SIP reference: RFC 32	61 [4]	Q.1912	ISUP reference: 1.5 [1], clauses B.6, B.7, 2 [i.4], clause 2.5.2.1.1	
TSS reference	ISUP-SIP-ISUP/SS/Call Diversi	on			
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose SIP parameter	"Call diversion may occur" received in ACM Verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs. The CPG (progress) contains CV_redirection_reason in call diversion information and also Redirection number. The CPG (alerting) is coded as if it has been mapped from ACM, with RnNbRes parameter (optional). I-MCGF interworking. 180 Ringing: Content-Type: application/ISUP; ACM encapsulated in the MIME body				
values	183 Session Progress: Content body	-Type: applica	ation/ISUP; CP	G encapsulated in the MIME	
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	SIP-I		SUT	ISUP	
	INVITE(IAM)	→	→	IAM	
	180 Ringing(ACM)	+	+	ACM(free)	
	183 Session Progress(CPG)	+	+	CPG	
	183 Session Progress(CPG)	+	+	CPG(alerting)	
	200 OK INVITE(ANM)	+	+	ANM	
	ACK	→			
		Conve	ersation		
	BYE(REL)	→	→	REL	
	200 OK BYE(RLC)	+	+	RLC	

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

SIP selection criteria ISUP selection criteria Test purpose Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. SIP parameter values SIP parameter values SIP parameter values SIP parameter values ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG3: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number Redirection Progress(ACM) ACM(no indication) Event	TP410005	SIP reference: RF	C 3261	[4]	Į:	SUP reference:
TSS reference SIP selection criteria ISUP selection criteria Test purpose Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing Content-Type: ap					Q.1912.	5 [1], clauses B.6, B.7,
SIP selection criteria ISUP selection criteria Test purpose Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. SIP parameter values SIP parameter values SIP parameter values SIP parameter values ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG3: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number restriction CPG4: Event information = alerting, Redirection number Redirection Progress(ACM) ACM(no indication) Event					Q.73	2 [i.4], clause 2.4.2
Suparameter values Suparameter values	TSS reference	ISUP-SIP-ISUP/SS/Call Di	version			
SUP selection criteria Supress Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking.	SIP selection					
Test purpose Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Redirection number application "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number Redirection number Redirection number Redirection reason CV_redirection_reason Redirection number restriction CPG2: Event information=alerting, Redirection number restriction ISUP IAM PinVITE(IAM) ACM(no indication) CPG1 CPG1 CPG2(alerting) ANM CPG1 CPG2(alerting) CONVERSATION Pive 183 Session Progress(ACM) CPG2(alerting) CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION CONVERSATION ACK CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION CONVERSATION ACK CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION ACK CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION CONVERSATION Pive 180 Ringing(CPG) ANM CONVERSATION Pive 180 Ringing(CPG) ANM REL CONVERSATION Pive 180 Ringing(CPG) ANM Pive 180 Ringing(CPG) ANM Redirection number Redirection number Redirection number Redirection number Redirection number Redirection number Redirection number Redirection	criteria					
Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. SIP parameter values 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: C	ISUP selection					
diversion occur	criteria					
Several messages each containing the call diversion information are received, as if multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. SIP parameter values 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG1:	Test purpose		fy that a	call can b	e successfully	established, if multiple
multiple forwardings have occurred. The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. \$\frac{\text{SIP parameter}}{183 \text{ Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body}{180 \text{ Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body}{180 \text{ Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body}{180 \text{ Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body}{180 \text{ Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body}{180 \text{ Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body}{180 \text{ Roll Called party status indicator "No indication"}{180 \text{ Generic notification}{180 \text{ Centerion information Redirection reason unconditional Redirection number}{180 \text{ Centerion information Redirection reason CV_redirection_reason}{180 \text{ Redirection number}{180 \text{ Redirection number}{180 \text{ Redirection}{180 \text{ Redirection parameter}{180 \text{ Redirection}{180 \text{ Redirection}						
The CV_redirection_reason is used as redirection reason. The Redirection number restriction parameter is passed on. O-MCGF interworking. SIP parameter values 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME 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 reason unconditional Redirection number Redirection number Redirection number Redirection reason CV_redirection_reason Redirection number restriction CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information					version inform	nation are received, as if
The Redirection number restriction parameter is passed on. O-MCGF interworking. 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME 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 reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG1: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redi						
O-MCGF interworking. SIP parameter values 183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body ACM: BCl Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG3: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number res						
183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body			estriction	parameter	is passed on.	
body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME 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 reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2:						
183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction COmments ISUP SUT SIP-I IAM SUT INVITE(IAM) ACM(no indication) CPG1 EVENT SIP-I IAM ACM(no indication) EVENT SIP-I IAM			ntent-Ty	pe: applicat	ion/ISUP; ACM	l encapsulated in the MIME
SUP parameter values ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number Redirection number Redirection number Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction SUP SUT SIP-I IAM → INVITE(IAM) INVITE(IAM) ACM(no indication) EVENT SIP-I IAS Session Progress(ACM) CPG1 EVENT EVENT SIP-I IAS Session Progress(CPG) CPG2(alerting) EVENT EVENT SIP-I IAS Session Progress(CPG) CPG2(alerting) EVENT EVE	values	1 3				
ISUP parameter values ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information Redirection reason CV_redirection_reason Redirection number Redirection number Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG1: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG1: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction EVENT SIP-I IAM → INVITE(IAM) ACM(no indication) ← 183 Session Progress(ACM) CPG1 ← 183 Session Progress(CPG) CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) ACK Conversation REL → BYE(REL)			ntent- I y	pe: applicat	ion/ISUP; CPG	encapsulated in the MIME
ACM: BCI Called party status indicator "No indication" Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction COMMENTS SUP				- 4: /IOLID	000	at a disa tha ANNAT la a de c
Generic notification Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction CPG2: Event information=alerting, Redirection number restriction SISUP SUT SIP-I IAM ACM(no indication) ACM(no indication) CPG1 CPG1 CPG2(alerting) ANM CPG2 EVENTIAN ACK CONVERSATION BYE(REL) BYE(REL)	ICUD navamatan					ated in the MIME body
Call diversion information Redirection reason unconditional Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction Comments SUT SIP-I IAM				cator "No in	dication	
Redirection number CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction ISUP SUT IAM SUT INVITE(IAM) ACM(no indication) CPG1 CPG1 CPG2(alerting) CPG2(alerting) CPG2(alerting) COnversation REL Redirection reason CV_redirection_reason CV_redirection_reason CV_redirection_reason Redirection_reason CV_redirection_reason Redirection_reason CV_redirection_reason Redirection_reason CV_redirection_reason Redirection_reason CV_redirection_reason Redirection_reason Redirection_reason CV_redirection_reason Redirection_reason Redirecti	values			adiraction r	aaaan unaandit	ional
CPG1: Event information=progress Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction ISUP SUT IAM ACM(no indication) ACM(no indication) CPG1 CPG1 CPG2(alerting) ANM CONVERSATION CONVERSATION CONVERSATION E CONVERSATION BYE(REL)				edirection	eason uncondi	lional
Generic notification Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction Comments ISUP SUT IAM ACM(no indication) ACM(no indication) CPG1 CPG1 CPG2(alerting) ANM CMGD ANM CONVERSATION ACK CONVERSATION BYE(REL) BYE(REL)						
Call diversion information Redirection reason CV_redirection_reason Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction SUP SUT SIP-I IAM ACM(no indication) ACM(no indication) CPG1 CPG2(alerting) ANM ANM CONVERSATION CONVERSATION CONVERSATION BYE(REL) CONVERSATION REL BYE(REL)				•		
Redirection number Redirection number restriction CPG2: Event information=alerting, Redirection number restriction ISUP IAM ACM(no indication) CPG1 CPG1 CPG2(alerting) ANM CMG1 COnversation REL Redirection number restriction SIP-I INVITE(IAM) ACM(183 Session Progress(ACM) ACM(183 Session Progress(CPG) ANM ACM(184 Session Progress(CPG) ANM ACM(185 Session Progress(CPG) ANM				edirection r	asson CV radi	irection reason
Redirection number restriction CPG2: Event information=alerting, Redirection number restriction SUP IAM ACM(no indication) CPG1 CPG1 CPG2(alerting) ANM COnversation REL Redirection number restriction SIP-I INVITE(IAM) ASSESSION Progress(ACM) 183 Session Progress(CPG) 183 Session Progress(CPG) 180 Ringing(CPG) ANM COnversation REL BYE(REL)				edirection	eason Cv_ieu i	nection_reason
CPG2: Event information=alerting, Redirection number restriction ISUP SUT SIP-I IAM → INVITE(IAM) ACM(no indication) ← 183 Session Progress(ACM) CPG1 ← 183 Session Progress(CPG) CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)				ion		
ISUP SUT SIP-I IAM → INVITE(IAM) ACM(no indication) ← 183 Session Progress(ACM) CPG1 ← 183 Session Progress(CPG) CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)					number restric	ction
IAM → INVITE(IAM) ACM(no indication) ← 183 Session Progress(ACM) CPG1 ← 183 Session Progress(CPG) CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)	Comments					
ACM(no indication) ← 183 Session Progress(ACM) CPG1 ← 183 Session Progress(CPG) CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)			→			
CPG1 ← 183 Session Progress(CPG) CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)			+			
CPG2(alerting) ← 180 Ringing(CPG) ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)						
ANM ← 200 OK INVITE(ANM) → ACK Conversation REL → BYE(REL)						
→ ACK Conversation REL → BYE(REL)						
Conversation REL → BYE(REL)		r				
REL → BYE(REL)				Conversa		
		REL	→			BYE(REL)
IRLC ← I ← 1200 OK BYF(RI C)		RLC	+			200 OK BYE(RLC)

TP410006	SIP reference: RFC 3261 [4]	(Q.1912.	SUP reference: 5 [1], clauses B.6, B.7,				
			Q.73	2 [i.4], clause 2.4.2				
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion	ISUP-SIP-ISUP/SS/Call Diversion						
SIP selection								
criteria								
ISUP selection								
criteria	The left of the second			and the late of the late of				
Test purpose	Multiple diversions -Verify that a cal	II can be succe	esstully	established, if multiple				
	Several messages each containing the	call diversion	inform	nation are received as if				
	multiple forwardings have occurred.	can diversion	1 11110111	iation are received, as in				
	The CV_redirection_reason is used a	as redirection re	ason					
	The Redirection number restriction par							
	I-MCGF interworking.	amotor to page	ou on.					
SIP parameter	183 Session Progress: Content-Type:	application/ISU	P; ACM	l encapsulated in the MIME				
values	body	• •		•				
	183 Session Progress: Content-Type:	application/ISU	P; CPG	encapsulated in the MIME				
	body							
	180 Ringing: Content-Type: application	n/ISUP; CPG e	ncapsul	ated in the MIME body				
ISUP parameter	ACM: BCI Called party status indicate	or "No indication	ו"					
values	Generic notification							
	Call diversion information Redi	rection reason ι	uncondi	tional				
	Redirection number							
	CPG: Event information=progress							
	Generic notification							
	Call diversion information Redi	rection reason (v_red ک	irection_reason				
	Redirection number							
	Redirection number restriction			:				
Comments	CPG: Event information=alerting, Red	SUT	restrict	ISUP				
Comments		301	→	IAM				
			+					
	183 Session Progress(ACM) ← 183 Session Progress(CPG) ←		+	ACM(no indication) CPG1				
	100 000000 10g.000(01 0)		+					
	180 Ringing(CPG) 200 OK INVITE(ANM)			CPG2(alerting) ANM				
	ACK +			AINIVI				
	ACR	Conversation	_1					
	BYE(REL) →	Conversation	→	REL				
	200 OK BYE(RLC)		+	RLC				
	ZUU UN DIE(NLU)		_	NLO				

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

TP410007	SIP reference: RFC	3261	[4]	0.10		SUP reference: 5 [1], clauses B.6, B.7,		
						[i.4], clauses 5.0, 5.7,		
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion		۷.		[11-1], Oladoo EloiElEl 1		
SIP selection		0.0.0						
criteria								
ISUP selection								
criteria								
Test purpose	Notification procedures for a diverting call - after the diverting exchange							
	Verify that the IUT can succ							
	diversion) all the diversion in	nforma	tion from the	e diverting (exch	nange.		
	It has to be checked that the direction:	follow	ing signallir	ng informati	ion i	s passed on in the forward		
	redirecting number (se	e note	١.					
	original called number							
	redirection information		0.07,					
			ina sianallir	na informati	ion i	s passed on in the backward		
	direction:		3 - 3 -	3		,		
	redirection number res	trictio	n paramete	r (in ACM/C	CPG	/ANM/CON).		
	O-MCGF interworking.		•	,		,		
SIP parameter	INVITE: Content-Type: mult		ixed, Conte	nt-Type: ap	oplic	ation/ISUP; IAM		
values	encapsulated in the MIME b							
	200 OK INVITE: Content-Ty		ıltipart/mixe	d, Content-	Тур	e: application/ISUP ; ANM		
IOUD	encapsulated in the MIME b			. 5 "				
ISUP parameter values	IAM: Redirecting number, O ANM: Redirection address r			ber, Redire	ction	ninformation		
Comments	ISUP	estriction	SU ⁻	г		SIP-I		
Comments	IAM	→	30		→	INVITE(IAM)		
	CASE A	7			7	IIIVITE(IAWI)		
	ACM	+	I	1.	-	183 Session		
	ACIVI	•			~	Progress(ACM,no indication)		
	CPG	+			(
	ANM	+			-	180 Ringing(CPG,alerting) 200 OK INVITE(ANM)		
	ANIVI				<u>~</u> →	ACK		
	CASE B				7	ACK		
	CON	+		Τ.	-	200 OK INVITE(CON)		
	CON	_			<u>▼</u> →	ACK		
			Convers		7	AON		
	REL	→	Convers		→	BYE(REL)		
	RLC	7			<u>7</u> ←	200 OK BYE(RLC)		
NOTE: Altered in	Gateways.	•			_	ZUU ON BIE(NLC)		
INOTE. Allered In	Galeways.							

