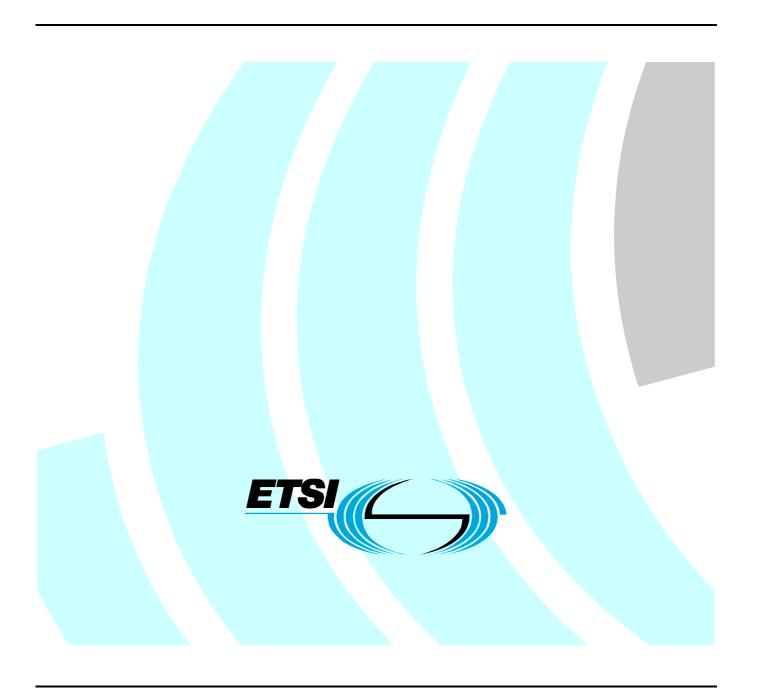
# ETSITS 186 002-2 V1.1.5 (2008-05)

Technical Specification

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

Part 2: Test Suite Structure and Test Purposes (TSS&TP) for Profile A and B



#### Reference

#### RTS/TISPAN-06028-2-NGN

#### Keywords

BICC, CTS, interworking, SIP, testing, TSS&TP

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#### **Foreword**

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

The present document is part 2 of a multi-part deliverable covering the Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP), as identified below:

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

## 1 Scope

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

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

### 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
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#### 2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

[1]	11U-1 Recommendation Q.1912.5: "Interworking between Session Initiation Protocol (SIP) and
	Bearer Independent Call Control protocol or ISDN User Part".

- [2] ETSI EN 383 001: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control (BICC) Protocol or ISDN User Part (ISUP) [ITU-T Recommendation Q.1912.5, modified]".
- [3] ITU-T Recommendations Q.761 to Q.764 (2000): "Signalling System No.7 ISDN User Part (ISUP)".
- [4] ITU-T Recommendations Q.1902.1 to Q.1902.4 (2001): "Bearer Independent Call Control Protocol (BICC)".
- [5] ITU-T Recommendation Q.850 (1998): "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part".
- [6] IETF RFC 3261 (2002): "SIP: Session Initiation Protocol".

[7]	IETF RFC 3312 (2002): "Integration of Resource Management and Session Initiation Protocol (SIP)".
[8]	ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General Concepts".
[9]	ISO/IEC 9646-3 (1992): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
[10]	ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statement".
[11]	ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
[12]	IETF RFC 3267: "Real-Time Transport Protocol (RTP) Payload Format and File Storage Format for the Adaptive Multi-Rate (AMR) and Adaptive Multi-Rate Wideband (AMR-WB) Audio Codecs".
[13]	ITU-T Recommendation Q.939: "Typical DSS 1 service indicator codings for ISDN telecommunications services".
[14]	ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]".
[15]	ETSI TS 183 008: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification".

#### 2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Not applicable.

## 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in SIP/ISUP interworking reference specification, in ISO/IEC 9646-1 [8], in ISO/IEC 9646-3 [9], in ISO/IEC 9646-7 [10] and the following apply:

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

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

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

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

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

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

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

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

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

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

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

SIP number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [11]

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

#### 3.2 Abbreviations

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

ATC Abstract Test Case Abstract Test Method ATM ATP Access Transport Parameter Abstract Test Suite ATS **Backward Call Indicators** BCI **CPS** Calling Party's Category DSS1 Digital Subscriber System No. 1 FCI Forward Call Indicators HLC High Layer Compatibility

ISDN Integrated Services Digital Network

ISUP ISDN User Part

IUT Implementation Under Test

MOT Means Of Testing

NCI Nature of Connection Indicators
OBCI Optional Backward Call Indicators

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

SUT System Under Test

TMR Transmission Medium Requirement

TP Test Purpose
TSS Test Suite Structure

TTCN Tree and Tabular Combined Notation

NOTE: The ISUP message acronyms can be found in table 2/ITU-T Recommendation Q.762 [3].

# 4 Implementation under test and test methods

## 4.1 Identification of the system and implementation under test

#### 4.1.1 Profile A

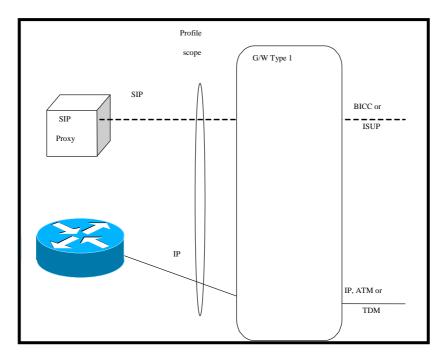


Figure 1: Profile Scope for SIP Interworking with BICC/ISUP with a Type 1 Gateway

#### 4.1.2 Profile B

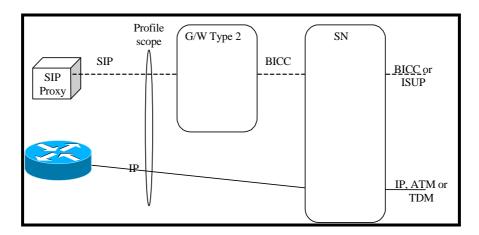


Figure 2: Profile Scope for SIP Interworking with BICC/ISUP with a Type 2 Gateway

# 5 Test Suite Structure (TSS)

The Test Suite Structure is in close alignment with ITU-T Recommendation Q.1912.5 [1] and EN 383 001 [2].

## 5.1 Interworking from SIP to ISUP (outgoing call)

SIP -ISUP Basic call		
	Sending of the Initial address message (IAM)	101xxx
	Sending of the Subsequent address message (SAM)	102xxx
	Sending of COT	103xxx
	Receipt of the Address complete message (ACM)	104xxx
	Receipt of the Call progress message (CPG)	105xxx
	Receipt of the answer message (ANM)	106xxx
	Receipt of the Connect message (CON)	107xxx
	Receipt of the Release message (REL)	108xxx
	Receipt of the BYE, CANCEL message / sending of a REL	109xxx
	message	
	Receipt of Reset circuit message (RSC), Circuit group reset	1010xxx
	message (GRS) or Circuit group blocking message (CGB) with	
	the indication hardware failure oriented	
	Receipt of the SUSPEND Message (SUS)	1011xxx
	Receipt of the RESUME Message (RES)	1012xxx

Figure 3: Basic call Test suite structure for interworking between SIP to ISUP (outgoing call)

## 5.2 Interworking from ISUP to SIP (incoming call)

Sending of the INVITE message	301xxx
Receipt of the Subsequent address message (SAM)	302xxx
Sending of the Address complete message (ACM)	303xxx
Sending of the Call progress message (CPG)	304xxx
Sending of the answer message (ANM)	305xxx
Sending of the Connect message (CON)	306xxx
Receipt of the Release message (REL)	307xxx
Sending of the Release Message (REL)	308xxx
Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with	309xxx า
the indication hardware failure oriented	

Figure 4: Basic call Test suite structure for interworking between ISUP to SIP (incoming call)

# 5.3 Supplementary Services - Interworking from SIP to ISUP (outgoing call)

SIP-ISUP Supplementary S	Services	
	Calling Line Identification (CLI)	501xxx
	Call Hold (HOLD)	502xxx
	Terminal Portability (TP)	503xxx
	Conference Calling (CONF)	504xxx
	Three-Party (3PTY)	505xxx
	Connected Line Identification (COL)	506xxx
	Malicious call identification (MCID)	507xxx
	Subaddressing (SUB)	508xxx
	Call Diversion (CDIV)	509xxx
	Call Waiting (CW)	510xxx
	User to User Signalling (UUS)	511xxx
	Explicit Call transfer (ECT)	512xxx
	Completion of Call to Busy Subscriber (CCBS)	513xxx
	Completion of Calls on No reply (CCNR)	514xxx
	Anonymous Call Rejection (ACR)	515xxx

Figure 5: Supplementary Services Test suite structure for interworking between SIP to ISUP (outgoing call)

# 5.4 Supplementary Services - Interworking from ISUP to SIP (incoming call)

SUP-SIP		
	Calling Line Identification (CLI)	601xxx
	Call Hold (HOLD)	602xxx
	Terminal Portability (TP)	603xxx
	Conference Calling (CONF)	604xxx
	Three-Party (3PTY)	605xxx
	Connected Line Identification (COL)	606xxx
	Subaddressing (SUB)	607xxx
	Closed User Group (CUG)	608xxx
	Call Diversion (CDIV)	609xxx
	Call Waiting (CW)	FFS
	User to User Signalling (UUS)	610xxx
	Explicit Call transfer (ECT)	611xxx
	Completion of Calls on No reply (CCNR)	FFS
	Completion of Call to Busy Subscriber (CCBS)	FFS

Figure 6: Supplementary Services - Test suite structure for interworking between ISUP to SIP (outgoing call)

## 6 Test purposes (TP)

#### 6.1 Introduction

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

#### 6.1.1 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 requirement in the DSS1 layer 3 Recommendation, which led to the TP;

ISUP reference the reference to the requirement in the interworking specification and the requirement in the

SIP-UP Recommendation, which led to the TP.

### 6.1.2 Source of test purpose definition

The test purposes have been developed based on ITU-T Rec Q.1912.5 [1] and EN 383 001 [2].

#### 6.1.3 Test purpose structure

The test purpose structure is according to the test suite structure (TSS).

## 6.2 Test purposes for the basic call

#### 6.2.1 Interworking from SIP to ISUP (Outgoing Call)

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

TP101001	SIP reference: I	RFC 3261 [6]	ISUP reference:	
			ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1, a)	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/			
SIP selection	NOT PICS 4/4 AND PIC	CS 4/5		
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that if the SUT u	pon receipt of the first	t INVITE with sufficient digits, without an	
	SDP offer and reliable	provisional responses	are supported:	
	<ul> <li>the SUT shall i</li> </ul>	mmediately send an S	SDP offer including a media description with	
	A-law (PCMA),	, but not μ-law (PCMU)	) within a 183 Session Progress message;	
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	sends a IAM message upon receipt of the SDP answer with media description.			
		g. apania		
SIP Parameter	SIP: 183 SDP1; PRACK SDP2			
values:				
ISUP Parameter				
values:				
Comments:	SIP	SUT	ISUP/BICC	
	INVITE	<b>→</b>		
	183 Session Progress	<b>←</b>		
	PRACK	<b>→</b>	→ IAM	
	200 OK PRACK	+		

TP101002	SIP reference: RFC	3261 [6]		SUP reference:
			ITU-T Rec Q.19	012.5 [1], clause 6.1.1 (1,i,b)
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 upor			ficient digits, without an
	SDP offer and reliable prov	risional responses	are supported:	
	<ul> <li>the SUT shall imm</li> </ul>	ediately send an	SDP offer includir	ng a media description with
	A-law (PCMA), bu	t not µ-law (PCML	J) within a 183 Se	ession Progress message;
	sends a IAM message whereby the Continuity indicator of the Nature of			
	Connection Indicators parameter shall be set to "COT to be expected".			
SIP Parameter	SIP: 183 SDP1; PRACK SDP2; UPDATE SDP3; 200 OK UPDATE SDP 4			
values:				
ISUP Parameter	IAM; Continuity Indicator: COT to be expected			
values:	COT; Continuity Indicator: of	•		
Comments:	SIP	SUT		BICC
	INVITE →		<b>→</b>	IAM
	183 Session Progress 🗲			
	PRACK →			
	200 OK PRACK ←			
	l		_	
	UPDATE(SDP) →		<u>→</u>	COT