TP410008	SIP reference: RFC	3261 [4]			ISUP reference:					
				Q.1912	.5 [1], clauses B.6, B.7,					
					[i.4], clause 2.5.2.2.1					
TSS reference	ISUP-SIP-ISUP/SS/Call Dive	rsion	-							
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Notification procedures for a diverting call - after the diverting exchange									
	N				() I ()					
	Verify that the IUT can succe									
	diversion) all the diversion in									
	It has to be checked that the direction:	iollowing sign	alling inton	mation	is passed on in the forward					
	redirecting number (see	note).								
	original called number									
	redirection information.									
			alling infor	mation	is passed on in the backward					
	direction:	0 0	J		•					
	redirection number rest	riction param	eter (in AC	CM/CPG	G/ANM/CON).					
	I-MCGF interworking.									
SIP parameter	INVITE: Content-Type: multip		ntent-Type	e: applic	cation/ISUP; IAM					
values	encapsulated in the MIME bo									
	200 OK INVITE: Content-Typ		ixed, Cont	ent-Typ	e: application/ISUP ; ANM					
10115	encapsulated in the MIME bo									
ISUP parameter	IAM: Redirecting number, Or		umber, Re	directio	n information					
values	ANM: Redirection address re		N. I.T.	1	IOLID					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM) CASE A	→		→	IAM					
	183 Session	+		+	ACM(no indication)					
	Progress(ACM)	~			ACM(no indication)					
	180 Ringing(CPG)	+		+	CPG(alerting)					
	200 OK INVITE(ANM)	`		÷	ANM					
	ACK	`		_	AINIVI					
	CASE B				1					
	200 OK INVITE(CON)									
	ACK +									
	7.0.1	-	ersation	<u> </u>						
	BYE(REL)	→	Juli	→	REL					
	200 OK BYE(RLC)	+		+	RLC					
NOTE: Altered in	Gateways.	<u> </u>			1.1.2					

TP410009	SIP reference: RFC	3261	[4]	-	SUP reference:				
		Q.1912.5 [1], clauses B.6, B.7, Q.731 [i.2], clause 3.5.2.4.1							
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion			[···], ·······				
SIP selection criteria									
ISUP selection criteria	PICS 10/1 AND PICS 1/7								
Test purpose	Original called number in the outgoing international gateway Verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined for CLIP: Discarding the original called number if case of bilateral agreements. The PTC will send an IAM with OriCdNb.								
SIP parameter	INVITE: Content-Type: mult	tipart/m	ixed, Conten	t-Type: applic	ation/ISUP; IAM containing				
values	an Original called number e	ncapsu	lated in the N	/IME body					
ISUP parameter	IAM: No original called num	ber pre	esent						
values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)								
	ACK →								
			Conversa	tion					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP410010	SIP reference: RFC	3261	[4]		ISUP reference:					
					2.5 [1], clauses B.6, B.7,					
	Q.731 [i.2], clause 4.5.2.1.1									
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion/								
SIP selection										
criteria										
ISUP selection criteria	PICS 1/7									
Test purpose	Original called number in									
					nanipulates the original called					
	number according to the pr									
	Converting the original				format with transparent					
	transferral of address pr									
	The PTC will send an IAM v									
SIP parameter					lication/ISUP; IAM containing					
values	an Original called number of				ne MIME body					
ISUP parameter	IAM: Original called number	r "Intern	national nun	nber"						
values		1			l.a					
Comments	SIP-I	_	SUT		ISUP					
	INVITE(IAM)	→		→	17 (11)					
	180 Ringing(ACM)	+		+	,					
	` /	200 OK INVITE(ANM) ← ANM								
	ACK →									
		Conversation								
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP410011	SIP reference: RFC	3261	[4]		IS	SUP reference:				
				Q.1	912.5	5 [1], clauses B.6, 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 pr									
	Discarding the original									
	The PTC will send an IAM v	vith an	"address no	t available	e" Ori	CdNb.				
SIP parameter	INVITE: Content-Type: mult									
values	an Original called number c			psulated ii	n the	MIME body				
ISUP parameter	IAM: No original called num	ber pre	sent							
values										
Comments	SIP-I		SUT	•		ISUP				
	INVITE(IAM)	→			→	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)	200 OK INVITE(ANM) ← ANM								
	ACK	→								
			Convers	ation						
	BYE(REL)	→			→	REL				
	200 OK BYE(RLC)	+			+	RLC				

TP410012	SIP reference: RF	C 3261	[4]	ISUP reference: Q.1912.5 [1], clauses B.6, 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 1/8								
Test purpose	Verify that the incoming int numbe r according to the p	Original called number in the incoming international gateway Verify that the incoming international gateway checks and manipulates the original called number according to the procedures as defined for CLIP. Applicable tests: Converting the original called number to national format, if necessary (own country							
SIP parameter values	INVITE: Content-Type: mu an Original called number				cation/ISUP; IAM containing				
ISUP parameter values	IAM: Original called number				,				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversat	ion					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP410013	SIP reference: RF	C 3261	[4]	ISUP reference: Q.1912.5 [1], clauses B.6, 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	PICS 10/2 AND PICS 1/7							
criteria								
Test purpose	Redirecting number in th							
	Verify that the outgoing inte				anipulates the redirecting			
	number according to the p Discarding the redirect				reements.			
SIP parameter	INVITE: Content-Type: mu	ltipart/m	ixed, Content-	Type: applic	cation/ISUP; IAM containing a			
values	Redirecting number encaps	sulated	in the MIME b	ody	_			
ISUP parameter values	IAM: No Redirecting number	er prese	ent					
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK →							
			Conversati	on				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP410014	SIP reference: RF	C 3261	[4]	ISUP reference: Q.1912.5 [1], clauses B.6, B.7, Q.731 [i.2], clause 4.5.2.1.1					
TSS reference	ISUP-SIP-ISUP/SS/Call Di	iversion							
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Verify that the outgoing int number according to the process Discarding the redirection.	edirecting number in the outgoing international gateway erify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP: Discarding the redirecting number, if the address is marked not available. The PTC will send an IAM with an "address not available" RgNb.							
SIP parameter	INVITE: Content-Type: mu	ıltipart/m	ixed, Content	-Type: applic	ation/ISUP ; IAM containing a				
values	Redirecting number encap	sulated	in the MIME b	ody					
ISUP parameter	IAM: No Redirecting numb	er prese	ent						
values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
			Conversat	ion					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP410015	SIP reference: RFC	3261	[4]	Q	912. 2.732	SUP reference: 5 [1], clauses B.6, B.7, [i.4], clause 2.5.2.3, [i.2], clause 3.5.2.3				
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion									
SIP selection criteria										
ISUP selection criteria	PICS 1/7									
Test purpose	Redirecting number in the outgoing international gateway Verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP: Converting the redirecting number to international format with transparent transferral of address presentation restriction indicator. The PTC will send an IAM with a national significant RgNb.									
SIP parameter values	INVITE: Content-Type: mult Redirecting number "Nation					ation/ISUP; IAM containing a				
ISUP parameter values	IAM: Redirecting number "Ir				ile ivi	IIVIE BOUY				
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				

TP410016	SIP reference: RFC	-	4]	Q.7	12.5 '32	SUP reference: [1], clauses B.6, B.7, [i.4], clause 2.5.2.3, [i.2], clause 3.5.2.3				
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion/								
SIP selection criteria										
ISUP selection criteria	PICS 1/8									
Test purpose	Redirecting number in the incoming international gateway Verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP: Converting the redirecting number to national format, if necessary (own country code). The PTC will send an IAM with RgNb.									
SIP parameter values	INVITE: Content-Type: mult a Redirecting number "Inter					ation/ISUP;; IAM containing				
ISUP parameter values	IAM: Redirecting number "n			ncapsulated	<i>1</i> 1111	the MilNic body				
Comments	SIP-I		SUT			ISUP				
	INVITE(IAM)	→		-	•	IAM				
	180 Ringing(ACM)	+		•		ACM				
	200 OK INVITE(ANM)									
	ACK	→								
	Conversation									
	BYE(REL)	→		-)	REL				
	200 OK BYE(RLC)	+		•	•	RLC				

TP410017	SIP reference: RF	FC 3261	[4]	Q.1912 Q.732	SUP reference: .5 [1], clauses B.6, B.7, 2 [i.4], clause 2.5.2.3, 1 [i.2], clause 3.5.2.3						
TSS reference	ISUP-SIP-ISUP/SS/Call D	ISUP-SIP-ISUP/SS/Call Diversion									
SIP selection criteria											
ISUP selection criteria	PICS 1/8 AND 10/4										
Test purpose	Verify that the incoming in numbe r according to the	Redirecting number in the incoming international gateway Verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP: Adding a prefix to an international redirecting number. The PTC will pend on IAM with Death									
SIP parameter					cation/ISUP ; IAM containing a						
values	Redirecting number encap	osulated	in the MIME I	oody							
ISUP parameter values	IAM: Redirecting number										
Comments	SIP-I		SUT		ISUP						
	INVITE(IAM)	→		→	IAM						
	180 Ringing(ACM)	+		+	ACM						
	200 OK INVITE(ANM)										
	ACK										
			Conversa	ion							
	BYE(REL)	→		→	REL						
	200 OK BYE(RLC)	+		+	RLC						

TP410018	SIP reference: RF		[4]	Q.7	ISUP reference: 2.5 [1], clauses B.6, B.7, 32 [i.4], clause 2.5.2.4, 31 [i.2], clause 3.5.2.4
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion			
SIP selection criteria					
ISUP selection criteria	PICS 10/5 AND PICS 1/8				
Test purpose	Redirection number in the Verify that the incoming in number according to the publication discarding the redirection removes the redirection.	ternatior procedur tion nun	nal gateway of es defined for nber in case	checks and i or COLP: of bilateral a	manipulates the redirection agreements;
SIP parameter values	number encapsulated in the 200 OK INVITE: Content-	ne MIMÉ Type: mu	body oltipart/mixed	I, Content-Ty	CM containing a Redirection ype: application/ISUP; ANM apsulated in the MIME body
ISUP parameter values	ACM: Called party status= Generic notification Call diversion infort No Redirection num ANM: No Redirection num	n mation R nber	edirection re		nditional
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	tion	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP410019	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], clauses B.6, B.7,					
						32 [i.4], clause 2.5.2.3,			
				Q.731 [i.2], clause 3.5.2.3					
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion							
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Redirection number in the outgoing international gateway Verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures defined for COLP: Converting the redirection number to national format, if necessary (own country code): 1. the PTC will provide the necessary stimulus; 2. ACM with CDInf, GenNot = "call is diverting" and an international RnNb with own CC.								
SIP parameter						M containing a Redirection			
values	number "International numb	er" end	capsulated i	n the M	IIME b	ody			
ISUP parameter	ACM: Called party status=n	o indica	ation						
values	Generic notification								
	Call diversion inform				uncon	ditional			
_	Redirection number	"Nation				I			
Comments	ISUP		SUT			SIP-I			
	IAM	→			<u>→</u>	INVITE(IAM)			
	ACM(no indication)	+			<u>+</u>	183 Session Progress(ACM)			
	CPG	+			<u>+</u>	180 Ringing(CPG)			
	ANM	+			<u>←</u>	200 OK INVITE(ANM)			
					ACK				
			Conversa	tion					
	REL	→			→	BYE(REL)			
	RLC	+			←	200 OK BYE(RLC)			

TP410020	SIP reference: RFC	3261	[4]	Q.73	ISUP reference: 2.5 [1], clauses B.6, 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	PICS 1/8							
Test purpose	Redirection number in the incoming international gateway Verify that the incoming international gateway checks and manipulates the redirection number according to the procedures defined for COLP: Converting the redirection number to international format.								
SIP parameter values	183 Session Progress: Content-Type: application/ISUP; ACM containing a Redirection number "National number" encapsulated in the MIME body								
ISUP parameter	ACM: Called party status=n			mivic body					
values	Generic notification Call diversion information Redirection reason unconditional Redirection number "International number"								
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				
			Conversation	on					
	REL	→		→	BYE(REL)				
	RLC	+	_	+	200 OK BYE(RLC)				

TP410021	SIP reference: RFC	3261	[4]		ISUP reference: Q.1912.5 [1], clauses B.6, B.7, Q.731 [i.2], clause 5.5.2.3.1						
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ISUP-SIP-ISUP/SS/Call Diversion									
SIP selection criteria											
ISUP selection criteria	PICS 1/8 AND PICS 10/6										
Test purpose	Redirection number in the outgoing international gateway Verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures defined for COLP: Adding a prefix to an international redirection number. The PTC will provide the necessary stimulus.ACM with CDInf, GenNot = "call is diverting" and an international RnNb with foreign country code.										
SIP parameter	183 Session Progress: Con	tent-Ty	pe: application	/ISUP; AC	M containing a Redirection						
values	number "International numb	er" end	apsulated in th	ne MIME b	oody						
ISUP parameter	ACM: Called party status=n	o indica	ation								
values	Generic notification Call diversion information Redirection reason unconditional Redirection 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									
			Conversatio	n							
	REL	→		→	BYE(REL)						
	RLC	+		+	200 OK BYE(RLC)						

5.3.11 CONF

TP411001	SIP reference: RFC 3261 [4	ISUP reference: 912.5 [1], clause B.14, 34 [i.7], clause 1.6.15			
TSS reference	ISUP-SIP-ISUP/SS/CONF				
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Generic notification transfer "confe				
	To verify that the IUT can successing CPG message:	rully trar	nster/deliver the re	qui	red notifications in/from the
	1. assist a call set up from ISUP t	o SID I:			
	2. check that the notification "conf		oetabliehed" ie roc	مند	ed in the CPG from
	conferee at SIP-I;	CICILCE	established is let	GIV	ed in the Or G Holli
	3. check the notification "other pa	rtv adde	ed" in the CPG		
	O-MGCF interworking.	y adde	, a iii iiio oi o.		
SIP parameter	INFO/INVITE: Content-Type: multi	part/mix	ed. Content-Type:	ar	pplication/ISUP : CPG
values	encapsulated in the MIME body		., , po.	~~	,
ISUP parameter	CPG: Generic notification: confere	nce esta	ablished		
values	CPG: Generic notification: other pa	arty add	ed		
Comments	ISUP		SUT		SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	+	•	(180 Ringing(ACM)
	ANM	+	•	(200 OK INVITE(ANM)
				→	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)	→	-)	INVITE(CPG,sendrecv)
				(200 OK INVITE(sendrecv)
			•)	ACK
	CASE B				
	CPG(other party added)	→)	INFO(CPG)
			•	(200 OK (INFO)
	REL	→		<u>→</u>	BYE(REL)
	RLC	+		(200 OK BYE(RLC)

TP411002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CON	F							
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Generic notification trans	fer "co	onference estab	lished	d" and "other party added"				
	To verify that the IUT car	n succ	essfully transfer	/deliv	er the required notifications in/from the				
	CPG message:								
	1. Assist a call set up fro	om SII	P-I to ISUP;						
	2. Check that the notific	ation '	conference esta	ablish	ed" is received in the CPG from				
	conferee at the ISUP								
	 Check the notification I-MGCF interworking. 		r party added" ii	n the	CPG.				
SIP parameter			nultipart/mixed. (Conte	ent-Type: application/ISUP ; CPG				
values	encapsulated in the MIM				7/				
ISUP parameter	CPG: Generic notification	n: conf	erence establisl	hed					
values	CPG: Generic notification	n: othe	r 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								
	INVITE (CPG)	→		→	CPG(conference established)				
	200 OK INVITE	+							
	ACK	→							
	CASE A								
	INFO(CPG)	→		→	CPG(other party added)				
	200 OK INFO	+							
	CASE B	<u> </u>		 					
	INVITE (CPG)	→		→	CPG(other party added)				
	200 OK INFO	(1					
	ACK	→		<u> </u>					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	←		←	RLC				

TP411003	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/CONF						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Generic notification transfer "conferen	nce esta	blished" and "iso	olate	d"		
	To verify that the IUT can successfull CPG message: 1. Assist a call set up from ISUP to 3 2. Check that the notification "conference on the SIP-I; 3. Check the notification "isolated" in O-MGCF interworking.	SIP-I; ence es	tablished" is rec				
SIP parameter	INFO/INVITE: Content-Type: multipa	rt/miyad	Content-Type:	annli	cation/ISLIP · CPG		
values	encapsulated in the MIME body	i vii ii AGU,	Content-Type.	αρμιι	Janon/1001 , OF G		
ISUP parameter	CPG: Generic notification: conference	establi	shed				
values	CPG: Generic notification: isolated	o odiabli	oniou				
Comments	ISUP		SUT		SIP-I		
Commonts	IAM	→		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	È		÷	200 OK INVITE(ANM)		
	AINIVI			→	ACK		
			Conversation	7	ACK		
	CASE A		Conversation	ı			
					INIEO(ODO)		
	CPG(conference established)	→		→	INFO(CPG)		
				~	200 OK INFO		
					INIEG (OBO)		
	CPG(isolated)	→		→	INFO(CPG)		
				+	200 OK INFO		
	DEL			_	DVE(DEL)		
	REL	→		→	BYE(REL)		
	RLC	~		+	200 OK BYE(RLC)		
	CASE B			_	IN 11 (17 (10 DO)		
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)		
				+	200 OK		
				_	INVITE(sendrecv)		
				→	ACK		
				<u> </u>			
	CPG(isolated)	→		→	INVITE(CPG,sendrecv)		
				+	200 OK		
				<u> </u>	INVITE(sendrecv)		
				→	ACK		
				<u> </u>			
	REL	→		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP411004	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15						
TSS reference	ISUP-SIP-ISUP/SS/CON	ISUP-SIP-ISUP/SS/CONF								
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Generic notification trans	fer "co	onference estab	lished	d" and "isolated"					
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message: 1. assist a call set up from SIP-I to ISUP; 2. check that the notification "conference established" is received in the CPG from conferee at SIP-I; 3. check the notification "isolated" in the CPG.									
SIP parameter	I-MGCF interworking. INFO/INVITE: Content-Ty		ultipart/mixed (Conte	ent-Type: application/ISUP ; CPG					
values	encapsulated in the MIME			001110	Type: application (1881)					
ISUP parameter	CPG: Generic notification	: conf	erence establisi	hed						
values	CPG: Generic notification									
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] 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 transfer "confere								
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the 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 "reattached" in the CPG. O-MGCF interworking.								
SIP parameter	INFO/INVITE: Content-Type: multipa	art/mixed.	Content-Type: ap	plication/ISUP : CPG					
values	encapsulated in the MIME body		- 3	,					
ISUP parameter values	CPG: Generic notification: conference established CPG: Generic notification: isolated CPG: Generic notification: reattached								
Comments	ISUP		SUT	SIP-I					
	IAM	→	7	INVITE(IAM)					
	ACM	+	•	180 Ringing(ACM)					
	ANM	+	•	200 OK INVITE(ANM)					
			-						
	Conversation								
	CASE A								
	CPG(conference established)	→	-	INFO(CPG)					
	Ci O(conterence established)		4						
				200 OK INFO					
	CDC/incloted)	→	-	INFO(CBC)					
	CPG(isolated)	7		()					
			7	200 OK INFO					
	000/ 11 10			NIEC(000)					
	CPG(reattached)	→		INFO(CPG)					
			•	200 OK INFO					
	REL	→	1	(/					
	RLC	←	•	200 OK BYE(RLC)					
	CASE B								
	CPG(conference established)	→	-	INVITE(CPG,sendrecv)					
	,		•	= 200 OK					
				INVITE(sendrecv					
			-						
	CPG(isolated)	→	-	INVITE(CPG,sendonly)					
		- - -	•						
				INVITE(recvonly)					
			-						
				, , , , , ,					
	CPG(reattached)	→	-	INFO(CPG,sendrecv)					
	CPG(reattached)	7							
			•	_00 0.1					
				INVITE(sendrecv)					
				ACK					
			<u> </u>						
	REL	→	-						
	RLC	+	(€	200 OK BYE(RLC)					

TP411006	SIP reference: R	FC 32	61 [4]	ISUP reference:					
11 411000	Sir Telefelice. Ki C 3201 [4]				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	rer "co	interence estab	olisned	d", "isolated" and "reattached"				
	To verify that the ILIT can	SHCC	essfully transfer	r/deliv	er the required notifications in/from the				
	CPG message:	34000	boolding transici	i/uciiv	or the required flotifications in morn the				
	Assist a call set up fro	m SIF	P-I to ISUP;						
				ablish	ed" is received in the CPG from				
	conferee at SIP-I;								
	Check the notification	"reatt	ached" in the C	PG.					
	I-MGCF interworking.								
SIP parameter				Conte	ent-Type: application/ISUP ; CPG				
values ISUP parameter	encapsulated in the MIME CPG: Generic notification			hod					
values	CPG: Generic notification CPG: Generic notification			ned					
values	CPG: Generic notification								
Comments	SIP-I	i. Icali	SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(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	+							
		<u> </u>							
	INFO(CPG)	→		→	CPG(reattached)				
	200 OK INFO	+							
	DVE(DEL)	_			DEL				
	BYE(REL) 200 OK BYE(RLC)	→		→	REL RLC				
	CASE B			+	INLO				
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)				
	200 OK	-		+*	C. Stockholokolokolokolokolokolokolokolokolokol				
	INVITE(sendrecv)								
	ACK	→							
	INVITE(CPG,sendonly)	→		→	CPG(isolated)				
	200 OK	+							
	INVITE(recvonly)	<u> </u>							
	ACK	→							
	IN VITE (ODC				000("				
	INVITE(CPG,sendrecv)	→		→	CPG(reattached)				
	200 OK	7							
	INVITE(sendrecv) ACK	→							
	AUN	17			+				
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				
	1200 ON DIE(NLO)				INLO				

TP411007	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/CONF				1,			
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Generic notification transfer "conference disconnected" To verify that the IUT can successfully CPG message: 1. assist a call set up from ISUP to SII 2. check the notification "other party description"	transfe P-I;	er/deliver the rec	quired				
	O-MGCF interworking.							
SIP parameter	INFO/INVITE: Content-Type: multipart/	mixed,	Content-Type:	appli	cation/ISUP ; CPG			
values	encapsulated in the MIME body							
ISUP parameter	CPG: Generic notification: conference		shed					
values	CPG: Generic notification: other party a							
Commonte	CPG: Generic notification: other party of	usconr		1	CID I			
Comments	ISUP	+	SUT	_	SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		<u>+</u>	200 OK INVITE(ANM)			
				→	ACK			
	Conversation							
	CASE A	+_		_				
	CPG(conference established)	→		→	INFO(CPG)			
				+	200 OK INFO			
				<u> </u>				
	CPG(other party added)	→		→	INFO(CPG)			
				+	200 OK INFO			
				<u> </u>				
	CPG(other party disconnected)	→		→	INFO(CPG)			
				+	200 OK INFO			
				<u> </u>				
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			
	CASE B	+		<u> </u>	WW. (1777 (277 2) ; ; ;			
	CPG(conference established)	→		→	INVITE(CPG,sendrecv)			
				+	200 OK			
					INVITE(sendrecv)			
		-		→	ACK			
	000/ #	1		-	IN II / ITE / C.D. C.			
	CPG(other party added)	→		→	INVITE(CPG,			
		-		1	sendrecv)			
				+	200 OK			
				_	INVITE(sendrecv)			
		-		→	ACK			
	000/ #	+_		_	INDUSTRIANCE			
	CPG(other party disconnected)	→		→	INVITE(CPG,			
		-		-	sendrecv)			
				+	200 OK INVITE			
					(sendrecv)			
				→	ACK			
		+_		<u> </u>				
	REL	→		→	BYE(REL)			
	RLC	+		←	200 OK BYE(RLC)			