TP101003	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1,i,b)	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Ac	ldress message (IAM)/	
SIP selection	PICS 4/4 AND PICS 4/5		
criteria:			
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 firs <b>SDP</b> offer and reliable provisional responses	<b>9</b>	
	De la composition de la compos		
	the SUT shall immediately send an	SDP offer including a media description with	
		J) within a 183 Session Progress message;	
	sends a IAM message whereby the Continuity check indicator in the Nature of		
	Connection Indicators parameter is set to "continuity check required on this		
	circuit".		
OID D			
SIP Parameter	SIP: 183 SDP1; PRACK SDP2; UPDATE SDP3; 200 OK UPDATE SDP 4		
values:			
ISUP Parameter	IAM; Continuity Indicator: continuity check required on this circuit		
values:	COT; Continuity Indicator: continuity check successful		
Comments:	SIP SUT	ISUP	
	INVITE -	IAM	
	183 Session Progress ←		
	PRACK -		
	200 OK PRACK ←	• • • • • • • • • • • • • • • • • • • •	
	UPDATE(SDP) →	→ COT	

TP101004	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1,i,b)	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	dress message (IAM)/	
SIP selection	PICS 4/4 AND PICS 4/5		
criteria:			
ISUP selection	NOT PICS 1/6 AND NOT PICS 4/1		
criteria:			
Test purpose:	Ensure that if the SUT upon receipt of the first	<b>9</b> 1	
	<b>SDP offer</b> and reliable provisional responses	are supported:	
		SDP offer including a media description with	
	A-law (PCMA), but not μ-law (PCMU) within a 183 Session Progress message;		
	• sending of the fAM shall be deferred	until all preconditions have been met.	
SIP Parameter	SIP: 183 SDP1; PRACK SDP2; UPDAT	F SDP3: 200 OK UPDATE SDP 4	
values:			
ISUP Parameter			
values:			
Comments:	SIP SUT	ISUP/BICC	
	INVITE →		
	183 Session Progress ←		
	PRACK →		
	200 OK PRACK ←		
	UPDATE →	→ IAM	
	200 OK UPDATE ←		

TP101005	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1,ii,a)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial A	
SIP selection criteria:	PICS 4/5	and the second of the second o
ISUP selection criteria:	PICS 1/6	
Test purpose:	both A-law (PCMA) and μ-law (PC precedence over A-law (PCMA) w	<b>9</b> ·
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2	
ISUP Parameter values:	IAM;	
Comments:	SIP SUT INVITE   183 Session Progress  PRACK	ISUP → IAM
	200 OK PRACK →	

TP101006	SIP reference: RFC 3261 [6]	ISUP reference:			
		ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1,ii,b)			
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Ac	ddress 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	st INVITE with sufficient digits, without an			
	SDP offer and reliable provisional responses	s are supported:			
		SDP offer including a media description with			
		MU) included and μ-law (PCMU) shall take			
	precedence over A-law (PCMA) wit	thin a 183 Session Progress message;			
		e Continuity indicator of the Nature of			
	Connection Indicators parameter sh	hall be set to "COT to be expected".			
OID D					
SIP Parameter	SIP: 183 SDP1; PRACK SDP2				
values:	14440 5 5 5 1 5 1 5 0074				
ISUP Parameter	IAM Continuity Indicator: COT to be expecte	d;			
values:	COT Continuity Indicator: continuity;				
Comments:	SIP SUT	BICC			
	INVITE →	→ IAM			
	183 Session Progress ←				
	PRACK →				
	200 OK PRACK ←				
	UPDATE →	→ COT			

TP101007	SIP reference: RFC 3261 [6]		reference:			
	ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1,ii,b)					
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Ac	ldress 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	st INVITE with sufficie	ent digits, <b>without an</b>			
	SDP offer and reliable provisional responses	s are supported:				
	<ul> <li>the SUT shall immediately send an</li> </ul>					
	both A-law (PCMA) and μ-law (PCM					
	precedence over A-law (PCMA) wit	hin a 183 Session Pro	ogress message;			
	sends a IAM message whereby the	•				
	Connection Indicators parameter is	set to "continuity che	ck required on this			
	circuit".					
SIP Parameter	CID: 402 CDD4: DDACK CDD2					
values:	SIP: 183 SDP1; PRACK SDP2					
ISUP Parameter	IAM Continuity Indicator: continuity chock re-	vuirad on this sirouit:				
values:	IAM Continuity Indicator: continuity check red	•				
Comments:	COT Continuity Indicator: continuity check successful;  SIP SUT ISUP					
Comments.	1					
	INVITE   IAM					
	183 Session Progress ← PRACK →					
	200 OK PRACK					
	UPDATE →	<b>→</b>	COT			

TP101008	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.1.1 (1,ii,b)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Ac	ldress message (IAM)/
SIP selection	PICS 4/4 AND PICS 4/5	
criteria:		
ISUP selection	PICS 1/6 AND NOT PICS 4/1	
criteria:		
Test purpose:	Ensure that if the SUT upon receipt of the first	st INVITE with sufficient digits, without an
	SDP offer and reliable provisional responses	s are supported:
		SDP offer including a media description with
		/IU) included and μ-law (PCMU) shall take
	precedence over A-law (PCMA) wit	hin a 183 Session Progress message;
	sending of the IAM shall be deferred	d until all preconditions have been met.
CID Devementor	OLD: 400 ODD4: DD4OK ODD0	
SIP Parameter	SIP: 183 SDP1; PRACK SDP2	
values:	LANA	
ISUP Parameter	IAM;	
values:	OLD OLD	IOLID
Comments:	SIP SUT	ISUP
	INVITE ->	
	183 Session Progress	
	PRACK	
	200 OK PRACK ←	
	UPDATE →	1004
	200 OK UPDATE ←	→ IAM

TP101009	SIP reference	e: RFC 3261 [6]	ISUP refe ITU-T Rec Q.1912.5 [		
TSS reference:	SIP-ISUP/Basic call/	Sending of the Initial Add	dress message (IAM)/		
SIP selection	NOT PICS 4/5				
criteria:					
ISUP selection criteria:	PICS 1/6				
Test purpose:	Ensure that if the SU- offer.	Γ upon receipt of the firs	t INVITE with sufficient o	digits, with an SDP	
	<ul> <li>the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer;</li> <li>the SUT shall immediately send out the IAM.</li> </ul>				
SIP Parameter values:	SIP INVITE: Audio R	ΓΡ/AVP 0, 200 OK: Audi	o RTP/AVP 8;		
ISUP Parameter values:	IAM USI: A-law or abs	sent;			
Comments:	SIP	SUT		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	180 Ringing	<del>(</del>	<del>(</del>	ACM	
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM	
		Conversation	Conversation		
	BYE	<b>→</b>	<b>→</b>	REL	
	200 OK BYE	<b>←</b>	<del>(</del>	RLC	

TP101010	SIP reference:	RFC 3261 [6]		P reference: 2.5 [1], clause 6.1.2 (i,2ai)		
TSS reference:	SIP-ISUP/Basic call/ Se	ending of the Initial Add				
SIP selection	PICS 4/4 AND PICS 4/5		, , , , , , , , , , , , , , , , , , ,			
criteria:						
ISUP selection	PICS 1/4 AND NOT PIC	CS 1/6 AND PICS 4/1				
criteria:						
Test purpose:	Ensure that if the SUT offer.	upon receipt of the firs	t INVITE with suffici	ient digits, with an SDP		
	<ul> <li>the SUT shall delete µ-law (PCMU), if present, from the media description that it will send back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the BICC side with the coding of the Nature of Connection Indicators parameter: "COT to be expected".</li> </ul>					
SIP Parameter values:	SIP INVITE: Audio R	TP/AVP 0, 200 OK: Au	idio RTP/AVP 8;			
ISUP Parameter	IAM Continuity Indicato	r: COT to be expected	, USI: A-law or abso	ent;		
values:	COT; Continuity Indicat					
Comments:	SIP	SUT		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	183 Session Progress	<del>(</del>				
	PRACK	<b>→</b>				
		200 OK PRACK				
	UPDATE → COT 200 OK UPDATE ←					
	180 Ringing	<del>-</del>	<b>←</b>	ACM		
	200 OK INVITE	<b>+</b>	÷	ANM		
	200 011 111112	Conversation	Conversation			
	BYE	<b>→</b>	<b>→</b>	REL		
	200 OK BYE	<b>←</b>	<b>←</b>	RLC		

TP101011	SIP reference: R	FC 3261 [6]		reference:	
				[1], clause 6.1.2 (i,2aii)	
TSS reference:	SIP-ISUP/Basic call/ Ser		ldress message (IAM	)/	
SIP selection	PICS 4/4 AND PICS 4/5				
criteria:					
ISUP selection criteria:	PICS 1/5 AND NOT PIC	S 1/6 AND PICS 4/1			
Test purpose:	Ensure that if the SUT u	pon receipt of the firs	st INVITE with sufficie	ent digits, with an SDP	
	<ul> <li>the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit".</li> </ul>				
SIP Parameter values:	SIP INVITE: Audio RTF	P/AVP 0, 200 OK: Au	ıdio RTP/AVP 8;		
ISUP Parameter	IAM Continuity Indicator:			USI: A-law or absent	
values:	COT Continuity Indicator	r: continuity check su	uccessful;		
Comments:	SIP	SUT		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	183 Session Progress	<b>←</b>			
	PRACK	<b>→</b>			
	200 OK PRACK	<del>(</del>	•	COT	
	UPDATE → COT 200 OK UPDATE ←				
	180 Ringing	<del>-</del>	<b>←</b>	ACM	
	200 OK INVITE	<del>-</del>	<del>-</del>	ANM	
	200 OK HAVITE	Conversation	Conversation		
	BYE	<b>→</b>	<b>→</b>	REL	
	200 OK BYE	<del>-</del>	<del>-</del>	RLC	

TP101012	SIP reference:	RFC 3261 [6]		JP reference: 12.5 [1], clause 6.1.2 (i,2b)	
TSS reference:	SIP-ISUP/Basic call/ Se	ending of the Initial Add			
SIP selection criteria:	PICS 4/4 AND PICS 4/5			r	
ISUP selection criteria:	NOT PICS 1/6 AND PIC	CS 4/1			
Test purpose:	offer.			cient digits, with an SDP  e media description that it	
	<ul> <li>the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer;</li> <li>the shall be deferred until all preconditions have been met.</li> </ul>				
SIP Parameter values:	SIP INVITE: Audio RTP	/AVP 0, 200 OK: Audi	o RTP/AVP 8		
ISUP Parameter values:	IAM USI: A-law or abse	nt			
Comments:	SIP INVITE 183 session Progress PRACK 200 OK PRACK	SUT		ISUP	
	UPDATE 200 OK UPDATE	<b>→</b>	<b>→</b>	IAM	
	180 Ringing	<b>←</b>	<b>←</b>	ACM	
	200 OK INVITE	<b>←</b> Conversation	<b>←</b> Conversat		
	BYE	<del>)</del>	<b>→</b>	REL	
	200 OK BYE	+	<del>-</del>	RLC	

TP101013	SIP referen	ce: RFC 3261 [6]		reference:		
	ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,1)					
TSS reference:	SIP-ISUP/Basic cal	I/ Sending of the Initial Add	dress message (IAM	1)/		
SIP selection	NOT 4/5					
criteria:						
ISUP selection	PICS 1/6					
criteria:						
Test purpose:	Ensure that if the S	UT upon receipt of the first	INVITE with suffici	ent digits, with an SDP		
	offer:					
	<ul> <li>the SUT s</li> </ul>	hall delete A-law (PCMA) i	f both A-law (PCMA	ι) and μ-law (PCMU)		
		ent in the offer of the media	a description, that it	will send it back in the		
	SDP answ	er;				
	<ul> <li>the SUT s</li> </ul>	hall immediately send out	the IAM.			
CID Devementes	OID INIVITE: A.	-1:- DTD/A\/D 0 0 000 O/	. A			
SIP Parameter		dio RTP/AVP 0 8, 200 OK	: Audio RTP/AVP U	; complete called party		
values:	information					
ISUP Parameter	IAM USI: μ-law					
values:	0.0					
Comments:	SIP	SUT	_	ISUP		
	INVITE → IAM					
	180 Ringing ← ← ACM					
	200 OK INVITE	200 OK INVITE ← ← ANM				
		Conversation	Conversatio			
	BYE	<b>→</b>	<b>→</b>	REL		
	200 OK BYE	<b>←</b>	+	RLC		