TP411008	SIP reference: RI	FC 326	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	F					
SIP selection							
criteria							
ISUP selection							
criteria	0			l' - I	III		
Test purpose	disconnected"	er "coi	nterence estab	iisned	l", "other party added" and "other party		
	To verify that the IUT can	succe	ssfully transfer	/deliv	er the required notifications in/from the		
	CPG message:		,		•		
	1. Assist a call set up fro						
	2. Check the notification	"other	party disconne	ected'	' in the CPG.		
	I-MGCF interworking.						
SIP parameter				Conte	ent-Type: application/ISUP ; CPG		
values	encapsulated in the MIME						
ISUP parameter values	CPG: Generic notification CPG: Generic notification	: other	party added				
Comments	CPG: Generic notification SIP-I	: otner	party disconne	cted	ISUP		
Comments	INVITE(IAM)	→	301	→	IAM		
	180 Ringing(ACM)	-		7	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→		_	ANIVI		
	ACK		Conversation				
	CASE A	<u> </u>	Conversation				
	INFO(CPG)	→		→	CPG(conference established)		
	200 OK INFO	-		 	Or O(conterence established)		
	200 011 111 0						
	INFO(CPG)	→		→	CPG(other party added)		
	200 OK INFO	+					
	INFO(CPG)	→		→	CPG(other party disconnected)		
	200 OK INFO	+					
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	-		É	RLC		
	CASE B	-		Ť			
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)		
	200 OK	+					
	INVITE(sendrecv)			<u>L</u>			
	ACK	→					
				<u> </u>			
	INVITE(CPG,sendrecv)	→		→	CPG(other party added)		
	200 OK	+					
	INVITE(sendrecv)	→		1			
	ACK	7		+			
	INVITE(CPG,sendrecv)	→		→	CPG(other party disconnected)		
	200 OK	+		Ť	C. Clarici Party allocatinotical		
	INVITE(sendrecv)	-					
	ACK	→					
				1			
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		
•					•		

TP411009	SIP reference: RFC 3261 [4]		Q.1912.5	P reference: [1], clause B.14, 7], clause 1.6.15
TSS reference	ISUP-SIP-ISUP/SS/CONF			
SIP selection				
criteria				
ISUP selection				
criteria				
Test purpose	Generic notification transfer "confere To verify that the IUT can successful			
	CPG message:	y transic	i/deliver the require	a notifications in morn the
	Assist a call set up from ISUP to a	SIP-I:		
	2. Check that the notification "confe		tablished" is receive	ed in the CPG from
	conferee at ISUP;			
	Release the conference.			
	O-MGCF interworking.			
SIP parameter	INFO/INVITE: Content-Type: multipa	rt/mixed,	Content-Type: app	lication/ISUP ; CPG
values	encapsulated in the MIME body			
ISUP parameter values	CPG: Generic notification: conferenc	e establis		
Comments	ISUP		SUT	SIP-I
	IAM	→	→	INVITE(IAM)
	ACM	+	+	3 3(- /
	ANM	+	+	
			→	ACK
			Conversation	
	CASE A			
	CPG(conference established)	→	→	INFO(CPG)
			+	200 OK INFO
	551			D.(E(DEL)
	REL	→	→	()
	RLC	+	+	200 OK BYE(RLC)
	CASE B			INIVITE (CDC a and a z z z)
	CPG(conference established)	→	→	= (3: 330:14:331)
				_00 0.1
			→	INVITE(sendrecv) ACK
			7	AUN
	REL	→	→	BYE(REL)
	RLC	+	+	·
	INLO		~	200 ON DIE(NLC)

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 trans	er "co	onference estab	lished	d", and disconnect the conference			
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message: 1. Assist a call set up from SIP-I to ISUP; 2. Check that the notification "conference established" is received in the INFO(CPG) from conferee at SIP-I; 3. Release the conference. I-MGCF interworking.							
SIP parameter	INFO/INVITE: Content-Ty	/pe: m	ultipart/mixed,	Conte	ent-Type: application/ISUP ; CPG			
values	encapsulated in the MIME	body	<i>'</i>		,,			
ISUP parameter	CPG: Generic notification	: conf	erence establis	hed				
values		,						
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	+						
	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]				SUP reference:				
			Q.1912	.5 [1]	, clauses 5.4.3, 5.4.3.2, 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 transfe	r numb	er for the	activ	e user				
	Verify that the IUT is able to send the								
	the service activation parameter "call			call tra	ansfer number, received in the				
	ISUP FAC, in an INFO request for the	active	user.						
	O-MGCF interworking.								
SIP parameter	INFO: Content-Type: application/ISUF	P; FAC	encapsula	ted in	the MIME body				
values									
ISUP parameter	FAC: Generic notification=call transfe	r active	, Service a	ctivat	ion=call transfer, Call transfer				
values	number (PIXIT)								
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	←		+	200 OK INVITE(ANM)				
				→	ACK				
	Conversation								
	FAC(call transfer active, CTNb) → INFO(FAC)								
				+	200 OK INFO				
	REL	→		→	BYE(REL)				
	RLC	←		+	200 OK BYE(RLC)				

TP412002	SIP reference: RF	C 3261 I	[4]	ISUP reference:				
11 412002	On reference. It	0 020.		Q.191	12.5 [1], clauses 5.4.3, 5.4.3.2, B.8,			
				٠٠	Q.734 [i.7], clause 1.6.15			
TSS reference	ISUP-SIP-ISUP/SS/ECT		Į.					
SIP selection criteria								
ISUP selection criteria								
Test purpose	Capability of sending the	e call tra	nsfer numbe	er for	the active user			
	the service activation para	meter "c	all transfer" a	nd the	ation parameter "Call transfer active", e call transfer number, received in the ISUP FAC for the active user.			
SIP parameter values	INFO: Content-Type: appli	cation/IS	SUP; FAC end	capsu	lated in the Message body			
ISUP parameter values	FAC: Generic notification= number (PIXIT)	call trans	sfer active, So	ervice	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]		ISUP reference: 5 [1], clauses 5.4.3, 5.4.3.2, B.8, 2.7 [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 the call transfer number for the held user Verify that the IUT is able to transfer the call transfer number received in an ISUP FAC and sent in INFO request containing the FAC for the held user. O-MGCF interworking.								
SIP parameter	INVITE: Content-Type: multipart/mix	red, Con	tent-Type: ap	pplication/ISUP ; CPG					
values	encapsulated in the MIME body INFO: Content-Type: application/ISI new session with new INVITE to CT								
ISUP parameter	CPG: Event indicator=progress, Ge								
values	FAC: Generic notification=call trans number(PIXIT)	fer active		tivation=call transfer, Call transfer					
Comments	ISUP		SUT	SIP-I					
	IAM	→		→ INVITE(IAM)					
	ACM	+		← 180 Ringing(ACM)					
	ANM	←		← 200 OK INVITE(ANM)					
				→ ACK					
			onversation						
	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, 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	Verify that the IUT is able to	Capability of sending the call transfer number for the active user Verify that the IUT is able to transfer the call transfer number received in an ISUP FAC and sent in INFO request containing the FAC for the held user. LMCCF interverking							
SIP parameter values	INVITE: Content-Type: multi encapsulated in the MIME b INFO: Content-Type: applica	ody ation/IS	SUP; FAC e	ncapsul	lated in the MIME body				
ISUP parameter values	CPG: Event indicator=progre	ess, G	eneric notifi	cation=l					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
		-	Conversati	on					
	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	ISUP reference:						
		•		1], clauses 5.4.3, 5.4.3.2, 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	ced, Conf	tent-Type: app	olication/ISUP; CPG				
values	encapsulated in the MIME body							
	INFO: Content-Type: application/ISI	JP; FAC	encapsulated	in the MIME body				
	INFO: Content-Type: application/ISI	JP; LOP	encapsulated	in the MIME body				
ISUP parameter	CPG: Event indicator=progress, Ge	neric noti						
values	LOP: request: Call transfer reference							
	LOP: response: Call transfer reference							
	FAC: Generic notification=call trans	fer active	, Service activ	ation=call transfer, Call transfer				
	number(PIXIT)							
Comments	ISUP		SUT	SIP-I				
	IAM	→	-2	INVITE(IAM)				
	ACM	+	•	180 Ringing(ACM)				
	ANM	+	•	200 OK INVITE(ANM)				
			-					
		Co	onversation					
	CPG(hold)	→	1 -3	INVITE(CPG, sendonly)				
	Cr C(noid)	- 1		200 OK INVITE(recvonly)				
		+						
				ACK				
	LOP(request)	→	-	INFO(LOP)				
	LOP(request)	7						
				200 OK INFO				
	1.00/		<u> </u>	, III (1 0 D)				
	LOP(response)	+		INFO(LOP)				
				200 OK INFO				
	FAC(call transfer active, CTNb)	→	-					
			•	200 OK INFO				
			-	(- ()				
			•	200 OK INVITE(sendrecv)				
			-	ACK				
			ı -	, ,				
				, non				
	REL	→	-3					

TP412010	SIP reference: RFC 3261 [4]				ISUP reference:				
				Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, 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, Conte	ent-Type	e: application/ISUP ; CPG				
values	encapsulated in the MIME b INFO: Content-Type: applica INFO: Content-Type: applica	ation/IS							
ISUP parameter	CPG: Event indicator=progre								
values	LOP: request: Call transfer r LOP: response: Call transfer FAC: Generic notification=canumber(PIXIT)	r refer	ence sfer active,	Service	activation=call transfer, Call transfer				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	←		←	ANM				
	ACK	→							
			Conversati	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	→							
	INICO(EAC)	→		→	EAC(call transfer active CTNIb)				
	INFO(FAC) 200 OK INFO	 7		7	FAC(call transfer active, CTNb)				
	200 OK INFO	_		-					
	INVITE(sendrecv)	→		+					
	200 OK INVITE(sendrecv)	+							
	ACK	→							
	7.010								
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	-		+	RLC				
	1200 OK DIL(IKLO)		1	•	INLO				

TP412011	SIP reference: RFC 3261 [4]			ISUP reference: [1], clauses 5.4.3, 5.4.3.2, 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 - 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 not	fication=hold	,				
Comments	ISUP		SUT	SIP-I				
	IAM	→	7	► INVITE(IAM)				
	ACM	←	•	180 Ringing(ACM)				
	ANM	←	•	200 OK INVITE(ANM)				
			7	→ ACK				
		Č	onversation					
	CPG(hold)	→	7	► INVITE(CPG, sendonly)				
			•	200 OK INVITE(recvonly)				
			-	▶ ACK				
	LOP(request)	→	-	INFO(LOP)				
			•					
	REL	→	-	► BYE(REL)				
	RLC	-	•	= : = (: :==)				

TP412012	SIP reference: RFC 3261 [4]		[4]	ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, I 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 i			ation=	hold			
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
			Conversatio	n				
	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]			ISUP reference:				
], clauses 5.4.3, 5.4.3.2, B.8, [i.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	Loop prevention procedure - successful on timer expiry Verify that the SUT is able to transfer the loop request received in an ISUP LOP in an INFO request containing the LOP message. Verify that the connection is successful if the loop detection procedure is unsuccessful. O-MGCF interworking.							
SIP parameter	INVITE: Content-Type: multipart/mixe	d, Con	tent-Type: appl	ication/ISUP ; CPG				
values	encapsulated in the MIME body			·				
	INFO: Content-Type: application/ISU							
	INFO: Content-Type: application/ISU			n the MIME body				
ISUP parameter	CPG: Event indicator=progress, Gene		ification=hold					
values	LOP: request: Call transfer reference							
	FAC: Generic notification=call transfe	r active	e, Service activa	ation=call transfer, Call transfer				
Cammanta	number(PIXIT)		SUT	SIP-I				
Comments	IAM	+						
		→	→					
	ACM ANM	+	-					
	AINIVI	_	→ ·	` '				
				ACK				
	CPG(hold)	→ U	onversation	INVITE(CPG, sendonly)				
	CPG(floid)	7						
			←					
			7	ACK				
	LOP(request)	→	→	INFO(LOP)				
	LOF (Tequest)	7	-					
		+ +		200 OK INI O				
	FAC(call transfer active, CTNb)	→	→	INFO(FAC)				
	FAC(call transfer active, CTNb)	+						
		+ +		200 OK INI O				
		+ +	→	INVITE(sendrecv)				
		1 1	· · ·					
			→					
		1		7.01				
	REL	→	→	BYE(REL)				
	RLC	-	-					
	INCO	1		1200 ON DIE(NEO)				