TP101014	SIP reference:	RFC 3261 [6]		reference: .5 [1], clause 6.1.2 (i,2ai)
TSS reference:			•	
SIP selection	PICS 4/4 AND PICS 4/5	5		
criteria:				
ISUP selection criteria:	PICS 1/4 AND PICS 1/6	6 AND PICS 4/1		
Test purpose:	Ensure that if the SUT offer:	upon receipt of the firs	t INVITE with sufficie	ent digits, <b>with an SDP</b>
	<ul> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the BICC side with the coding of the Nature of Connection Indicators parameter: "COT to be expected".</li> </ul>			
SIP Parameter values:	SIP INVITE: Audio F	RTP/AVP 0 8, 200 OK	: Audio RTP/AVP 0	
ISUP Parameter values:	IAM USI: μ-law			
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	183 Session Progress	<b>←</b>		
	PRACK	<b>→</b>		
	200 OK PRACK	<b>←</b>		
	UPDATE	<b>→</b>	<b>→</b>	COT
	200 OK UPDATE	<del>(</del>	_	A O N 4
	180 Ringing 200 OK INVITE	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	Conversation	Conversation	ANM
	BYE	-	Conversation	REL
	200 OK BYE	<del></del>	<del></del>	RLC
[	200 OK DIL			INLO

TP101015	SIP reference:	RFC 3261 [6]		ference:		
				l], clause 6.1.2 (i,2aii)		
TSS reference:	SIP-ISUP/Basic call/ Se		ldress message (IAM)/			
SIP selection	PICS 4/4 AND PICS 4/5	5				
criteria:						
ISUP selection	PICS 1/5 AND PICS 1/6	6 AND PICS 4/1				
criteria:						
Test purpose:	ensure that if the SUT offer:	upon receipt of the fire	st INVITE with sufficient	digits, with an SDP		
	<ul> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and µ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit".</li> </ul>					
SIP Parameter values:	SIP INVITE: Audio F	RTP/AVP 0 8, 200 OK	: Audio RTP/AVP 0			
ISUP Parameter	IAM USI: µ-law					
values:	μ-ιανν					
Comments:	SIP	SUT		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	183 Session Progress	<del>-</del>				
	PRACK	<b>→</b>				
	200 OK PRACK	200 OK PRACK ←				
	UPDATE → COT					
	200 OK UPDATE ←					
		180 Ringing ← ← ACM				
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM		
	D)/E	Conversation	Conversation	DEI		
	BYE	<b>→</b>	<b>→</b>	REL		
	200 OK BYE	+	<del>-</del>	RLC		

TP101016	SIP reference: R	RFC 3261 [6]	ISU	P reference:	
			ITU-T Rec Q.191:	2.5 [1], clause 6.1.2 (i,2b)	
TSS reference:	SIP-ISUP/Basic call/ Ser	nding of the Initial Add	dress message (IAI	M)/	
SIP selection	PICS 4/4 AND PICS 45				
criteria:					
ISUP selection criteria:	PICS 1/6 AND PICS 4/1				
Test purpose:	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with an SDP offer.</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be deferred until all preconditions have been met.</li> </ul>				
SIP Parameter	SIP INVITE: Audio R	TP/AVP 0 8, 200 OK:	Audio RTP/AVP 0		
values:	on interior		7.00.0 7.11 77.00	,	
ISUP Parameter values:	IAM USI: μ-law;				
Comments:		SUT → ←		ISUP	
	UPDATE 200 OK UPDATE	<b>→</b> ←	<b>→</b>	IAM	
	180 Ringing ← ← ACM				
	200 OK INVITE ← ANM Conversation Conversation				
			-	REL	
	200 OK BYE	<del>+</del>	<b>+</b>	RLC	

TP101017	SIP reference	e: RFC 3261 [6]	ITU-T Re	reference: c Q.1912.5 [1] 1.3.2, 6.1.3.3 and 6.1.3.4
TSS reference:	SIP-ISUP/Basic call/	Sending of the Initial Add		
SIP selection criteria:	PICS 1/2			,
ISUP selection criteria:	NOT PICS 1/9			
Test purpose:	<ul> <li>sends an IA calling subset follows:</li> <li>Satellite indi</li> </ul>	on receipt of an INVITE of the Month of the Month of the Mature of Control of the Mature of Control of the Month of the Mo	Calling party's categornnection Indicator te circuit in the conn	
SIP Parameter values:				
ISUP Parameter values:	Nature of Connection Satellite indicator set	on Indicators (NCI): to: "One satellite circuit i	in the connection"	
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<del>(</del>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
	->/-	Conversation	Conversation	' <del>-</del>
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<del></del>	+	RLC

TP101018	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 6.1.3.1, 6.1.3.2, 6.1.3.3 and 6.1.3.4
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Ac	
SIP selection	PICS 1/2	and the state of t
criteria:		
ISUP selection criteria:	PICS 1/9 AND NOT PICS 4/23	
Test purpose:	Ensure that the SUT on receipt of an INVITE	message:
	calling subscriber", the Nature of C follows:	Calling party's category is set to "Ordinary onnection Indicators (NCI) encoded as satellite circuit in the connection".
	- Satellite indicator set to. One	satellite circuit in the connection.
		orking encountered ser part/BICC not used all the way tor: ISDN user part/BICC not required all the
SIP Parameter values:		
ISUP Parameter values:	Nature of Connection Indicators (NCI): Satellite indicator set to: "One satellite cir Forward Call Indicators (FCI): Interworking indicator: interworking encou ISDN user part indicator: ISDN user part/ ISDN access indicator: originating access ISDN user part preference indicator: ISDI	untered BICC not used all the way s non-ISDN
Comments:	SIP SUT	ISUP
	INVITE -	→ IAM
	180 Ringing ← 200 OK INVITE ←	← ACM ← ANM
	Conversation	Conversation
	BYE -	REL
	200 OK BYE ←	← RLC

TP101019	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1],		
		clauses 6.1.3.1, 6.1.3.2, 6.1.3.3 and 6.1.3.4		
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Ad	dress message (IAM)/		
SIP selection criteria:	PICS 1/1 AND NOT PICS 4/24			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT on receipt of an INVITE	message:		
		Calling party's category is set to "Ordinary onnection Indicators (NCI) encoded as		
	- Satellite indicator set to: one s	atellite circuit in the connection"		
	- Echo control device indicator s included".	set to: "Outgoing echo control device		
	- the Forward call indicator is encoded as follows Interworking indicator: Interworking encountered ISUP/BICC Indicator: ISDN User part/BICC not used all the way ISUP/BICC Preference indicator: ISDN user part/BICC not required all the way ISDN access indicator: Originating access non-ISDN			
SIP Parameter values:				
ISUP Parameter	Nature of Connection Indicators (NCI):			
values:	Satellite indicator set to: "one satellite circ Echo control device indicator set to: "O  Forward Call Indicators (FCI): Interworking indicator: interworking encou ISDN user part indicator: ISDN user part/I ISDN access indicator: originating access ISDN user part preference indicator: ISDN	outgoing echo control device included"  Intered  BICC not used all the way  non-ISDN		
Comments:	SIP SUT	ISUP		
	INVITE → 180 Ringing ←	→ IAM ← ACM		
	200 OK INVITE ←	<b>←</b> ANM		
	Conversation BYF →	Conversation		
	BYE → 200 OK BYE ←	→ REL ← RLC		
	200 ON DIE	, INLO		

TP101020	SIP reference	: RFC 3261 [6]	ISUP ref	erence:
			ITU-T Rec Q.1912.5	[1], clause 6.1.3.5
TSS reference:	SIP-ISUP/Basic call/ S	Sending of the Initial Add	lress message (IAM)/	
SIP selection	Based on table 1			
criteria:				
ISUP selection				
criteria:				
Test purpose:		n the Idle state on receip		
	media description defi	ned with the "a =" "b =" $^{\circ}$	and "m=" lines set to a_	_b_m_LINE_VALUE:
		<ul> <li>sends an IAM message, with the Transmission Medium Requirement (TMR)</li> </ul>		
	parameter se	et to TMR_VALUE.		
OID D	INDUITE I LINE	\/ALLIE		
SIP Parameter	INVITE; a_b_m_LINE	_VALUE		
values:	LANA TARD TOUR TARE	<u> </u>		
ISUP Parameter	IAM; TMR: ISUP_TMF	{		
values:	0.0			
Comments:	SIP	SUT	_	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	+	+	RLC

Table 1

			a_b_m_	LINE_VALUE		
		m= line		b= line	a= line	TMR_VALUE
test purposes	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<pre><modifier>:<bandwidth -value=""></bandwidth></modifier></pre>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>	TMR codes
				see note 1		
VA_01	audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	"3,1KHz audio"
VA_02	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	"3,1KHz audio"
VA_03	audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	"3,1KHz audio"
VA_04	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	"3,1KHz audio"
VA_05	audio	RTP/AVP	9	AS:64 kbit/s	rtpmap:9 G722/8000	"64 kbit/s preferred"
VA_06	audio	RTP/AVP	Dynamic PT	AS:64 kbit/s	rtpmap: <dynamic-pt> CLEARMODE/8000 (see note 2)</dynamic-pt>	"64 kbit/s unrestricted"
VA_07	image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38	"3,1 KHz audio"
VA_08	image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38	"3,1 KHz audio"

NOTE 1: <br/>
NOTE 2: CLEARMODE has been standardized.

TP101021	SIP reference	: RFC 3261 [6]		reference:  2.5 [1], clause 6.1.3.5
TSS reference:	SIP-ISLIP/Basic call/ S	Sending of the Initial Add		
SIP selection criteria:	Based on table 2	or the initial Act	iress message (ir iir	yr
ISUP selection criteria:				
Test purpose:	description defined wit	n the Idle state on receipth the "a = " "b =" and "n  I message, with the use  IE_VALUE	n=" lines set to a_b_	_m_LINE_VALUE:
values:				
ISUP Parameter values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	n
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	+	+	RLC

Table 2

			a_b_n	n_LINE_VALUE			
		m= line		b= line	A= line	USI_VAI	_UE
test purposes	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandwidth- value&gt;</bandwidth- </modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>	Information Transport Capability	User Information Layer 1 Protocol Indicator
				see note 1			
VA_01	Audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	"3,1KHz audio"	"G.711 μ-law"
VA_02	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	"3,1KHz audio"	"G.711 μ-law"
VA_03	Audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	"3,1KHz audio"	"G.711 A-law"
VA_04	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	"3,1KHz audio"	"G.711 A-law"
VA_05	Audio	RTP/AVP	9	AS:64 kbit/s	rtpmap:9 G722/8000	"Unrestricted digital inf. w/tones/ann"	
VA_06	Audio	RTP/AVP	Dynamic PT	AS:64 kbit/s	rtpmap: <dynamic-pt> CLEARMODE/8000 (see note 2)</dynamic-pt>	"Unrestricted digital information"	
VA_07	image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38	"3,1KHz audio"	
VA 08	image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38	"3,1KHz audio"	

TP101022	SIP reference	e: RFC 3261 [6]		Preference: 12.5 [1], clause 6.1.3.5
TSS reference:	SIP-ISUP/Basic call/	Sending of the Initial Add		
SIP selection criteria:	Based on table 3	conding of the militar Acc	aroos moosags (ma	,
ISUP selection criteria:				
Test purpose:	sends an IAI     HLC information	M message with the <b>Acc</b> ation element.	n=" lines to lines set	to a_b_m_LINE_VALUE:
SIP Parameter values:	INVITE: a_b_m_LIN	NE_VALUE		
ISUP Parameter values:	IAM; Access transpo	ort parameter HLC: HLC	C_VALUE	
Comments:	SIP INVITE 180 Ringing 200 OK INVITE BYE 200 OK BYE	SUT    ←  ←  Conversation  →	→ ← ← Conversatio	ISUP IAM ACM ANM on REL RLC

Table 3

			Val	ues for test purposes TP10102	2	
	M= line b= line	a= line	HLC parameter HLC 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&gt;</clock></encoding></dynamic-pt>	HLC_VALUE
				see note 1		
/A_01	Audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	See note 2
/A_02	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	See note 2
/A_03	Audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	See note 2
/A_04	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	See note 2
/A_05	Image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38	"Facsímile Group 2/3"
/A_06	Image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38	"Facsímile Group 2/3"

NOTE 1: <bandwidth value> for <modifier> of AS is evaluated to be B kbit/s.