TP412014	SIP reference: RFC	3261	[4]	ISUP reference:					
				Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, 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 messag	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. LMGCF interverking							
SIP parameter	INVITE: Content-Type: mult	ipart/m	ixed, Conten	nt-Type	e: application/ISUP ; CPG				
values	encapsulated in the MIME b	ody							
	INFO: Content-Type: application in INFO: Content-Ty								
ISUP parameter	CPG: Event indicator=progr								
values	LOP: request: Call transfer r FAC: Generic notification=call			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	→							
			Conversatio	n					
	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				

TP412015	SIP reference: RFC 3261 [4		ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, B.8, Q.732.7 [i.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 transfetransfer, alerting" and the service a	Facility message with generic notification sent to the remote user Verify that the SUT is able to transfer the generic notification "call transfer, active" or "call transfer, alerting" and the service activation parameter set to "call transfer" received in an ISUP FAC in a SIP INFO request containing the ISUP FAC. O-MGCF interworking.							
SIP parameter	INVITE: Content-Type: multipart/mix								
values	encapsulated in the MIME body								
ISUP parameter values	CPG: Event indicator=progress, Ge FAC: Generic notification=call trans number(PIXIT)			ation=call transfer, Call transfer					
Comments	ISUP		SUT	SIP-I					
	IAM	→	→	INVITE(IAM)					
	ACM	+	+	180 Ringing(ACM)					
	ANM	+	+	200 OK INVITE(ANM)					
			→	ACK					
		Co	onversation						
	CPG(hold)	→	→	INVITE(CPG, sendonly)					
			+						
			→	ACK					
	FAC(call transfer active, CTNb)	→	→						
			(200 OK INFO					
			→	= (00:10:001)					
			←						
			→	ACK					
	REL	→	→	()					
	RLC	+	←	200 OK BYE(RLC)					

TP412016	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, 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 "call transfer, active" or "call "call transfer" received in a S	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 INFO: Content-Type: applica	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	CPG: Event indicator=progre							
values	FAC: Generic notification=canumber(PIXIT)	all 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				
	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]		[1],	SUP reference: , clauses 5.4.3, 5.4.3.2, B.8, 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	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/IS	JP; CPG	encapsulated	d in	the MIME body				
ISUP parameter	CPG: Generic notification=call trans	fer active	e, Service act	ivat	ion=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)				
			•	<u> </u>	200 OK INFO				
	ANM	+		(200 OK INVITE(ANM)				
				→	ACK				
		C	onversation						
	REL	→		→	BYE(REL)				
	RLC	←	•	(200 OK BYE(RLC)				

TP412018	SIP reference: RFC	nce: RFC 3261 [4]			ISUP reference: 12.5 [1], clauses 5.4.3, 5.4.3.2, 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 "call transfer, active" and the							
SIP parameter	INVITE: Content-Type: mult	ipart/m	ixed. Conte	nt-Type	e: application/ISUP : CPG			
values	encapsulated in the MIME b			, pc				
	INFO: Content-Type: applica		SUP: CPG e	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	→						
		(Conversati	on				
	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]			ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, 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 exchange ren containing a FAC or CPG be "presentation restricted" and	Call transfer number - removal of number Verify that the exchange removes the call transfer number in the SIP-I INFO request containing a FAC or CPG before sending it to the next exchange, if its indicator is set to "presentation restricted" and there is no bilateral agreement to transfer the number.							
SIP parameter	INVITE: Content-Type: multi	ipart/m	ixed, Conter	nt-Type	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=progre								
values	FAC: Generic notification=catransfer number(PIXIT)	all tran	sfer active, S	Service	activation=call transfer, no Call				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	←		+	ANM				
	ACK	→							
		(Conversatio	on					
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	→							
	INFO(FAC)	→		→	FAC(call transfer active)				
	200 OK INFO	+							
	INVITE(sendrecv)	→							
	200 OK INVITE(sendrecv)	←							
	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, 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	into international format. The number".	the ca le natur	II transfer nu e of address	indica	contained in the SIP-I INFO request tor shall be set to "international		
SIP parameter	INVITE: Content-Type: multi		ixed, Conten	t-Type	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=can number=international(PIXIT)		sfer active, S	ervice	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			
	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	ij	ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, B.8, Q.732.7 [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	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	ced, Con	tent-Type: ap	pplic	ation/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, Ger							
values	FAC: Generic notification=call transformational(PIXIT)	er active	, Service act	tivati	ion=call transfer, Call transfer			
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		←	180 Ringing(ACM)			
	ANM	←		←	200 OK INVITE(ANM)			
				→	ACK			
			onversation					
	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 [ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2, B.8, Q.732.7 [i.5], clause 7.5.2.1.1.1 a)						
TSS reference	ISUP-SIP-ISUP/SS/ECT								
SIP selection									
criteria									
ISUP selection									
criteria	ECT - Interaction with SUB								
Test purpose	Verify that if the IUT is able to transfer the sub-address in the access transport parameter in the ISUP FAC message contained in the SIP-I INFO request in ISUP FAC message and vice versa received in an ISUP FAC message in a SIP-I INFO request containing the ISUP FAC message. These are the calling sub-address for incoming calls and the connected sub-address for outgoing calls. O-MGCF interworking.								
SIP parameter	INFO: Content-Type: application/IS	UP: FAC	encapsula	ted in	the MIME body				
values	3,11	- , -			,				
ISUP parameter values	FAC: Generic notification=call trans number(PIXIT) FAC: ATP contained the connected			ctivat	ion=call transfer, Call transfer				
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
		Co	onversatio	n					
	FAC(call transfer active, CTNb)	→		→	INFO(FAC)				
				+	200 OK INFO				
	FAC(ATP=SUB)	+		+	INFO(FAC)				
	·			→	200 OK INFO				
	FAC(ATP=SUB)	→		→	INFO(FAC)				
				+	200 OK INFO				
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP413001	SIP reference: RFC 3261 [4]			2.191	SUP reference: 2.5 [1], clause B.15, i.8], clauses 2.4; 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 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.							
SIP parameter	O-MGCF interworking. INVITE: Content-Type: multipart/mixed,	Cont	ont Type: or	nnlin	ation/ISLID : CDC			
values	encapsulated in the MIME body	COIII	ent-Type. ap	ppiic	allon/130F, CFG			
ISUP parameter	CPG: Event indicator=progress, Generic	c noti	fication-hole	4				
values	CPG: Event indicator=progress, General				nce established			
Comments	ISUP	CHOU	SUT		SIP-I			
Commonto	IAM	→		→	INVITE(IAM)			
	ACM	′		-	180 Ringing(ACM)			
	ANM	`		`	200 OK INVITE(ANM)			
	Alvivi			→	ACK			
		C	onversation		AOR			
	CPG(hold)	<u>→ </u>	Jiiversation	→	INVITE(CPG, sendonly)			
	Ci G(noid)			+	200 OK INVITE(recvonly)			
				→	ACK			
					ACK			
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)			
	Of O(conference established)	-		+	200 OK INVITE(sendrecv)			
				→	ACK			
		<u> </u>	onversation		1010			
	REL	<u>→ [</u>	JII VEI SALIUI	<u>'</u>	BYE(REL)			
	RLC	7		7	200 OK BYE(RLC)			
	INLU	•		_	1200 ON DIE(NLC)			

TP413002	SIP reference: RFC	3261 [4]	(ISUP reference: Q.1912.5 [1], clause B.15, Q.734.2 [i.8], clauses 2.4; 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 held 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. put this call on hold; 3. join this call to a conference. I-MGCF interworking							
SIP parameter	INVITE: Content-Type: multi	inart/mi	xed Content-	Type	e: application/ISUP : CPG			
values	encapsulated in the MIME b		, , , , , , , , , , , , , , , , , , , ,	.) [, application (100)			
ISUP parameter	CPG: Event indicator=progre		neric notificat	tion=	hold			
values	CPG: Event indicator=progre							
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
		Ċ	Conversation					
	INVITE(CPG, sendonly)	→		→	CPG(hold)			
	200 OK INVITE(recvonly)	+						
	ACK	→						
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)			
	200 OK INVITE(sendrecv)	+						
	ACK →							
		C	Conversation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP413003	SIP reference: RFC 3261	ISUP reference: Q.1912.5 [1], clause B.15, Q.734.2 [i.8], clauses 2.4; 2.2.1						
TSS reference	ISUP-SIP-ISUP/SS/3PTY							
SIP selection								
criteria								
ISUP selection								
criteria Test purpose	Served user initiates 3PTY							
SIP parameter values	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": • setup a call to user B; • establish a conference. O-MGCF interworking. INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body							
ISUP parameter	CPG: Event indicator=progress, Ge	eneric noti	fication=cor	nfere	nce established			
values	or o. Event maloater=progress, et	7110110 11011	110011011-001		neo ostabilonoa			
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	. ,			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
		Co	nversatio	n				
	CASE A							
	CPG(conference established)	→		→	INFO(CPG)			
	,			+	200 OK INFO			
	CASE B							
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)			
				+	200 OK INVITE(sendrecv)			
				→	ACK			
		Co	onversatio	n				
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP413004	SIP reference: RFC 3261 [4]			G	ISUP reference: Q.1912.5 [1], clause B.15, Q.734.2 [i.8], clauses 2.4; 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	<u> </u>	: multip	art/mixed,	Conten	t-Type: application/ISUP ; CPG			
values	encapsulated in the MIME b		·		,			
ISUP parameter values	CPG: Event indicator=progre	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	→						
		C	onversati	on				
	INFO(CPG)	→		→	CPG(conference established)			
	200 OK INFO	+			,			
	CASE B							
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)			
	200 OK INVITE(sendrecv)	+						
	ACK	→						
		C	onversati	on				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP413005	SIP reference: RFC 3261 [4]	ISUP reference:							
		Q.1912.5 [1], clause B.15,							
			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	0				1				
Test purpose	Served user creates a private communication with a remote user Verify that a 3PTY call can successfully create private communication with the active-held user. The appropriate notification received in an ISUP CPG and is sent in INVITE/INFO (CPG) messages to the SIP-I. O-MGCF interworking.								
SIP parameter	INFO/INVITE: Content-Type: multipa	rt/mixec	L Content-T	MDE.	application/ISLIP : CPG				
values	encapsulated in the MIME body	v i i ii AGC	., Jonitoni-1	, 20.	application/1001 , 01 0				
ISUP parameter	CPG 1, 4: Event indicator=progress,	Generio	notification	=hold	1				
values	CPG 5: Event indicator=progress, Ge								
	CPG 2: Event indicator=progress, Ge								
	CPG 3: Event indicator=progress, Ge								
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
		→	ACK						
		n							
	CASE A								
	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)	→		→	INFO(CPG)				
				+	200 OK INFO				
				<u> </u>					
	CPG 4(hold)	→		→	INVITE(CPG, sendonly)				
				←	200 OK INVITE(recvonly)				
				→	ACK				
	ODO 5/2-12:			<u> </u>	IN WITE (ODO : 1				
	CPG 5(retrieve)	7		→	INVITE(CPG, sendrecv)				
		+		→	200 OK INVITE(sendrecv)				
			onvoractic		ACK				
	CPG 6(conforance actablished)	→ C	onversatio	n →	INFO(CPC)				
	CPG 6(conference established)	7		7	INFO(CPG) 200 OK INFO				
		+		_	ZUU UN INFU				
			onversatio						
	DEI	→ \(onversatioi	n →	DVE(DEL)				
	REL RLC	+		7	BYE(REL) 200 OK BYE(RLC)				
	KLC	7		_	ZUU UK BYE(KLU)				

TP413005	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			
	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	
	CDC F(retrieve)	→	→	INIVITE (CDC condroos)	
	CPG 5(retrieve)	 7		INVITE(CPG, sendrecv)	
			→	200 OK INVITE(sendrecv) ACK	
		Co	nversation	ACK	
	CPG 6(conference established)	→ C0	ilversation -	INVITE(CPG,sendrecv)	
	Or O o(contenence established)		-	200 OK INVITE(sendrecv)	
			→	ACK	
				7.010	
		Co	nversation		
	REL	→	→	BYE(REL)	
	RLC	+	+	200 OK BYE(RLC)	

TP413006	SIP reference: RFC	3261	[4]	Q	ISUP reference: Q.1912.5 [1], clause B.15, .734.2 [i.8], clause 2.5.2.1.1.3 a				
TSS reference	ISUP-SIP-ISUP/SS/3PTY								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Served user creates a priva	ate co	ommunicati	on with	n a remote user				
	user. The appropriate notification messages to the ISUP. I-MGCF interworking.	ation	received in a	in INVIT	e communication with the active-held TE/INFO (CPG) and is sent in CPG				
SIP parameter	INFO/INVITE: Content-Type	: mult	ipart/mixed,	Conten	t-Type: application/ISUP ; CPG				
values	encapsulated in the MIME bo	ody							
ISUP parameter	CPG: Event indicator=progre	ess, G	Seneric notific	cation=	hold				
values	CPG: Event indicator=progre	ess, G	Seneric notific	cation=	retrieve				
	CPG: Event indicator=progre								
	CPG: Event indicator=progre	ess, G	eneric notific	cation=					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
	Conversation								
	CASE A								
	INVITE(CPG, sendonly)	→		→	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	→							
	, tert	+-							
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)				
	200 OK INVITE(sendrecv)	+		<u> </u>	Or O(comercine established)				
	ACK	→							
	AOR	+*		+					
	INFO(CPG)	→		→	CPG(conference disconnected)				
	200 OK INFO	+			Cr O(contenence discontrected)				
	200 OK IIVI O	_		+					
	INVITE(CPG, sendonly)	→	+	→	CPG(hold)				
	200 OK INVITE(recvonly)	+	+	- •	Or O(riola)				
	ACK	→	+	+					
	ACK	7		-					
	INVITE(CPG, sendrecv)	→	+	→	CPG(retrieve)				
	200 OK INVITE(sendrecv)	+	+	7	Or G(remeve)				
	\			-					
	ACK	ACK →							
	INEO(CDC)	 _	Conversation	on →	CDC/aanfaranga catabilahad)				
	INFO(CPG)	→	+	 7	CPG(conference established)				
	200 OK INFO	_	Commons - 1!		 				
	DVE(DEL)	+	Conversation		DEL				
	BYE(REL)	→	1	→	REL				
	200 OK BYE(RLC)	+		-	RLC				

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 a			
	CASE B							
	INVITE(CPG, sendonly)	→		→	CPG(hold)			
	200 OK INVITE(recvonly)	+						
	ACK	→						
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)			
	200 OK INVITE(sendrecv)	+						
	ACK							
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)			
	200 OK INVITE(sendrecv)	+			, ,			
	ACK	→						
	INVITE(CPG, sendonly)	→		→	CPG(hold)			
	200 OK INVITE(recvonly)	+			, , ,			
	ACK	→						
	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:					
		Q.1	912.5 [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 private com						
	Verify that the IUT (controlling the controlling the controlling the active private communication with the active						
	messages to the user.	e-lule us	er. The approp	briate notification is sent in CFG			
	O-MGCF interworking.						
SIP parameter	INFO/INVITE: Content-Type: multipa	art/mixed	Content-Type	e: application/ISLIP : CPG			
values	encapsulated in the MIME body	arviinkou	, content type	c. application/1001 , of G			
ISUP parameter	CPG: Event indicator=progress, Ger	neric notif	fication=confe	rence established			
values	CPG: Event indicator=progress, Ger						
Comments	ISUP		SUT	SIP-I			
	IAM	→	-				
	ACM	+	•	180 Ringing(ACM)			
	ANM	+	•	200 OK INVITE(ANM)			
			-	ACK			
	Conversation						
	CASE A						
	CPG(conference established)	→	-				
			•	200 OK INFO			
			_				
	CPG(conference disconnected)	→		- ()			
			•	200 OK INFO			
			onversation				
	CPG(conference established)	→	1	- (/			
			€	200 OK INFO			
	DEI		onversation	D)(E(DEL)			
	REL	→	1				
	RLC	+	•	200 OK BYE(RLC)			
	CASE B	→		INIVITE/CDC condrag:			
	CPG(conference established)	7		(01 0,001101101)			
		+		, ,			
			7	AON			
	CPG(conference disconnected)	→	-	INVITE(CPG,sendrecv)			
	C. Stormerence disconnected)	 * 	- 4				
			-				
		Co	onversation	, ,,,,,,,			
	CPG(conference established)	→	-	INVITE(CPG,sendrecv)			
	5. 5(555.5.5.5.5.5.5.5.6.7.5.7.	 -	-	, , ,			
			-	(/			
		Co	onversation				
	REL	→	-	BYE(REL)			
	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									
Test purpose	Served user creates a private								
					PTY call can successfully create				
	messages to the user.	the act	ive-idie use	r. The a	appropriate notification is sent in CPG				
	I-MGCF interworking.								
SIP parameter		a: multi	nart/miyed	Conton	t-Type: application/ISUP ; CPG				
values	encapsulated in the MIME b		part/mixed,	Conten	t-Type: application/1001 , Of O				
ISUP parameter	CPG: Event indicator=progr	ess G	eneric notifi	cation=	conference established				
values	CPG: Event indicator=progr								
Comments	SIP-I	1	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	+							
	INITO(CDC)	→		→	CPG(conference disconnected)				
	INFO(CPG) 200 OK INFO	+		7	CPG(conference disconnected)				
	200 OK INFO		L Conversati	on					
	INFO(CPG)	→			→ CPG(conference established)				
	200 OK INFO	+			Or O(conterence established)				
	200 01(1141 0	Conversation							
	BYE(REL)	→		<u>∵</u>	REL				
	200 OK BYE(RLC)	+		+	RLC				
	CASE B				-				
	_	(Conversati	on					
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)				
	200 OK INVITE(sendrecv)	+			,				
	ACK	→							
	INIVITE (ODO				ODO(t				
	INVITE(CPG,sendrecv)	+		7	CPG(conference disconnected)				
	200 OK INVITE(sendrecv)	→							
	ACK		 Conversati	on					
	INVITE(CPG,sendrecv)	→		on →	CPG(conference established)				
	200 OK INVITE(sendrecv)	+		7	or o(contenence established)				
	ACK	→							
	AOR		L Conversati	on					
	BYE(REL)	→		<u> </u>	REL				
	200 OK BYE(RLC)	+		+	RLC				
	1200 ON DIL(NLO)		l	•	INLO				

TP413009	SIP reference: RFC 3261 [4]		Q.19 ⁻	SUP reference: 2.5 [1], clause B.15, i.8], clause 2.5.2.1.1.3 b					
TSS reference	ISUP-SIP-ISUP/SS/3PTY		4						
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-Type:	application/ISUP; CPG					
values	encapsulated in the MIME body		,						
ISUP parameter	CPG: Event indicator=progress, Gener	ic not	ification=confere	nce established					
values	CPG: Event indicator=progress, General	ic not							
Comments	ISUP		SUT	SIP-I					
	IAM	→	→	INVITE(IAM)					
	ACM	←	(180 Ringing(ACM)					
	ANM	+	(200 OK INVITE(ANM)					
			→	ACK					
		_	onversation						
	CPG(conference established)	→	→	INFO(CPG)					
			←	200 OK INFO					
	CPG(conference disconnected)	→	→	INFO(CPG)					
			←	200 OK INFO					
			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								
			onversation						
	REL	→	→	BYE(REL)					
	RLC	+	(200 OK BYE(RLC)					

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	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" I-MGCF interworking.							
SIP parameter			ipart/mixed, Co	nten	t-Type: application/ISUP ; CPG			
values	encapsulated in the MIME be	ody						
ISUP parameter	CPG: Event indicator=progre							
values	CPG: Event indicator=progre	ess, G		ion=				
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		←	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	→						
	0.105.1		Conversation	1				
	CASE A							
	INVITE(CPG,sendrecv)	→		→	CPG(conference established)			
	200 OK INVITE(sendrecv)	+						
	ACK	→						
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)			
	200 OK INVITE(sendrecv)	7		7	CPG(conference disconnected)			
	ACK	7						
	ACK		Conversation					
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		7	RLC			
	CASE B	_		_	RLC			
	INVITE(CPG,sendrecv)	→		→	CDC(conformed cotablished)			
	200 OK INVITE(sendrecv)	7		7	CPG(conference established)			
		→						
	ACK	7						
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)			
	200 OK INVITE(sendrecv)	+		 	O O Contierence disconnected)			
	ACK	+						
	7.OK		L Conversation	<u> </u>				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			
	ZUU ON DIE(NLU)	•		_	INLO			

TP413011	SIP reference: RFC 3261 [4]			.191	SUP reference: 2.5 [1], clause B.15,				
			Q.73	4.2 [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 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	INFO/INVITE: Content-Type: multipart	/mixe	d, Content-Ty	/pe: a	application/ISUP ; CPG				
values	encapsulated in the MIME body								
ISUP parameter values	CPG: Event indicator=progress, Gener CPG: Event indicator=progress, Gener CPG: Event indicator=progress, Gener	ic not	ification=con	ferer	nce established nce disconnected				
Comments	ISUP		SUT		SIP-I				
	IAM	→	= = =	→	INVITE(IAM)				
	ACM	+			180 Ringing(ACM)				
	ANM	+		÷	200 OK INVITE(ANM)				
				<u>→</u>	ACK				
		C	onversation						
	CASE A								
	CPG(hold)	→		→	INVITE(CPG, sendonly)				
	(1111)			+	200 OK INVITE(recvonly)				
				→	ACK				
					, tort				
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)				
	Ci C(comercine established)	_			200 OK INVITE(sendrecv)				
				<u>→</u>	ACK				
					AOR				
	CPG(conference disconnected)	→		→	INFO(CPG)				
	Ci G(comercine disconnected)			′	200 OK INFO				
					200 81(1141 8				
	CPG(hold)	→		→	INVITE(CPG, sendonly)				
	Of G(fiold)				200 OK INVITE(recvonly)				
				`	ACK				
					, non				
	REL	→		→	BYE(REL)				
	RLC	-		7	200 OK BYE(RLC)				
	CASE B	 			LOO ON DIL(NLO)				
	CPG(hold)	→		→	INVITE(CPG, sendonly)				
	OT O(HOIG)			7	200 OK INVITE(recvonly)				
				<u>▼</u>	ACK				
				7	AOR				
	CPG(conference established)	→		→	INVITE(CPG, sendrecv)				
	Or O(comerence established)			7	200 OK INVITE(sendrecv)				
				<u>₹</u>	ACK				
					/ COIX				
	CPG(conference disconnected)	→		→	INVITE(CPG,sendrecv)				
	O O(comerence disconnected)	-		7	200 OK INVITE(sendrecv)				
				<u>~</u>	ACK				
					, tott				
	CPG(hold)	→		→	INVITE(CPG, sendonly)				
	Of O(floid)	-		7	200 OK INVITE(recvonly)				
				<u>₹</u>	ACK				
				7	AUN				
	REL	→		→	DVE/DEL)				
	RLC	7		<u> </u>	BYE(REL)				
	NLO	_	<u> </u>	_	200 OK BYE(RLC)				

TP413012	SIP reference: RFC	3261	[4]	0	ISUP reference: Q.1912.5 [1], clause B.15, .734.2 [i.8], clause 2.5.2.1.1.3 b					
TSS reference	ISUP-SIP-ISUP/SS/3PTY			Ų.	54.2 [1.0], Clause 2.5.2.1.1.3 D					
SIP selection	130F-31F-130F/33/3F11									
criteria										
ISUP selection										
criteria										
Test purpose	Served user disconnects of	ne re	mote user :	and 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,	Conten	t-Type: application/ISUP ; CPG					
values	encapsulated in the MIME bo									
ISUP parameter values	CPG: Event indicator=progre	ss, G	eneric notifi	cation=	conference established					
Commonto	CPG: Event indicator=progre	SS, G		cation=0						
Comments	SIP-I INVITE(IAM)	→	SUT		ISUP					
		 7		→ ←	IAM					
	180 Ringing(ACM)				ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→	<u> </u>							
	Conversation									
	CASE A			_	ODO(11-1)					
	INVITE(CPG, sendonly)	→		→	CPG(hold)					
	200 OK INVITE(recvonly)									
	ACK	→								
	NN/ITE/ODG				000/ (
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)					
	200 OK INVITE(sendrecv)	+								
	ACK	7								
	INEO(ODO)				000/					
	INFO(CPG) 200 OK INFO	→		→	CPG(conference disconnected)					
	200 OK INFO	_								
	INVITE(CPG, sendonly)	→		→	CPG(hold)					
	200 OK INVITE(recvonly)	+		7	CFG(floid)					
	ACK	→								
	ACK	7								
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+			RLC					
	CASE B	_		-	INLO					
	INVITE(CPG, sendonly)	→		→	CPG(hold)					
	200 OK INVITE(recvonly)	+		7	Or G(Hold)					
	ACK	→								
	INVITE(CPG, sendrecv)	→		→	CPG(conference established)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
	INVITE(CPG,sendrecv)	→		→	CPG(conference disconnected)					
	200 OK INVITE(sendrecv)	+								
	ACK	→								
	INVITE(CPG, sendonly)	→		→	CPG(hold)					
	200 OK INVITE(recvonly)	+		+*						
	ACK	→								
	AON									
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+		É	RLC					
L	LOO ON DIL(NEO)		I		1					