NOTE 2: HLC normally absent in this case. It is possible for HLC to be present with the value "Telephony", although clause 6.3.1/ITU-T Rec Q.939 [13] indicates that this would normally be accompanied by a value of "Speech" for the Information Transfer Capability element.

TP101023	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.9
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	dress message (IAM)/
SIP selection criteria:		•
ISUP selection criteria:	PICS 4/3	
Test purpose:	Ensure that the SUT for Profiles A and B the I parameter value from the Max-Forwards head Counter for a given message should never inceach successive visit to an IWU, regardless of Max-Forwards in the SIP domain.	der field value by applying a factor. The Hop crease and should decrease by at least 1 with
SIP Parameter values:		
ISUP Parameter values:	IAM: Hop Counter parameter value	
Comments:	SIP SUT INVITE   180 Ringing   200 OK INVITE   The initial and successively mapped values of accommodate the maximum number of hops call.	

TP101024	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,1)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	dress message (IAM)/
SIP selection	PICS 1/9	
criteria:		
ISUP selection	NOT PICS 1/7	
criteria:		
Test purpose:	the format: +CC NDC SN where CC is the coun terminates, then set Nature of Addre number", remove "+CC" and use the	equest-URI:  n received URI with user=phone, and if it is in try code of the network in which the next hop ess indicator to "National (significant) e remaining digits to fill the Address signals".  routing to internal network number not
	, and the second	
SIP Parameter values:		
ISUP Parameter values:	IAM: Called party number	
Comments:	SIP SUT	ISUP
	INVITE →	→ IAM
	180 Ringing ←	<b>←</b> ACM
	200 OK INVITE	<b>←</b> ANM
	Conversation	Conversation
	BYE -	→ REL
	200 OK BYE ←	<b>←</b> RLC

TP101025	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,1)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	
SIP selection	PICS 1/9	<b>V</b> ( )
criteria:		
ISUP selection	PICS 1/7	
criteria:		
Test purpose:	the format: +CC NDC SN where CC is not the composition hop terminates, then set Nature of Arremove "+" and use the remaining di Internal Network Number Indicator: reallowed.  Numbering plan Indicator: 001 ISD	received URI with user=phone, and if it is in puntry code of the network in which the next ddress indicator to "International number", gits to fill the Address signals.  Outing to internal network number not
	Address Signals CC NDC SN.	
SIP Parameter values:		
ISUP Parameter	IAM: Called party number	
values:		
Comments:	SIP SUT	ISUP
	INVITE -	→ IAM
	180 Ringing ←	← ACM
	200 OK INVITE ←	← ANM
	BYE ->	→ REL
	200 OK BYE <b>←</b>	<b>←</b> RLC

TP101026	SIP reference:	RFC 3261 [6]	ISUP ref	erence:
			ITU-T Rec 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 1/9			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT on			party number
	contained in the userinf	o component of the Re	equest-URI:	
	Internal Netwo	ark Number Indicator: r	outing to internal netwo	ork number not
	allowed.	ik Number mulcator. I	outing to internal netwo	ork number not
	anomou.			
	Numbering plan Indicator: 001 ISDN (Telephony) numbering plan.			
	<ul> <li>Address Signa</li> </ul>	als.		
SIP Parameter				
values:				
ISUP Parameter	IAM: Called party	number		
values:	, ,			
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<del>(</del>	<b>←</b>	ACM
	200 OK INVITE	<del>(</del>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

TP101027	SIP reference:	RFC 3261 [6]		eference:
			110-1 Rec Q.1912.	5 [1], clause 6.1.2 (i,1)
TSS reference:	SIP-ISUP/Basic call/ S	ending of the Initial Add	dress message (IAM)	1
SIP selection criteria:	PICS 1/9			
ISUP selection criteria:	PICS 1/7			
Test purpose:	Ensure that the SUT on receipt of an INVITE message with a SDP offer for μ-Law and a-Law, then independent from the received order of preference:  the G.711 a-law codec shall be returned in the SDP answer as preferred codec.			
SIP Parameter	Offer: m=audio 4711 RTP/AVP 0 8			
values:	Answer: m=audio 4712 RTP/AVP 8 0			
ISUP Parameter				
values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<del>(</del>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

TP101028	SIP reference:	RFC 3261 [6]	ISUP re	eference:
			ITU-T Rec Q.1912.5	[1], clause 6.1.2 (i,1)
TSS reference:	SIP-ISUP/Basic call/ Se	ending of the Initial Add	lress message (IAM)/	
SIP selection	PICS 1/9			
criteria:				
ISUP selection	PICS 1/7			
criteria:				
Test purpose:	Ensure that the SUT on			
	μ-Law, then independe	ent the normal offer a	nswer procedures a	pply:
	the G.711 a-law codec shall be returned in the SDP answer.			
010.0		4 DTD/41/D 0		
SIP Parameter		1 RTP/AVP 8		
values:	Answer: m=audio 471	1 RTP/AVP 8		
ISUP Parameter				
values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

TP101029	SIP reference: RFC 3261 [	6]		GUP reference: 912.5 [1], clause 6.1.2 (i,1)
TSS reference:	SIP-ISUP/Basic call/ Sending of the	Initial Add	dress message (	IAM)/
SIP selection criteria:	PICS 1/9			
ISUP selection criteria:	PICS 1/7			
Test purpose:	Ensure that the SUT on receipt of a codec:  • the u-law codec shall be		message with a	SDP offer <b>without a-law</b>
SIP Parameter	Offer: m=audio 4711 RTP/AVP	0		
values:	Answer: m=audio 0 RTP/AVP 0			
ISUP Parameter values:				
Comments:	SIP CASE A	SUT		ISUP
	INVITE →		<b>→</b>	IAM
	180 Ringing ←		<del>(</del>	ACM
	200 OK INVITE ←		+	ANM

TP101030	SIP reference: RFC 3261 [6]	ISUP reference:		
		ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,1)		
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	dress message (IAM)/		
SIP selection	PICS 1/9 AND PICS 4/19			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT on receipt of an INVITE	· ·		
	one media streams and based on operator	one media streams and based on operator policy then:		
	the call is refused with a 415 Unsu	upported media type response.		
SIP Parameter	Offer: m=audio 4711 RTP/AVP 8			
values:	m= audio 4712 RTP/AVP 8			
ISUP Parameter				
values:				
Comments:	SIP	SUT ISUP		
	CASE A			
	INVITE →			
	415 Unsupported media type			
	ACK →			

TP101031	SIP reference: RFC 3261 [6]	ISUP reference:	
TCC reference.		ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,1)	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	dress message (IAM)/	
SIP selection	PICS 1/9 AND NOT PICS 4/19		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT on receipt of an INVITE		
	one media streams and based on operator	policy then:	
	<ul> <li>if the SDP offer contains one or m</li> </ul>	ore audio type media streams and one or	
	more non-audio type media strear	n, only the audio streams shall be	
	considered; the other streams sha	all be rejected;	
	•		
	if the SDP offer contains several audio type media streams, the IWU shall		
	only consider one, and reject the		
SIP Parameter	Offer: m=audio 4711 RTP/AVP 8		
values:	m= audio 4712 RTP/AVP 8		
	m= video 4713 RTP/AVP 31		
	Answer: m=audio 4711 RTP/AVP 8		
	m=audio 0 RTP/AVP 8		
	m=video 0 RTP/AVP 31		
ISUP Parameter			
values:			
Comments:	SIP SUT	ISUP	
	CASE A		
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	

TP101032	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1],	
		clauses 6.1.3.1, 6.1.3.2, 6.1.3.3 and 6.1.3.4	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Add	dress message (IAM)/	
SIP selection	PICS 1/2 AND PICS 1/9 AND PICS 4/23		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT on receipt of an INVITE I	message:	
	sends an IAM message, where the Calling party's category is set to "Ordinary calling subscriber", the Nature of Connection Indicators (NCI) encoded as follows:		
	- Satellite indicator set to: "One satellite circuit in the connection".		
	- the Forward call indicator is encoded as follows		
	Interworking indicator: No interworking encountered		
	ISUP/BICC Indicator: ISDN User part/BICC used all the way		
	ISUP/BICC Preference indicator: ISDN user part/BICC not required all the		
	way ISDN access indicator: Originating access ISDN.		
	ISDN access indicator: Origina	ting access ISDN.	
SIP Parameter			
values:			
ISUP Parameter	Nature of Connection Indicators (NCI):		
values:	Satellite indicator set to: "One satellite circ	uit in the connection"	
	Forward Call Indicators (FCI):		
	Interworking indicator: No interworking end	countered	
	ISDN user part indicator: ISDN user part/B		
	ISDN access indicator: originating access		
	ISDN user part preference indicator: ISDN	user part/BICC not required all the way	

## 6.2.1.2 Sending of the Subsequent Address Message (SAM)

TP102001	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.2 a)	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Subsequent Address Message (SAM)/		
SIP selection	PICS 3/4		
criteria:			
ISUP selection	PICS 3/8		
criteria:			
Test purpose:	Ensure that the SUT receives an INVITE with the same Call-ID and From tag as a previous INVITE which was associated with a BICC/ISUP call/bearer control instance currently existing on the BICC/ISUP side whereby the number of digits in the Request-URI is greater than the number of digits already accumulated for the call:  Sends a SAM and pass it to outgoing BICC/ISUP procedures.  The SAM shall contain in its Subsequent Number parameter only the additional digits received in this Request-URI compared with the digits already accumulated for the call.		
SIP Parameter			
values:			
ISUP Parameter	SAM; subsequent number (PIXIT)		
values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	
	INVITE →	→ SAM	
	INVITE →	→ SAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE	<b>←</b> ANM	

TP102002	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.2 b)	
TSS reference:	SIP-ISUP/Basic call/ Sending of the Subseque	ent Address Message (SAM)/	
SIP selection	PICS 3/4		
criteria:			
ISUP selection	PICS 3/8		
criteria:			
Test purpose:	Ensure that the SUT receives an INVITE with the same Call-ID and From tag as a previous INVITE which was associated with a BICC/ISUP call/bearer control instance currently existing on the BICC/ISUP side whereby the number of digits in the Request-URI is <b>fewer</b> than the number of digits already accumulated for the call:  Then the SUT shall immediately send a <b>484 Address Incomplete</b> response for this INVITE.  In this case no SAM is sent to BICC/ISUP procedures.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	
	INVITE ->		
	484 Address incomplete		

## 6.2.1.3 Sending of COT

TP103001	SIP reference:	RFC 3261 [6]		JP reference: .1912.5 [1], clause 6.3
TSS reference:	SIP-ISUP/Basic call/CC	T		
SIP selection criteria:	PICS 4/4 AND PICS 4/5	5		
ISUP selection criteria:	PICS 1/4 AND PICS 4/	1		
Test purpose:	side have been met and successfully completed  the SUT shall	d any continuity prod :	cedures on the outgo	ions on the incoming SIP bing BICC side have been inuity Indicator in the COT
SIP Parameter values:				
ISUP Parameter	COT continuity indicato	r: Continuity;		
values:		•		
Comments:	SIP INVITE 183 Session Progress PRACK 200 OK PRACK UPDATE 200 OK UPDATE 180 Ringing 200 OK INVITE	SUT + + + + + + + +	→ ←	BICC IAM COT ACM ANM

TP103002	SIP reference: RFC 326	1 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.3
TSS reference:	SIP-ISUP/Basic call/ COT		110 1 Net 4:1012:0 [1], that se to
SIP selection criteria:	PICS 4/4 AND PICS 4/5		
ISUP selection criteria:	PICS 1/5 AND PICS 4/1		
Test purpose:	side have been met and any consuccessfully completed:	tinuity proce COT mess	at all the preconditions on the incoming SIP dures on the outgoing ISUP side have been age where the Continuity Indicator in the COT check successful.
SIP Parameter values:			
ISUP Parameter values:	COT continuity indicator: Continu	ity check su	ccessful;
Comments:	SIP INVITE  183 Session Progress PRACK  200 OK PRACK UPDATE  200 OK UPDATE  200 OK INVITE	SUT	→ ISUP IAM  COT ANM

#### 6.2.1.4 Receipt of the Address Complete Message (ACM)

TP104001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.5, 2)	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Address c		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT on receipt of an ACM message where the Called party status indicator is set to "no indication":  • in the case of Profile A or Profile B, the ACM is not interworked.		
SIP Parameter values:			
ISUP Parameter values:	ACM Called party status: no indication;		
Comments:	SIP SUT INVITE →	ISUP → IAM ← ACM	

TP104002	SIP re	eference: RFC 3261 [6]	ISUP refe ITU-T Rec Q.1912.5	
TSS reference:	SIP-ISUP/Bas	sic call/ Receipt of the Address of	complete message (ACN	1)/
SIP selection criteria:		·		
ISUP selection criteria:				
Test purpose:	Ensure that the SUT on receipt of an ACM message where the Called party status indicator is set to "subscriber free" where the ISUP indicator parameter set to ISUP_ID, the ISDN access indicator set to ISDN_ACCES_ID and the OBCI in-band information set to OBCI_INBAND then:  • in case of Profile A or Profile B, the 180 Ringing SIP response is sent. Ensure that the in-band information can be transmitted to the calling user.			
SIP Parameter values:				
ISUP Parameter	ACM FCI:	ISUP_ID, ISDN_ACCESS_ID		
values:	OBCI:	OBCI_INBAND;		
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
		Ringing tone	Ringing tone	

Table 4

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 access indicator: ISDN
	OBCI_INBAND: yes

### 6.2.1.5 Receipt of the Call progress message (CPG)

TP105001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.6	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Call pro		
SIP selection criteria:		5 V ,	
ISUP selection criteria:			
Test purpose:	Ensure that the SUT, having received the ACM message called party status indicator "no indication", on receipt of a CPG message where the <b>event information parameter event indicator</b> is set to "Alerting":  the 180 Ringing SIP response is sent.		
SIP Parameter values:			
ISUP Parameter	ACM: Called party status "no indication"		
values:	CPG; event information parameter event indicator: Alerting		
Comments:	SIP SU	T ISUP	
	INVITE →	→ IAM	
		<b>←</b> ACM	
	180 Ringing ←	<b>←</b> CPG	

TP105002	SIP reference: RFC	3261 [6]		UP reference:
			ITU-T Rec	Q.1912.5 [1], clause 6.6
TSS reference:	SIP-ISUP/Basic call/ Receip	t of the Call progr	ess message (CF	PG).
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT, having			
	indication", on receipt of a C		re the <b>event info</b>	rmation parameter event
	indicator is set to "Progress":			
	<ul> <li>the CPG is not inte</li> </ul>	rworked.		
SIP Parameter				
values:				
ISUP Parameter	ACM: Called party statu	s "no indication"		
values:	CPG; event information pa	rameter event in	dicator: Progress	5
Comments:	SIP	SUT		ISUP
	INVITE →		<b>→</b>	IAM
			<b>←</b>	ACM
			+	CPG

TP105003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.6	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Call progr	ess message (CPG).	
SIP selection criteria:		•	
ISUP selection criteria:			
Test purpose:	Ensure that the SUT, having received the ACM message called party status indicator "no indication", on receipt of a CPG message where the <b>event information parameter event indicator</b> is set to "in-band information or an appropriate pattern is now available":  • the CPG is not interworked.		
SIP Parameter values:			
ISUP Parameter values:	ACM: Called party status "no indication" CPG; event information parameter event indicator: in-band-information or an appropriate pattern is now available		
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	
		<b>←</b> ACM	
		<b>←</b> CPG	

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

TP106001	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.7	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Answer me	essage (ANM).	
SIP selection			
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT, having received the ACM "subscriber free", on receipt of an ANM messa		
	sends a 200 OK INVITE to the UAC.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	The bearer path shall be connected in both directions when both of the following conditions are satisfied:  • the BICC outgoing bearer set-up procedure, (ITU-T Rec Q.1902.4 [4]) is successfully completed, and;		
	the I-IWU determines (using the procedures defined in RFC 3312 [7]) 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 [7]) that sufficient preconditions have been met for the session to proceed.		
	SIP SUT	ISUP	
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	

TP106002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.7
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Answer m	
SIP selection	PICS 4/5	oodago (/ ii iii).
criteria:		
ISUP selection		
criteria:		
Test purpose:	No SDP offer received in the INVITE. Ensure message Called party status indicator set to "s message:  • sends a 200 OK INVITE to the UAC.	subscriber free", on receipt of an ANM
SIP Parameter		
values:		
ISUP Parameter		
values:		
Comments:		cedure, (ITU-T Rec Q.1902.4 [4]) is cedures defined in RFC 3312 [7]) that sufficient the SIP side for session establishment to bearer set-up in the forward direction" nnect Type is "notification not required", the ons when the Bearer Set-up request is sent dures defined in RFC 3312 [7]) that sufficient
	SIP SUT INVITE → 183 Session Progress(SDP) ← PRACK(SDP) → 200 OK (PRACK) ← 180 Ringing ← 200 OK INVITE	→ IAM  ← ACM ← ANM

TP106003	SIP reference: RFC 3261 [6]	ISUP reference:
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Answer m	ITU-T Rec Q.1912.5 [1], clause 6.7
SIP selection	NOT PICS 4/5	essage (AINW).
criteria:	NOT PICS 4/5	
ISUP selection		
criteria:		
Test purpose:	SDP offer was not received in the initial INVIT	E Ensure that the SLIT having received the
rest purpose.	ACM message, on receipt of an ANM messag	
	sends a 200 OK INVITE to the UAC.     offer consistent with the TMR/USI us	The 200 OK INVITE shall include an SDP sed on the BICC/ISUP side.
SIP Parameter	200 OK INVITE includes an SDP offer	
values:	ACK includes an SDP answer	
ISUP Parameter values:		
Comments:		cedure, (ITU-T Rec Q.1902.4 [4]) is cedures defined in RFC 3312 [7]) that sufficient the SIP side for session establishment to bearer set-up in the forward direction" nnect Type is "notification not required", the ons when the Bearer Set-up request is sent dures defined in RFC 3312 [7]) that sufficient

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

TP107001	SIP reference: RFC 3261 [6]	ISUP reference:	
TCC reference.	CID ICUID/Desis cell/ Dessint of the CONNICC	ITU-T Rec Q.1912.5 [1], clauses 6.4 and 6.7	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the CONNEC	i message (CON).	
SIP selection criteria:			
ISUP selection			
criteria:			
Test purpose:	<b>SDP offer was received</b> in the initial INVITE. message:	Ensure that the SUT, on receipt of an CON	
	sends a 200 OK INVITE to the UAC.		
SIP Parameter			
values:			
ISUP Parameter values:			
Comments:	The bearer path shall be connected in both directions when both of the following conditions are satisfied:		
	the BICC outgoing bearer set-up procedure, (ITU-T Rec Q.1902.4 [4]) is successfully completed, and;		
	<ul> <li>the I-IWU determines (using the procedures defined in RFC 3312 [7]) that sufficient preconditions have been satisfied on the SIP side for session establishment to proceed (if applicable).</li> </ul>		
	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 [7]) that sufficient preconditions have been met for the session to proceed.		
	SIP SUT INVITE → 200 OK INVITE ←	ISUP → IAM ← CON	

TP107002	SIP reference: RFC 3261 [6]		reference:
<i>(</i>			[1], clauses 6.4 and 6.7
TSS reference:	SIP-ISUP/Basic call/ Receipt of the CONNEC	I message (CON).	
SIP selection	PICS 4/5		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT, on receipt of an CON me	essage:	
	sends a 200 OK INVITE to the UAC.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	The bearer path shall be connected in both dire satisfied:  the BICC outgoing bearer set-up prosuccessfully completed; and  the I-IWU determines (using the propreconditions have been satisfied on proceed (if applicable).  In addition, if BICC is performing the "Per-call Outgoing bearer set-up procedure and the Cobearer path shall be connected in both direction and the I-IWU determines (through the procedure conditions have been met for the session to	cedure, (ITU-T Rec Content of the SIP side for session bearer set-up in the finnect Type is "notifications when the Bearer lures defined in RFC	2.1902.4 [4]) is  FC 3312 [7]) that sufficient sion establishment to  forward direction" ation not required", the Set-up request is sent
	SIP SUT INVITE → 183 Session Progress(SDP) ←		ISUP
	PRACK(SDP)  200 OK PRACK  200 OK INVITE  ←	<b>→</b>	IAM CON

TP107003	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 6.4 and 6.7	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Answer message (CON).		
SIP selection criteria:	NOT PICS 4/5		
ISUP selection criteria:			
Test purpose:	SDP offer was not received in the initial INVITE. Ensure that the SUT, on receipt of an CON message:  • sends a 200 OK INVITE to the UAC. The 200 OK INVITE shall include an SDP offer consistent with the TMR/USI used on the BICC/ISUP side.		
	oner consistent with the Twity our da	sed on the Bioo/1001 side.	
SIP Parameter values:	200 OK INVITE includes an SDP offer		
ISUP Parameter values:			
Comments:	The bearer path shall be connected in both directions when both of the following conditions are satisfied:		
	The BICC outgoing bearer set-up procedure, (ITU-T Rec Q.1902.4 [4]) is successfully completed, and		
	<ul> <li>The I-IWU determines (using the procedures defined in RFC 3312 [7]) that sufficient preconditions have been satisfied on the SIP side for session establishment to proceed (if applicable).</li> </ul>		
	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 [7]) that sufficient preconditions have been met for the session to proceed.		
	SIP SUT INVITE → 200 OK INVITE ←	ISUP → IAM ← CON	

#### 6.2.1.8 Receipt of the REL message

TP108001	SIP reference: RFC 3261 [6]	ISUP reference:
<i>(</i>		ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release r	message (REL)/
SIP selection	NOT PICS 4/10	
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:     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.	
SIP Parameter values:	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)	
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)	
values:		
Comments:	SIP SUT	ISUP
	INVITE ->	<b>→</b> IAM
	SIP_FAILURE_VA	<b>←</b> REL
	ACK →	→ RLC

Table 5

	Values for test purpose TP108001		
	←SIP Message	← REL	
	SIP_FAILURE_VA	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 ("Preemption")	
VA_7	500 Server Internal Error	Cause Value No. 9 ("Preemption-circuit reserved for reuse")	
VA_8	486 Busy Here	Cause Value No. 17 ("user busy")	
VA_9	480 Temporarily unavailable	Cause Value No. 18 ("no user responding")	
VA_10	480 Temporarily unavailable	Cause Value No. 19 ("no answer from the user")	
VA_11	480 Temporarily unavailable	Cause Value No. 20 ("subscriber absent")	
VA_12	480 Temporarily unavailable	Cause Value No. 21 ("all rejected")	
VA_13	410 Gone	Cause Value No. 22 ("number changed")	
VA_14	480 Temporarily unavailable	Cause Value No. 25 ("Exchange routing error")	
VA_15	502 Bad Gateway	Cause Value No. 27 ("destination out of order")	
VA_16	484 Address Incomplete	Cause Value No. 28 ("invalid number format (address incomplete")	
VA_17	500 Server Internal Error	Cause Value No. 29 ("facility rejected")	
VA_18	480 Temporarily unavailable	Cause Value No. 31 ("normal unspecified") (Class default)	
VA_19	486 Busy here if Diagnostics indicator	Cause Value in the Class 010 (No circuit/channel available,	
_	includes the (CCBS indicator = CCBS	Cause Value No. 34)	
	possible)	,	
	else 480 Temporarily unavailable		
VA_20	500 Server Internal Error	Cause Value in the Class 010 (resource unavailable,	
		Cause Value No. 38-47)	
		(47 is class default)	
VA_21	500 Server Internal Error	Cause Value No. 50 ("requested facility not subscribed")	
VA_22	500 Server Internal Error (SIP-I only)	Cause Value No. 55 ("incoming calls barred within CUG")	
VA_23	500 Server Internal Error	Cause Value No. 57 ("bearer capability not authorized")	
VA_24	500 Server Internal Error	Cause Value No. 58 ("bearer capability not presently")	
VA_25	500 Server Internal Error	Cause Value No. 63 ("service option not available,	
		unspecified")	
		(Class default)	
VA_26	500 Server Internal Error	Cause Value in the Class 100 (service or option not	
		implemented Cause Value No. 65 - 79)	
\/A 07	500 Com ton Interior - I Surrey	(79 is class default)	
VA_27	500 Server Internal Error	Cause Value No. 87 ("user not member of CUG")	
VA_28	500 Server Internal Error	Cause Value No. 88 ("incompatible destination")	
VA_29	500 Server Internal Error	Cause Value No. 90 ("Non-existent CUG")	
VA_30	404 Not Found	Cause Value No. 91 ("invalid transit network selection")	
VA_31	500 Server Internal Error	Cause Value No. 95 ("invalid message") (Class default)	
VA_32	500 Server Internal Error	Cause Value No. 97 ("Message type non-existent or not implemented")	
VA_33	500 Server Internal Error	Cause Value No. 99 ("information element/parameter non-existent or not implemented")	
VA_34	480 Temporarily unavailable	Cause Value No. 102 ("recovery on timer expiry")	
VA_35	500 Server Internal Error	Cause Value No. 103 ("Parameter non-existent or not implemented, pass on")	
VA_36	500 Server Internal Error	Cause Value No. 110 ("Message with unrecognized Parameter, discarded")	
VA_37	500 Server Internal Error	Cause Value No. 111 ("protocol error, unspecified") (Class default)	
VA_38	480 Temporarily unavailable	Cause Value No. 127 ("interworking unspecified") (Class default)	