5.3.13 User-to-user service

5.3.13.1 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 request: User-to-user information in the IAM Ensure that the SUT can successfully transfer the User-to-user service 1 implicit request in the encapsulated IAM. O-MGCF interworking.								
SIP parameter	INVITE: Content-Ty	pe: multipart/mi	xed, Conter	nt-Type: appli	cation/ISUP; IAM containing				
values	the user-to-user info	ormation parame	eter encaps	ulated in the I	MIME body				
ISUP parameter values	IAM: User-to-user in	nformation parar	meter		·				
Comments	ISUP		SUT		SIP-I				
	IAM	→		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				→	ACK				
			Conversa	ition					
	REL	→		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP414002	SIP reference: RF	C 3261	[4]	Q.19	SUP reference: 12.5 [1], clause B.21, 0], clauses 1.1.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS1							
SIP selection								
criteria								
ISUP selection	PICS 5/23							
criteria								
Test purpose	Service 1 implicit request: User-to-user information in the INVITE							
CID nevernotes	Ensure that the SUT can successfully transfer the User-to-user service 1 implicit request in the encapsulated IAM. I-MGCF interworking.							
SIP parameter	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing							
values	the user-to-user information parameter encapsulated in the MIME body							
ISUP parameter values	IAM: User-to-user information parameter							
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			

TP414003	SIP reference: 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	1	Qiror [iii	oj, oladoco 11110.2.0 ana 4		
SIP selection	PICS 5/23						
criteria							
ISUP selection							
criteria							
Test purpose	Service 1 explicit request: User-to-user information in the INVITE						
SIP parameter values ISUP parameter values	Ensure that the SUT can successfully transfer the User-to-user service 1 explicit request not essential in the encapsulated IAM. O-MGCF interworking. INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing the user-to-user indicator parameter encapsulated in the MIME body IAM: User-to-user information parameter, User-to-user indicator = service 1 explicit request not essential						
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)		

TP414004	SIP reference: RFC	3261	[4]		2.191	SUP reference: 2.5 [1], clause B.21,], clauses 1.1.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS1							
SIP selection criteria	PICS 5/23							
ISUP selection criteria								
Test purpose	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 IAM. 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 180 Ringing: Content-Type: application/ISUP; ACM containing the user-to-user indicator parameter encapsulated in the MIME body							
ISUP parameter values	IAM: User-to-user information parameter, User-to-user indicator = service 1 explicit request essential ACM: User-to-user indicator set to service 1 supported response							
Comments	ISUP		SUT	Γ		SIP-I		
	IAM	→			→	INVITE(IAM)		
	ACM	+			+	180 Ringing(ACM)		
	ANM	+			+	200 OK INVITE(ANM)		
					→	ACK		
	Conversation							
	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					
Test purpose	Service 1 explicit request: L Ensure that the SUT can su essential received in the end	ccessf	ully transfer	the User	-to-us	er service 1 explicit request
SIP parameter values	INVITE: Content-Type: mult the user-to-user indicator pa 180 Ringing: Content-Type: parameter encapsulated in	aramete applica	er encapsul ation/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		SU			ISUP
	INVITE(IAM)	→			1	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Convers	ation		
	BYE(REL)	^			1	REL
	200 OK BYE(RLC)	+			+	RLC

TP414006	SIP reference: RFC 3	3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.21, D], 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 implicit response: L	Jser-te	o-user inforr	nation in the A	ACM
	Ensure that the SUT can succ	cessfu	ılly transfer	the User-to-us	ser service 1 implicit response
	in the encapsulated ACM.				
	O-MGCF interworking.				
SIP parameter values	Service 1 implicit response: L	Jser-to	o-user inforr	nation in the 1	80 Ringing
	INVITE: Content-Type: multip	art/m	ixed, Conte	nt-Type: applic	cation/ISUP; IAM containing
	the user-to-user information p				
				ACM containir	ng the user-to-user information
	parameter encapsulated in th				
ISUP parameter	IAM: User-to-user information				
values	ACM: User-to-user information	n par			
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)

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	Ensure that the SUT can su in the encapsulated ACM.	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.						
CID novemeter	I-MGCF interworking.	: 1/		T	P -	ation /IOLID a IAM a sustaining		
SIP parameter values	the user-to-user information					ation/ISUP; IAM containing		
values						g the user-to-user information		
	parameter encapsulated in			ACIVI COI	Italilli	g the user-to-user information		
ISUP parameter	IAM: User-to-user information							
values	ACM: User-to-user informat							
Comments	SIP-I		SU	Γ		ISUP		
	INVITE(IAM)	→			→	IAM		
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
		Conversation						
	BYE(REL)	→			→	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP414008	SIP reference: RFC	3261	[4]	Q.19 ²	ISUP reference: 12.5 [1], clause B.21, D], 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. O MCCF interverking						
SIP parameter values	the user-to-user information	param applic	neter encaps ation/ISUP;	ulated in the N	cation/ISUP ; IAM containing JIME body ng the user-to-user indicator			
ISUP parameter values		on para	meter, User		ator set to service 1 request			
Comments	ISUP		SUT		SIP-I			
	IAM	→		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM							
				→	ACK			
			Conversa	ation				
	REL	→		→	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP414009	SIP reference: RF	C 3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.21,
				Q.737 [i.1	0], 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 explicit response	service	1 not provi	ded in the ACI	M
	Ensure that the SUT can s not provided in the ACM. I-MGCF interworking.	uccessf	ully transfer	the User-to-us	ser service 1 explicit response
SIP parameter	INVITE: Content-Type: mu	ltipart/m	ixed, Conte	nt-Type: appli	cation/ISUP; IAM containing
values	the user-to-user informatio				
	180 Ringing: Content-Type parameter encapsulated in			ACM containii	ng the user-to-user indicator
ISUP parameter				-to-user indica	ator set to service 1 request
values	not essential	•	•		•
	ACM: User-to-user indicate	or set to	service 1 no	ot provided res	sponse
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

TP414010	SIP reference: RFC	3261	[4]	Q.1	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 criteria	PICS 5/23							
ISUP selection criteria								
Test purpose	Ensure that the SUT can su network in the encapsulated O-MGCF interworking.		•	the User-to-	user service 1 discarded by the			
SIP parameter values	the user-to-user information	param applica	eter encaps ation/ISUP;	ulated in the	olication/ISUP; IAM containing of MIME body ning the User-to-user indicator			
ISUP parameter	IAM: User-to-user information							
values	ACM: User-to-user indicator	r set to	discarded b	y the networ	rk response			
Comments	ISUP		SUT	•	SIP-I			
	IAM	→		→				
	ACM	←		•	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				7	ACK			
		Conversation						
	REL	→		7	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP414011	SIP reference: RFC	3261	[4]	0.4	ISUP refer			
						lause B.21, s 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	Ensure that the SUT can su network in the encapsulated I-MGCF interworking.			the User-to-	user service	1 discarded by the		
SIP parameter values	the user-to-user information	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	on para	meter					
values	ACM: User-to-user indicator	r set to	discarded b	y the networ	k response			
Comments	SIP-I		SUT	•	ISUP			
	INVITE(IAM)	→		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)							
	ACK →							
		Conversation						
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

5.3.13.2 User-to-user service 2

TP414101	SIP reference: RFC	3261	[4]		ISUP reference: [2.5 [1], clauses 5.4.3, B.21, [i.10], clauses 1.2.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS2			۷ ۰.			
SIP selection criteria	PICS 5/23						
ISUP selection criteria							
Test purpose	Service 2 request not essential transferred in the INVITE						
	and User-to user information information is sent in a USR O-MGCF interworking.	n in the I messa	encapsulat age encapsu	ed IAM. Ar ulated in ar	n INFO request.		
SIP parameter values		nd User ation/IS	r-to-user info SUP; USR c	ormation er	oplication/ISUP ; IAM containing ncapsulated in the MIME body he User-to-user information		
ISUP parameter	IAM: User-to-user information			-to-user in	dicator		
values	USR: User-to-user informati		,				
Comments	ISUP		SUT	•	SIP-I		
	IAM	→		1	→ 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		
	REL	→			→ BYE(REL)		
	RLC	+	_		€ 200 OK BYE(RLC)		

the encapsulated IAM. An additional User-to-user information is sent in a USR message encapsulated in an INFO request. O-MGCF interworking. 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 values IAM: User-to-user information parameter, User-to-user indicator USR: User-to-user information SIP-I SUT ISUP INVITE(IAM)	TP414102	SIP reference: RI	FC 3261 [4	4]	Q.1912.5	ISUP reference: 5 [1], clauses 5.4.3, B.21, 0], clauses 1.2.5.2.3 and 4		
Criteria ISUP selection Criteria Service 2 request not essential transferred in the IAM	TSS reference	ISUP-SIP-ISUP/SS/UUS2	2					
SUP selection criteria PICS 5/23	SIP selection							
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 IAM: User-to-user information parameter, User-to-user indicator USR: User-to-user information SIP-I SUT ISUP INVITE(IAM) → IAM 180 Ringing(ACM) ← ACM 200 OK INVITE(ANM) ← ACM Conversation INFO(USR) → USR 200 OK INFO ← USR 200 OK INFO ← USR 200 OK INFO ← USR	criteria							
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. 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 values ISUP parameter values ISUP jaments SIP-I SUT ISUP INVITE(IAM) SUT ISUP INVIT	ISUP selection	PICS 5/23						
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 values IAM: User-to-user information parameter, User-to-user indicator USR: User-to-user information SIP-I SUT ISUP INVITE(IAM)								
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 values IAM: User-to-user information parameter, User-to-user indicator USR: User-to-user information SIP-I SUT ISUP INVITE(IAM)	Test purpose	Ensure that the SUT can successfully transfer the User-to-user service 2 explicit request in						
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 values			request.					
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 values IAM: User-to-user information parameter, User-to-user indicator USR: User-to-user information SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM) ACK Conversation INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO INFO(USR) 200 OK INFO	CID nonemater		lt!t/!-		. T	ti/IOLID - IAMt-ii		
IAM: User-to-user information parameter, User-to-user indicator USR: User-to-user information SIP-I	•	the user-to-user indicator encapsulated in the MIME body INFO: Content-Type: application/ISUP; USR containing the User-to-user information						
Values USR: User-to-user information Comments SIP-I SUT ISUP INVITE(IAM) → IAM 180 Ringing(ACM) ← ACM 200 OK INVITE(ANM) ← ANM ACK → Conversation INFO(USR) → USR 200 OK INFO ← USR 200 OK INFO → USR	ISUP parameter				to-user indica	ator		
INVITE(IAM)				,				
180 Ringing(ACM) ← ACM 200 OK INVITE(ANM) ← ANM ACK Conversation INFO(USR) → USR 200 OK INFO INFO(USR) ← USR 200 OK INFO →	Comments	SIP-I		SUT		ISUP		
200 OK INVITE(ANM) ← ANM ACK Conversation INFO(USR) → USR 200 OK INFO INFO(USR) ← USR 200 OK INFO → ANM Conversation USR		INVITE(IAM)	→		→	IAM		
200 OK INVITE(ANM)		180 Ringing(ACM)	+		+	ACM		
Conversation			+		+	ANM		
INFO(USR) → USR 200 OK INFO ← USR 200 OK INFO → USR		ACK	→					
200 OK INFO				Conversa	tion			
INFO(USR) ← USR 200 OK INFO →		INFO(USR)	→		→	USR		
200 OK INFO →		200 OK INFO	+					
200 OK INFO →								
		INFO(USR) ← USR						
DVE(DEL) A DEL		200 OK INFO	→					
		BYE(REL)	→		→	REL		
200 OK BYE(RLC)								

TP414103	SIP reference: RFC	3261	[4]		Q.191	SUP reference: 2.5 [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	Ensure that the SUT can su	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.						
SIP parameter values	INVITE: Content-Type: mult the user-to-user information 180 Ringing: Content-Type: parameter encapsulated in	param applica	neter encaps ation/ISUP; /	ulated in	the M	IIME body		
ISUP parameter	IAM: User-to-user information							
values	ACM: User-to-user indicator	r set to			d resp			
Comments	ISUP		SUT	'		SIP-I		
	IAM	→			<u>→</u>	INVITE(IAM)		
	ACM	+			<u>+</u>	180 Ringing(ACM)		
	ANM	+			<u>+</u>	200 OK INVITE(ANM)		
		→ ACK						
			Conversa	ition				
	REL	→			<u>→</u>	BYE(REL)		
	RLC	+			+	200 OK BYE(RLC)		