TP108002	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Relea	se message (REL)/
SIP selection	NOT PICS 4/10	
criteria:		
ISUP selection		
criteria:		
Test purpose:	<ul> <li>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:         <ul> <li>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;</li> <li>the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA.</li> </ul> </li> </ul>	
SIP Parameter values:	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)	
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)	
values:		
Comments:	SIP SU	IT ISUP
	INVITE →	→ IAM
		<b>←</b> ACM
	SIP_FAILURE_VA ←	<b>←</b> REL
	ACK →	→ RLC

Table 6

	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 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release	
SIP selection criteria:	NOT PICS 4/10	<b>3</b> - ( )
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.	
SIP Parameter values:	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)	
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)	
Comments:	SIP SUT INVITE → 180 Ringing ← SIP_FAILURE_VA ← ACK →	ISUP

TP108004	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Rele	lease message (REL)/
SIP selection	NOT PICS 4/10	
criteria:		
ISUP selection		
criteria:		
Test purpose:	message, having received a ACM message indication", having received a CPG message event indicator is set to "Alerting", a 18 REL:  • the SUT immediately requests When the ISUP circuit is availated the ISUP side;	receipt of a INVITE message, sending out an IAM sage where the CPS indicator is set to "no essage where the event information parameter 80 Ringing message is sent, on receipt of an ISUP the disconnection of the internal bearer path. The able for re-selection, an ISUP RLC is returned to priate SIP status defined as SIP_FAILURE_VA.
SIP Parameter values:	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)	
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)	
values:		
Comments:	SIP	SUT ISUP
	INVITE →	→ IAM
		<b>←</b> ACM
	180 Ringing ←	<b>←</b> CPG
	SIP_FAILURE_VA ←	<b>←</b> REL
	ACK →	→ RLC

Table 7

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

TP108005	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release	message (REL)/
SIP selection	NOT PICS 4/10	
criteria:		
ISUP selection		
criteria:		
Test purpose:	Ensure that the SUT in the Idle state on recei	pt of a INVITE message, sending out an IAM
	message, having received a ACM message, h	naving received a ANM', a 200 OK message
	is sent, on receipt of an ISUP REL, where the	cause value defined as CV_ISUP:
	<ul> <li>the SUT immediately requests the di</li> </ul>	isconnection of the internal bearer path.
		or re-selection, an ISUP RLC is returned to
	the ISUP side;	
	<ul> <li>the SUT shall send a BYE message</li> </ul>	
SIP Parameter		
values:		
ISUP Parameter		
values:		
Comments:	SIP SUT	ISUP
	INVITE ->	→ IAM
	180 Ringing ←	<b>←</b> ACM
	200 OK ĬNVITE ←	<b>←</b> ANM
	BYE <b>←</b>	<b>←</b> REL
	200 OK BYE →	→ RLC

TP108006	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release	message (REL)/
SIP selection	NOT PICS 4/10	
criteria:		
ISUP selection		
criteria:		
Test purpose:		a 200 OK message is sent, on receipt of an CV_ISUP: isconnection of the internal bearer path. or re-selection, an ISUP RLC is returned to
SIP Parameter values:		
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)	
values:	,,	
Comments:	SIP SUT	ISUP
	INVITE ->	→ IAM
	200 OK INVITE ←	<b>←</b> CON
	BYE <b>←</b>	<b>←</b> REL
	200 OK BYE →	→ RLC

Table 8

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

TP108007	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.11.2
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release r	message (REL)/
SIP selection	PICS 4/10	
criteria:		
ISUP selection		
criteria:		
Test purpose:	<ul><li>When the ISUP circuit is available fo the ISUP side;</li><li>the SUT shall send the appropriate S</li></ul>	
SIP Parameter values:	cause value: CV_SIP (PIXIT)	
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)	
values:		
Comments:	SIP SUT	ISUP
	INVITE →	→ IAM
	SIP_FAILURE_VA	<b>←</b> REL
	ACK →	→ RLC

Table 9

	Values for test purposes TP108007		
	←SIP Message	← REL	
SIP_FAILURE_VA CV_SIP		Cause Indicators parameter CV_ISUP,	
	CV_5II	CV_1301 ,	
VA_1	404 Not Found Cause Value No. 1	Cause Value No. 1 ("unallocated (unassigned) number")	
VA_2	500 Server Internal Error Cause Value No. 2	Cause Value No. 2 ("no route to network")	
VA_3	500 Server Internal Error Cause Value No. 3	Cause Value No. 3 ("no route to destination")	
VA_4	500 Server Internal Error Cause Value No. 4	Cause Value No. 4 ("Send special information tone")	
VA_5	404 Not Found Cause Value No. 5	Cause Value No. 5 ("Misdialled trunk prefix")	
VA_6	500 Server Internal Error Cause Value No. 8	Cause Value No. 8 ("Preemption")	
VA_7	500 Server Internal Error Cause Value No. 9	Cause Value No. 9 ("Preemption-circuit reserved for reuse")	
VA_8	486 Busy Here Cause Value No. 17	Cause Value No. 17 ("user busy")	
VA_9	480 Temporarily unavailable Cause Value No. 18	Cause Value No. 18 ("no user responding")	
VA_10	480 Temporarily unavailable Cause Value No. 19	Cause Value No. 19 ("no answer from the user")	
VA_11	480 Temporarily unavailable Cause Value No. 20	Cause Value No. 20 ("subscriber absent")	
VA_12	480 Temporarily unavailable Cause Value No. 21	Cause Value No. 21 ("all rejected")	
VA_13	410 Gone Cause Value No. 22	Cause Value No. 22 ("number changed")	
VA_14	480 Temporarily unavailable Cause Value No. 25	Cause Value No. 25 ("Exchange routing error")	
VA_15	502 Bad Gateway Cause Value No. 27	Cause Value No. 27 ("destination out of order")	
VA_16	484 Address Incomplete Cause Value No. 28	Cause Value No. 28 ("invalid number format (address incomplete"))	
VA_17	500 Server Internal Error	Cause Value No. 29 ("facility rejected")	
VA_18	480 Temporarily unavailable Cause Value No. 31	Cause Value No. 31 ("normal unspecified") (Class default)	
VA_19	486 Busy here if Diagnostics indicator includes the (CCBS indicator = CCBS possible) else 480 Temporarily unavailable Cause Value No. 34	Cause Value in the Class 010 (resource unavailable,	
VA_20	500 Server Internal Error Cause Value No. 47	Cause Value in the Class 010 (resource unavailable, Cause Value No. 38-47) (47 is class default)	
VA_21	500 Server Internal Error Cause Value No. 50	Cause Value No. 50 ("requested facility not subscribed")	
VA_22	500 Server Internal Error Cause Value No. 55	Cause Value No. 55 ("incoming calls barred within CUG")	
VA_23	500 Server Internal Error Cause Value No. 57	Cause Value No. 57 ("bearer capability not authorized")	
VA_24	500 Server Internal Error Cause Value No. 58	Cause Value No. 58 ("bearer capability not presently")	
VA_25	500 Server Internal Error Cause Value No. 63	Cause Value No. 63 ("service option not available, unspecified") (Class default)	
VA_26	500 Server Internal Error Cause Value No. 65 - 79	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	Cause Value No. 87 ("user not member of CUG")	

	Values for test purposes TP108007			
	←SIP Message SIP_FAILURE_VA CV_SIP	← REL Cause Indicators parameter CV_ISUP,		
VA_28	500 Server Internal Error Cause Value No. 88	Cause Value No. 88 ("incompatible destination")		
VA_29	500 Server Internal Error Cause Value No. 90	Cause Value No. 90 ("Non-existent CUG")		
VA_30	404 Not Found Cause Value No. 91	Cause Value No. 91 ("invalid transit network selection")		
VA_31	500 Server Internal Error Cause Value No. 95	Cause Value No. 95 ("invalid message") (Class default)		
VA_32	500 Server Internal Error Cause Value No. 97	Cause Value No. 97 ("Message type non-existent or not implemented")		
VA_33	500 Server Internal Error Cause Value No. 99	Cause Value No. 99 ("information element/parameter non- existent or not implemented")		
VA_34	480 Temporarily unavailable Cause Value No. 102	Cause Value No. 102 ("recovery on timer expiry")		
VA_35	500 Server Internal Error Cause Value No. 103	Cause Value No. 103 ("Parameter non-existent or not implemented, pass on")		
VA_36	500 Server Internal Error Cause Value No. 110	Cause Value No. 110 ("Message with unrecognized Parameter, discarded")		
VA_37	500 Server Internal Error Cause Value No. 111	Cause Value No. 111 ("protocol error, unspecified") (Class default)		
VA_38	480 Temporarily unavailable Cause Value No. 127	Cause Value No. 127 ("interworking unspecified") (Class default)		

TP108008	SIP reference: RFC 3261 [6]	ISUP reference:		
		ITU-T Rec Q.1912.5 [1], clause 6.11.2		
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/			
SIP selection	PICS 4/10			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "no indication", on receipt of an ISUP REL, 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 the appropriate SIP status defined as SIP_FAILURE_VA;  • the ISUP Cause Value field in the ISUP REL message is mapped to the Reason header field.			
SIP Parameter values:	cause value: CV_SIP (PIXIT)			
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)			
Comments:	SIP SUT	ISUP		
	INVITE →	→ IAM		
		<b>←</b> ACM		
	SIP_FAILURE_VA ←	<b>←</b> REL		
	ACK →	→ RLC		

Table 10

	Values for test purpose TP108008			
	←SIP Message SIP_FAILURE_VA CV_SIP	← 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	Cause Value No. 18 ("No user responding")		
VA_3	480 Temporarily unavailable Cause Value No. 21	Cause Value No. 21 ("all rejected")		
VA_4	410 Gone Cause Value No. 22	Cause Value No. 22 ("number changed")		
VA_5	502 Bad Gateway Cause Value No. 27	Cause Value No. 27 ("destination out of order")		
VA_6	484 Address Incomplete Cause Value No. 28	Cause Value No. 28 ("invalid number format (address incomplete")		
VA_7	480 Temporarily unavailable Cause Value No. 31	Cause Value No. 31 ("normal unspecified") (Class default)		
VA_8	500 Server Internal Error Cause Value No. 47	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	Cause Value No. 63 ("service option not available, unspecified") (Class default)		
VA_10	500 Server Internal Error Cause Value No. 88	Cause Value No. 88 ("incompatible destination")		
VA_11	500 Server Internal Error Cause Value No. 111	Cause Value No. 111 ("protocol error, unspecified") (Class default)		

TP108009	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.2		
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/			
SIP selection criteria:	PICS 4/10			
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, 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 the appropriate SIP status defined as SIP_FAILURE_VA;  • the ISUP Cause Value field in the ISUP REL message is mapped to the Reason header field.			
SIP Parameter values:	Cause value: CV_SIP (PIXIT)			
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)			
Comments:	SIP SUT INVITE → 180 Ringing ← SIP_FAILURE_VA ← ACK →	ISUP  → IAM  ← ACM  ← REL  → RLC		

TP108010	SIP reference: I	RFC 3261 [6]	ISUP reference:	
			ITU-T Rec Q.1912.5 [1], clause 6.11.2	
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/			
SIP selection	PICS 4/10			
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 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 the appropriate SIP status defined as SIP_FAILURE_VA;  • the ISUP Cause Value field in the ISUP REL message is mapped to the Reason header field.			
SIP Parameter values:	Cause value: CV_SIP (PIXIT)			
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)			
values:				
Comments:	SIP	SUT	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 D: :	-	← ACM	
	180 Ringing ← CPG			
	SIP_FAILURE_VA ← REL			
	ACK	<b>→</b>	→ RLC	

Table 11

	Values for test purposes TP108009 and TP108010			
←SIP Message SIP_FAILURE_VA CV_SIP		← 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	Cause Value No. 18 ("No user responding")		
VA_3	480 Temporarily unavailable Cause Value No. 21	Cause Value No. 21 ("all rejected")		
VA_4	410 Gone Cause Value No. 22	Cause Value No. 22 ("number changed")		
VA_5	502 Bad Gateway Cause Value No. 27	Cause Value No. 27 ("destination out of order")		
VA_6	484 Address Incomplete Cause Value No. 28	Cause Value No. 28 ("invalid number format (address incomplete")		
VA_7	480 Temporarily unavailable Cause Value No. 31	Cause Value No. 31 ("normal unspecified") (Class default)		
VA_8	500 Server Internal Error Cause Value No. 47	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	Cause Value No. 63 ("service option not available, unspecified") (Class default)		
VA_10	500 Server Internal Error Cause Value No. 88	Cause Value No. 88 ("incompatible destination")		
VA_11	500 Server Internal Error Cause Value No. 111	Cause Value No. 111 ("protocol error, unspecified") (Class default)		

TP108011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.2		
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/			
SIP selection	PICS 4/10	necouge (REE)		
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 an 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 BYE message;  • the ISUP Cause Value field in the ISUP REL message is mapped to the Reason header field in the BYE.			
SIP Parameter values:	Cause value: CV_SIP (PIXIT)			
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)			
Comments:	SIP SUT	ISUP		
	INVITE ->	→ IAM		
	180 Ringing ←	<b>←</b> ACM		
	200 OK INVITE ←	<b>←</b> ANM		
	BYE •	€ REL		
	200 OK BYE →	→ RLC		

TP108012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.2		
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/			
SIP selection	PICS 4/10			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out a IAM message, having received a CON message, a 200 OK message is sent, on receipt of an 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 BYE message;  • the ISUP Cause Value field in the ISUP REL message is mapped to the Reason header field.			
SIP Parameter	Cause value: CV_SIP (PIXIT)			
values:				
ISUP Parameter	REL; cause value: CV_ISUP (PIXIT)			
values:	0.17	10115		
Comments:	SIP SUT	ISUP		
	INVITE -	→ IAM ← CON		
	200 OK INVITE ← BYE ←	← CON ← REL		
	200 OK BYE →	→ REL		
	200 ON DIL 7	I INLU		

Table 12

	Values for test purposes TP108011 and TP108012				
	←SIP Message	← REL			
	SIP_FAILURE_VA	Cause Indicators parameter			
	CV_SIP	CV_ISUP,			
VA_1	BYE	Cause Value No. 16			
	Cause Value No. 16				
VA_2	BYE	Cause Value No. 31 ("normal unspecified")			
	Cause Value No. 31	(Class default)			
VA_3	BYE	Cause Value No. 38 ("Network out of order")			
	Cause Value No. 38	, , , , , , , , , , , , , , , , , , ,			
VA_4	BYE	Cause Value No. 41 ("Temporary failure ")			
	Cause Value No. 41				
VA_5	BYE	Cause Value No. 111 ("protocol error, unspecified")			
	Cause Value No. 111	(Class default)			

TP108013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.2		
TSS reference:	SIP-ISUP /Basic call/ Receipt of the Release			
SIP selection criteria:	NOT PICS 4/10 AND PICS 4/21	<u> </u>		
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 SUT	ISUP		
	INVITE →	→ IAM		
		<b>←</b> REL		
	→ RLC			
		→ IAM		

#### 6.2.1.9 Autonomous release at I-IWU

TP108101	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.11.3	
TSS reference:	SIP-ISUP/Basic call/ Autonomous release at I	-IWU	
SIP selection			
criteria:	2100 1/0		
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 SI INVITE →  480 Temporarily unavailable ← ACK →	JT ISUP  → IAM  ← RSC → RLC	

TP108102	SIP reference: R	RFC 3261 [6]		JP reference: 1912.5 [1], clause 6.11.3
TSS reference:	SIP-ISUP/Basic call/ Aut	onomous release at I-		
SIP selection	NOT PICS 4/10			
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 of the message compatibility information, the SUT:  • shall send a 500 Server Internal Error response on the SIP side.			
SIP Parameter				
values:				
ISUP Parameter values:	Unknown message: Message compatibility "Release call"			
Comments:	SIP SUT ISUP			
	INVITE → IAM			
	180 Ringing ← ← ACM			
			<del>(</del>	???
	500 Server internal error	<b>←</b>	<b>→</b>	REL
	ACK → RLC			

TP108103	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.3		
TSS reference:	SIP-ISUP/Basic call/ Autonomous release at I-IWU			
SIP selection	PICS 4/10			
criteria:				
ISUP selection				
criteria:				
Test purpose:	-	s to be released based on the coding of the hall:  conse on the SIP side;  e (ITU-T Rec Q.850 [5]) Cause Value of the II be contained in the SIP Message (BYE or		
SIP Parameter values:				
ISUP Parameter values:	Unknown message: Message compatibility "R	elease call"		
Comments:	SIP SUT	ISUP		
	INVITE →	→ IAM		
	180 Ringing ←	← ACM		
	500 Coming internal owner #	<b>←</b> ???		
	500 Server internal error	→ REL		
	ACK →	<b>←</b> RLC		

TP108104	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 6.11.3
TSS reference:	SIP-ISUP/Basic call/ Autonomous release at I	-IWU
SIP selection		
criteria:		
ISUP selection	PICS 3/4	
criteria:		
Test purpose:	Ensure that the SUT on receipt of insufficient	digits received in an INVITE messages:
	sends an 484 Address Incomplete m	essage.
SIP Parameter		
values:		
ISUP Parameter		
values:		
Comments:	SIP SUT	ISUP
	INVITE ->	
	484 Address incomplete ←	
	ACK →	

TP108105	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec 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 receipt of subsequent	t INVITE message:
		e message to consider any offer-answer new INVITE shall initiate a new offer-answer
SIP Parameter values:		
ISUP Parameter		
values:		
Comments:	the negotiation and confirmation of precondition address information. On sending of a 484 Additransaction the I-IWU considers any offer-ansiterminated. The new INVITE initiates a new of	wer exchange initiated by the INVITE to be ffer-answer exchange. However, if resources reused within the new offer-answer exchange,
	SIP SUT INVITE  INVITE  484 Address incomplete  ACK	ISUP

TP108106	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec 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:	<ul> <li>Ensure that the SUT in congestion on receipt of INVITE message:</li> <li>sends an 480 Temporarily Unavailable message.</li> </ul>		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	SIP	SUT	
	INVITE →		
	480 Temporarily unavailable ←		
Ì	ACK →		

TP108107	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec 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 release procedure of the BICC	C/ISUP are a result of a release after answer:
	<ul><li>sends a BYE message to the UAC;</li><li>sends a REL to the BICC/ISUP side.</li></ul>	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT	ISUP
	INVITE →	→ IAM
	180 Ringing ←	<b>←</b> ACM
	200 OK INVITE	<b>←</b> ANM
	BYE	→ REL
	200 OK BYE →	<b>←</b> RLC

TP108108	SIP reference: RFC 3261 [6]		ference: 5 [1], clause 6.11.3
TSS reference:	SIP-ISUP/Basic call/ Autonomous release at I	-IWU	
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the call is released due to the BICC/ISUP compatibility procedure for unknown parameters:  • sends 500 Server Internal Error.		
SIP Parameter values:			
ISUP Parameter values:	Unknown parameter in ACM: Parameter com	patibility "Release call"	
Comments:	SIP SUT		ISUP
	INVITE ->	<b>→</b>	IAM
	500 Conver internal error	<del>(</del>	ACM(???) REL
	500 Server internal error ← ACK →	<b>→</b>	RLC

TP108109	SIP reference: R	FC 3261 [6]	1	JP reference: 1912.5 [1], clause 6.11.3
TSS reference:	SIP-ISUP/Basic call/ Auto	nomous release at I		1012.0 [1], olddod o.111.0
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	Ensure that the call is rele	eased due to expiry	of T7 within the BIC	CC/ISUP procedures:
	• sends 484 Addr	ess Incomplete.		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
		T7 ex	piry	
	484 Address incomplete	<b>←</b>	<b>→</b>	REL
	ACK	<b>→</b>	+	RLC

TP108110	SIP reference: RFC 3	3261 [6]		SUP reference: Q.1912.5 [1], clause 6.11.3
TSS reference:	SIP-ISUP/Basic call/ Autonom	nous release at	t I-IWU	
SIP selection criteria:				
ISUP selection criteria:	PICS 4/16			
Test purpose:	sends 480 Temporar			C/ISUP procedures:
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP INVITE 180 Ringing	<b>→</b>	SUT	ISUP IAM ACM
	480 Temporarily unavailable ACK	<b>←</b> →	T9 expiry → ←	REL RLC

TP108111	SIP reference: RFC 3	261 [6]	ISUP ref	erence:
			ITU-T Rec Q.1912.5	[1], clause 6.11.3
TSS reference:	SIP-ISUP/Basic call/ Autonom	ous release at I-	·IWU	
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the call is release	d due release be	efore answer:	
	sends 480 Temporarily Unavailable.			
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	SIP	S	UT	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<del>(</del>	<b>←</b>	ACM
	Autonomous release from I-IWU			
	480 Temporarily unavailable	<b>←</b>	<b>→</b>	REL
	ACK	<b>→</b>	+	RLC

#### 6.2.1.10 Receipt of the Release message BYE / CANCEL

TP109001	SIP referenc	e: RFC 3261 [6]		JP reference: 1912.5 [1], clause 6.11.1
TSS reference:	SIP-ISUP/Basic call/	Receipt of the BYE		
SIP selection criteria:	NOT PICS 4/11			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT value # 16 to the ISU	•	E, the SUT shall send	an ISUP REL with the cause
SIP Parameter values:				
ISUP Parameter values:	REL: Cause value #16, Location "Network beyond an interworking point"			
Comments:	SIP	S	UT	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
	BYE 200 OK BYE	<b>→</b> ←	<b>→</b>	REL RLC

TP109002	SIP reference: RFC 3261 [6]		ISUP reference:
		ITU-T R	ec Q.1912.5 [1], clause 6.11.1
TSS reference:	SIP-ISUP/Basic call/ Receipt of the CA	NCEL message	
SIP selection criteria:	NOT PICS 4/11		
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT on receipt of SIP	CANCEL, the I-IWU	I shall send an ISUP REL with the
	cause value # 31 to the ISUP side.		
SIP Parameter			
values:			
ISUP Parameter	REL: Cause value #31, Location "Network beyond an interworking point"		
values:			
Comments:	SIP	SUT	ISUP
	INVITE →	<b>→</b>	IAM
	180 Ringing ←	<b>←</b>	ACM
	CANCEL →	<b>→</b>	REL
	200 OK CANCEL ←	+	RLC

TP109003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.11.1	
TSS reference:	SIP-ISUP/Basic call/ Receipt of the BYE mes	sage	
SIP selection criteria:	PICS 4/11		
ISUP selection criteria:			
Test purpose:	Ensure that the SUT on receipt of SIP BYE, the SUT shall send an ISUP REL to the ISUP side.  Ensure that the Reason header field with ITU-T Rec Q.850 [5] Cause Value <b>is included</b> in the BYE message is mapped to the ISUP Cause Value field in the ISUP REL message.		
SIP Parameter values:	Protocol-cause: CV_Reason Header (PIXIT)		
ISUP Parameter values:	REL: cause value: CV_ISUP (PIXIT)		
Comments:	SIP SUT  INVITE →  180 Ringing ←  200 OK INVITE ←  BYE →  200 OK BYE ←	ISUP	