TP414104	SIP reference: RFC	3261	[4]	0.1	ISUP reference 912.5 [1], claus			
					10], clauses 1.			
TSS reference	ISUP-SIP-ISUP/SS/UUS2			_				
SIP selection criteria								
ISUP selection criteria	PICS 5/23							
Test purpose	Service 2 response not prov	/ided tr	ansferred in	the ACM				
	Ensure that the SUT can su not provided in the encapsu	lated A	CM. I-MGC	F interworkin	g.			
SIP parameter	INVITE: Content-Type: mult					AM containing		
values	the user-to-user indicator pa							
	180 Ringing: Content-Type:			ACM contain	ing the user-to-	user indicator		
IOLID	parameter encapsulated in							
ISUP parameter	IAM: User-to-user information							
values Comments	ACM: User-to-user indicator	r set to	Service 2 n		ISUP			
Comments	INVITE(IAM)	→	30	→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		· ·				
	ACK	ANIVITE(ANIVI)						
	, con	Conversation						
	BYE(REL)	→	30117013	<u> </u>	REL			
	200 OK BYE(RLC)	+		+	RLC			

5.3.13.3 User-to-user service 3

TP414201	SIP reference: RF	C 3261	[4]		ISUP reference: 5 [1], clauses 5.4.3, B.21, 0], 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		ditional (ser service 3 explicit request in several USR message
SIP parameter	INVITE: Content-Type: mu	ltipart/m	ixed, Conte	ent-Type: appli	ication/ISUP; IAM containing
values	the user-to-user indicator of INFO: Content-Type: application parameter encapsulated in	cation/IS	SUP; USR o		User-to-user information
ISUP parameter	IAM: User-to-user informat	ion para	meter, Use	r-to-user indic	ator
values	USR: User-to-user informa	tion			
Comments	ISUP		SU.	Т	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
	USR	+		+	INFO(USR)
				→	200 OK INFO
	USR	→		→	INFO(USR)
				+	200 OK INFO
	DEL				DVE(DEL)
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP414202	SIP reference: RFC 3261 [4]			Q.1912.	ISUP reference: 5 [1], clauses 5.4.3, B.21, 0], clauses 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	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 i	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: RF	C 3261	[4]	Q.1912 Q.737 [i.	ISUP reference: .5 [1], clauses 5.4.3, B.21, 10], clauses 1.2.5.2.3 and 4				
TSS reference	ISUP-SIP-ISUP/SS/UUS3				<u>-</u>				
SIP selection criteria	PICS 5/23								
ISUP selection criteria									
Test purpose	Encure that a Ucer-to-uce	r reques	t convice 3	ancanculated	in an INFO request during the				
	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: appl		SUP; FAR o	ontaining the	user-to-user indicator				
values	INFO: Content-Type: appliencapsulated in the MIME	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							
ISUP parameter	FAR: User-to-user indicate			not essential					
values	FAA: User-to-user indicate USR: User-to-user information	or service							
Comments	ISUP	1011	SU	т	SIP-I				
	IAM	→		· →					
	ACM	+		+					
	ANM	+		+					
	AINIVI	_		→ ×					
			Convers	ation					
	FAR	→		→	INFO(FAR)				
		_		+					
	FAA	+		+					
				→	200 OK INFO				
	USR	→		→	INFO(USR)				
				+					
	LIOD				INEC(HOD)				
	USR	+		-					
				→	200 OK INFO				
	USR	+		+	INFO(USR)				
				→					
	USR	→		-	INFO(USR)				
				+					
	REL	→		→	BYE(REL)				
	RLC	+		+					
	INCO		<u> </u>		200 ON DTL(NLO)				

TP414204	SIP reference: RI	FC 3261		ISUP reference:						
				Q.1912.5 [1], clauses 5.4.3, 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	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: app		SUP; FAR c	ontaining the u	user-to-user indicator					
values	INFO: Content-Type: app encapsulated in the MIME	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								
ISUP parameter	FAR: User-to-user indicat			not essential						
values	FAA: User-to-user indicat									
	USR: User-to-user inform	ation	-	•						
Comments	SIP-I		SU [*]	Γ	ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
	Conversation									
	INFO(FAR)	→		→	FAR					
	200 OK INFO	+								
	INFO(FAA)	+		+	FAA					
	200 OK INFO	→								
	INFO(USR)	→		→	USR					
	200 OK INFO	+								
	INFO(USR)	+		+	USR					
	200 OK INFO	→		_	33.1					
	200 011 111 0									
	INFO(USR)	+		+	USR					
	200 OK INFO	→		 						
	200 010 1101 0	 								
	INFO(USR)	→		→	USR					
	200 OK INFO	+			OOK					
	200 OK IINI'O	+								
	BYE(REL)	→		→	REL					
	200 OK BYE(RLC)	+			RLC					
	1200 ON DIE(KLC)]	~	IKLU					

TP414205	SIP reference: RFC	3261	[4]	Q.19 ²	SUP reference: 12.5 [1], clause B.21, 0], 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: RF	C 3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.2.5.2.3 and 4				
TSS reference	ISUP-SIP-ISUP/SS/UUS3								
SIP selection									
criteria									
ISUP selection criteria	PICS 5/23								
Test purpose	Ensure that the SUT can s in the encapsulated ANM. O-MGCF interworking.								
SIP parameter values	INVITE: Content-Type: mu the user-to-user indicator p 200 OK INVITE: Content-T indicator parameter encaps	oaramet ype: ap	er encapsula plication/ISU	ated in the MII JP; ANM conta					
ISUP parameter	IAM: User-to-user indicato	r set to s	service 3 rec	uest					
values	ANM: User-to-user indicate	or set to	service 3 pr	ovided respor	nse				
Comments	SIP-I		SUT	•	ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	200 OK INVITE(ANM)							
	ACK →								
			Conversa	ation					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP414207	SIP reference: RF	FC 3261	[4]	Q.1912.5	ISUP reference: [1], clauses 5.4.3, B.21, D], clauses 1.2.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS3	3						
SIP selection	PICS 5/23							
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that a User-to-use confirmed state can succe				n an INFO request during the request is rejected.			
SIP parameter	INFO: Content-Type: appl	lication/IS	SUP; FAR c	ontaining the u	ser-to-user indicator			
values	encapsulated in the MIME							
	INFO: Content-Type: appl		SUP; FRJ c	ontaining the u	ser-to-user indicator			
		encapsulated in the MIME body						
ISUP parameter	FAR: User-to-user indicate		•					
values	FRJ: User-to-user indicate	or 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: RFC 3261 [4] ISUP reference:						
				Q.1912.5	[1], clauses 5.4.3, 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					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		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
			Convers				
	INFO(FAR)	→		→	FAR		
	200 OK INFO	+					
	INFO(FRJ)	+		+	FRJ		
	200 OK INFO	→					
	BYE(REL)	→		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

5.3.14 Closed User Group (CUG)

TP415001	SIP reference: RFC	3261 [4]]	Q.1912.5	ISUP reference: [1], clauses 5.4.3, B.16, 9], clauses 1.5.2.3, 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	I-IWU: Successful call setup with 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 the CUG Interlock code is and in addition the optional Forward call indicator is transferred from the received encapsulated IAM.									
SIP parameter values	INVITE(IAM): IAM Optional forward Closed user g closed user	group call er group	l indicator call, outgo	ing access all	owed					
ISUP parameter	IAM									
values	Optional forward call ind Closed user group controls closed user group Closed user group interl	all indicat p call, ou	tgoing acc	ess allowed						
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					

TP415002	SIP reference: RFC	3261	[4]		12.5	SUP reference: [1], clauses 5.4.3, B.16,)], clauses 1.5.2.3, 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	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	INVITE(IAM):									
values	IAM Optional forward of Closed user gr closed user Closed user group	oup car	all indicator p call, outgo	oing acces	ss allo	owed				
ISUP parameter	IAM									
values	Optional forward call indic Closed user group cal closed user group Closed user group interlo	ll indic call, c	outgoing acc	cess allow	/ed					
Comments	ISUP		SUT			SIP-I				
	IAM	→			→	INVITE(IAM)				
	ACM	+			+	180 Ringing(ACM)				
	ANM	+			+	200 OK INVITE(ANM)				
				İ	→	ACK				
			Convers	ation						
	REL	→			→	BYE(REL)				
	RLC	←			+	200 OK BYE(RLC)				

TP415003	SIP reference: RFC	3261 [4]		12.5	SUP reference: [1], clauses 5.4.3, B.16,)], clauses 1.5.2.3, 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	I-IWU: Successful call setup with CUG 'outgoing access not 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 not 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	INVITE(IAM):								
values	IAM Optional forward Closed user g closed use Closed user grou	roup ca er group	all indicator call, outgo	ing acces	ss allo	owed			
ISUP parameter	IAM								
values	Optional forward call indi Closed user group ca closed user group Closed user group interlo	all indicated al	utgoing acc	ess not a	llowe	d			
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			

TP415004	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clauses 5.4.3, B.16,							
				Q.735.1 [i	.9], clauses 1.5.2.3, 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: Successful call set	up wi	th CUG 'ou	tgoing acces	s not allowed'			
	Ensure that on receipt of an	ISUP	IAM contain	ing a CUG Int	terlock code parameter and an			
					lowed', an INVITE is sent and			
	the CUG Interlock code is pr							
	Forward call indicator is tran	sferre	d from the re	eceived IAM.				
SIP parameter	INVITE(IAM):							
values	IAM							
	Optional forward							
	Closed user g							
				oing access no	ot allowed			
IOUD	Closed user group	o interi	ock code					
ISUP parameter values	IAM							
values	Optional forward call indi Closed user group ca		otor					
	closed user group			bees allowed				
	Closed user group interlo			cess allowed				
Comments	ISUP	JON 000	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)			

TP415005	SIP reference: RFC	3261	[4]	Q.1912.5	ISUP reference: [1], clauses 5.4.3, B.16, 9], clauses 1.5.2.3, 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	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 values	INVITE(IAM): IAM Optional forward Closed user (call inc group c er grou	dicator all indicator p call, outgo	ing access all	owed				
ISUP parameter	IAM								
values	Optional forward call ind Closed user group c no CUG call OR parameter is not pre	all indic	cator						
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				

TP415006	SIP reference: RFC 3	3261	[4]		ISUP reference: .5 [1], clauses 5.4.3, B.16, [i.9], clauses 1.5.2.3, 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	O-IWU: Call from a network supporting CUG to a network not supporting CUG; 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 not present in the encapsulated IAM and in addition the optional Forward call indicator is set to 'no CUG call' if present.				
SIP parameter	INVITE(IAM):				
values	IAM				
	Optional forward call indicator Closed user group call indicator no CUG call OR parameter is not present				
ISUP parameter	IAM				
values	Optional forward call indicator Closed user group call indicator closed user group call, outgoing access allowed Closed user group interlock code				
Comments	ISUP		SUT		SIP-I
	IAM	→		→	
	ACM	←		←	100111191119(110111)
	ANM	←		←	
				→	ACK
	Conversation				
	REL	→		→	()
	RLC	←		+	200 OK BYE(RLC)

TP415007	SIP reference: RFC 3261 [4]		ISUP reference:	
			Q.1912.5 [1], clauses 5.4.3, B.16,	
			Q.735.1 [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'			
	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 not allowed', an unsuccessful final response is sent.			
SIP parameter	INVITE(IAM):			
values	IAM ´			
	Optional forward call indicator			
	Closed user group call indicator			
	closed user group call, outgoing access allowed			
	Closed user group interlock code			
ISUP parameter values				
Comments	SIP-I	SUT	ISUP	
	INVITE(IAM) →		<u> </u>	
	5xx ←			
	ACK →			

TP415008	SIP reference: RFC	3261 [4	4]		ISUP reference: 912.5 [1], clauses 5.4.3, B.16,
				Q.7	35.1 [i.9], clause 1.4 Table 1-1
TSS reference	ISUP-SIP-ISUP/SS/CUG				
SIP selection criteria	NOT PICS 5/22				
ISUP selection					
criteria	0.04/11 0.011				
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 indicator				
Values	Closed user group call indicator				
	closed user group call, outgoing access allowed				
	Closed user group interlock code REL:				
	Cause				
	facility rejected				
Comments	ISUP		SUT		SIP-I
	IAM	→			1 1
	REL	÷			
	RLC	÷			
	ILCO				

Annex A (informative): Bibliography

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

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

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History

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