TP109004	SIP reference: RFC 3261 [6]	ISUP reference:		
		ITU-T Rec Q.1912.5 [1], clause 6.11.1		
TSS reference:	SIP-ISUP/Basic call/ Receipt of the CANCEL message			
SIP selection	PICS 4/11			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT on receipt of SIP CANCEL, the I-IWU shall send an ISUP REL to the ISUP side.			
	Ensure that the Reason header field with ITU-T Rec Q.850 [5] Cause Value <b>is included</b> in the CANCEL message is mapped to the ISUP Cause Value field in the ISUP REL message.			
SIP Parameter values:				
ISUP Parameter	REL: cause value: CV_ISUP (PIXIT)			
values:	location: LOC_ISUP (PIXIT)			
Comments:	SIP SUT	ISUP		
	INVITE →	→ IAM		
	180 Ringing ←	<b>←</b> ACM		
	CANCEL →	→ REL		
	200 OK CANCEL ←	<b>←</b> RLC		

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

TP110001	SIP reference: RFC 3261 [6]	ISUP reference:	
	ITU-T Rec 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 a RSC me	vard ISUP/BICC message relating to the call has essage sends:  addy received an ACK for the 200 OK INVITE	
SIP Parameter values:			
ISUP Parameter			
values:			
Comments:	SIP       SUT         INVITE       →         180 Ringing       ←         200 OK INVITE       ←         ACK       →	ISUP  → IAM  ← ACM ← ANM	
	BYE	← RSC → RLC	

TP110002	SIP reference: RFC 3261 [6]	ISUP reference:		
	ITU-T Rec Q.1912.5 [1], clauses 6.11.4 and 5			
TSS reference:	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message			
	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented			
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT, when at least one backy	ard ISUP/BICC message relating to the call has		
	already been received on receipt of a GRS me	essage sends:		
	_	dy received an ACK for the 200 OK INVITE		
	message which had it sent.			
CID Dovernator				
SIP Parameter				
values:				
ISUP Parameter				
values:	SIP SUT	ICLID		
Comments:	1			
	INVITE -	→ IAM ← ACM		
	180 Ringing ← 200 OK INVITE ←			
	200 OK INVITE ← ACK →	<b>←</b> ANM		
	ACK 7			
	BYE ←	<b>←</b> GRS		
	200 OK BYE →	→ GRA		

TP110003	SIP reference: RFC 3261 [6]		IP reference:	
TSS reference:	ITU-T Rec Q.1912.5 [1], clause 6.11.4  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:	(OTC) of circuit group blocking message (OCD) with the indication hardware failure oriented			
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 Message Typ	e Indicator "hardware fail	ure oriented"	
Comments:	SIP INVITE → 180 Ringing ←  200 OK INVITE ← ACK →  BYE ← 200 OK BYE ←	SUT	ISUP IAM ACM ANM  CGB CGBA	

TP110004	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 6.11.4 and 5	
TSS reference:	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message		
	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT, when at 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 BYE.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	
		<b>←</b> RSC	
	ACK →	→ RLC	
	BYE		
	200 OK BYE →		

TP110005	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 6.11.4 and 5	
TSS reference:	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message		
	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT, when at least one backward ISUP/BICC message relating to the call has already been received on receipt of a GRS message sends 200 OK INVITE if the SUT has not yet received an ACK for the 200 OK INVITE.  The SUT shall wait until it receives the ACK for the 200 OK INVITE before sending the BYE.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	SIP SUT	T ISUP	
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	
		<b>←</b> GRS	
	ACK →	→ GRA	
	BYE		
	200 OK BYE →		

TP110006	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 6.11.4	
TSS reference:	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message		
	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection			
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT, when at least one backwalready been received on receipt of a CGB me	essage, with the Circuit Group Supervision	
	Message Type Indicator coded as "hardware f		
	200 OK INVITE if the SUT has not yet receive	ed an ACK for the 200 OK INVITE.	
	The SLIT shall wait until it receives the state of t	ne ACK for the 200 OK INVITE before sending	
	the BYE.	to Norther the 200 orthwine below containing	
SIP Parameter			
values:			
ISUP Parameter	Circuit Group Supervision Message Type India	cator "hardware failure oriented"	
values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	
		<b>←</b> CGB	
	ACK →	→ GGBA	
	BYE <b>←</b>	-	
	200 OK BYE →		

TP110007	SIP reference: RF	C 3261 [6]	ISU	P reference:
	ITU-T Rec 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 blo	cking message (CG	B) with the indication	n hardware failure oriented
SIP selection				
criteria:				
ISUP selection criteria:				
Test purpose:	Ensure that the SUT, when at least one backward ISUP/BICC message relating to the call has already been received on receipt of a RSC message sends:  • a 500 Server Internal Error on the SIP side.			
	u 000 <b>0</b> 01101 III.	a. 2		
SIP Parameter				
values:				
ISUP				
Parameter				
values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	500 Server Internal Error ACK	<b>←</b> →	<b>←</b> →	RSC RLC

TP110008	CID reference: DE	C 2264 [6]	ICIII	P reference:
17110008	SIP reference: RF	·C 3261 [6]		
	ITU-T Rec 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			n hardware failure oriented
SIP selection	<u> </u>	<u> </u>	•	
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT, whe	n at least one backy	ard ISUP/BICC mes	ssage relating to the call has
	already been received on			3
	a 500 Sonyor Into	ernal Error on the SI	D cido	
	a 500 Server line	emai Emoi on the Si	r side.	
SIP Parameter				
values:				
ISUP				
Parameter				
values:				
Comments:	SIP	SUT	•	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>É</b>	ACM
			-	
	500 Server Internal Error	<b>←</b>	<b>←</b>	GRS
	ACK	÷	À	GRA
	7.01			Oivi

TP110009	SIP reference: RF	C 3261 [6]		P reference:
			ITU-T Rec Q.1	912.5 [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 blo	cking message (CG	B) with the indicatio	n hardware failure oriented
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT, when	n at least one backw	ard ISUP message	relating to the call has
	already been received on			
	Message Type Indicator co	oded as "hardware f	ailure oriented", ser	nds:
	a 500 Server Integration	ernal Error on the SII	P side.	
SIP Parameter				
values:				
ISUP				
Parameter				
values:				
Comments:	SIP SUT ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<del>(</del>	ACM
		_	_	0.05
	500 Server Internal Error	<del>(</del>	<del>(</del>	CGB
	ACK	<b>→</b>	<b>→</b>	CGBA

TP110010	SIP reference: RFC 3261		ISUP reference: 0.1912.5 [1], clauses 6.11.4 and 5
TSS reference:	SIP-ISUP/Basic call/ Receipt of Re(GRS) or Circuit group blocking me		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving call association on receipt of a GR value is bigger than "1":  the SUT shall send a BYI	S message where the R	
SIP Parameter values:			
ISUP Parameter values:			
Comments:	SIP INVITE 1  → 180 Ringing  ← 200 OK INVITE  ← ACK  →  INVITE 2  → 180 Ringing  ← 200 OK INVITE  ← ACK  →	SUT  + + +	ISUP IAM ACM ANM IAM ACM ANM
	BYE 1 ← 200 OK BYE → BYE 2 ← 200 OK BYE →	<b>←</b> →	GRS GRA

TP110011	SIP reference: RFC 3261	[6]		P reference:
T00 (				.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			
	(GRS) or Circuit group blocking n	nessage (CG	B) with the indicatio	n hardware failure oriented
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT after receiving call association on receipt of a COType Indicator coded as "hardwa value is bigger than "1":  the SUT shall send a BY	GB message, re failure orie	with the Circuit Gro nted" <b>where the Ra</b>	oup Supervision Message inge and Status Parameter
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	SIP	SUT	•	ISUP
	INVITE 1 →		<b>→</b>	IAM
	180 Ringing ←		<del>(</del>	ACM
	200 OK ÎNVÎTE ←		<b>←</b>	ANM
	ACK →			
	INVITE 2 →		<b>→</b>	IAM
	180 Ringing ←		<b>←</b>	ACM
	200 OK INVITE		÷	ANM
	ACK →		•	,
	BYE 1 ←		<b>←</b>	CGB
	200 OK BYE →		÷	CGBA
	BYE 2		•	002,1
	200 OK BYE →			
	ZOO ON DIE			

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

TP111001	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec 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 <b>suspend indicator</b> set to		
	"network initiated":		
	does not send any message.		
SIP Parameter			
values:			
ISUP Parameter	SUS; Suspend indicator: network initiated		
values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	
		<b>←</b> SUS	

TP111002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.9
TSS reference:	SIP-ISUP/Basic call/ receipt of a SUSPEND message with the <b>suspend indicator</b> set to "network initiated"	
SIP selection criteria:		
ISUP selection criteria:	PICS 4/14	
Test purpose:	Ensure that the SUT, on receipt of a SUSPEN "network initiated":  T6 is started.  After T6 is expired, the call is release	D message with the <b>suspend indicator</b> set to
SIP Parameter values:		
ISUP Parameter values:	SUS; Suspend indicator: network initiated; R	EL: Cause value 102
Comments:	SIP SUT INVITE → 180 Ringing ← 200 OK INVITE ←	ISUP
	T6 is	started
	T6 is BYE → 200 OK BYE ←	expired  → REL  ← RLC

## 6.2.1.13 Receipt of the Resume message (RES) network initiated

TP112001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec 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":  does not send any message.		
SIP Parameter			
values:	DE0.0 11.00		
ISUP Parameter values:	RES; Suspend indicator: network initiated		
Comments:	SIP S	JT ISUP	
	INVITE →	→ IAM	
	180 Ringing ←	<b>←</b> ACM	
	200 OK INVITE ←	<b>←</b> ANM	
		<b>←</b> SUS	
		<b>←</b> RES	

### 6.2.2 Interworking from ISUP to SIP

#### 6.2.2.1 Sending of the INVITE message

TP301001	SIP reference: R	FC 3261 [6]		P reference: 112.5 [1], clause 7.1, 1 a)
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message			
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number and the sending complete indication:  • sends the INVITE message.			
SIP Parameter values:				
ISUP Parameter values:	IAM; Called party number: with sending complete indication			
Comments:	ISUP/BICC IAM	SUT →	<b>→</b>	SIP INVITE

TP301002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, 1 b)	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message		
SIP selection			
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the <b>maximum number of digits</b> used in the national numbering plan:  • sends the INVITE message.		
SIP Parameter			
values:			
ISUP Parameter	IAM; Called party number: complete number		
values:			
Comments:	ISUP/BICC SU	Γ SIP	
	IAM →	→ INVITE	

TP301003	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [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	IAM; Called party number: complete number		
values:			
Comments:	ISUP/BICC SUT	SIP	
	IAM →	→ INVITE	

TP301004	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1, 1 d)
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE m	essage
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>oiw1</sub> after the receipt of the latest address message:  • sends the INVITE message.	
SIP Parameter		
values:		
ISUP Parameter values:		
Comments:	ISUP/BICC SUT	SIP
	IAM →	
	T <sub>oiw</sub>	<sub>1</sub> expiry
		→ INVITE

TP301005	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, A)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message		
SIP selection criteria:	NOT PICS 4/15		
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 is set to indicate "continuity check not required":  • sends a INVITE message.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	

TP301006	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, A)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message		
SIP selection criteria:	NOT PICS 4/15		
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	
	COT →	→ INVITE	

TP301007	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.1, A)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection criteria:	NOT PICS 4/15		
ISUP selection criteria:	PICS 1/5		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message with the complete called party number containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check 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	
	COT →	→ INVITE	

TP301008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, A)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	<u> </u>
SIP selection criteria:	NOT PICS 4/15	
ISUP selection 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 IAM → COT	SIP

TP301009	SIP referer	nce: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, A)
TSS reference:	ISUP-SIP/Basic ca	II/Sending of the INVITE	message
SIP selection	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 ISUP timer T8 expires. The SUT:  • sends a REL message.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP		UT SIP
	IAM	<b>→</b>	
			B expiry
	REL	<b>←</b>	
	RLC	<b>→</b>	

TP301012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, B)		
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message			
SIP selection criteria:	PICS 4/5 AND PICS 4/15			
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	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 with precondition using the SDP offer in the INVITE.			
SIP Parameter				
values:				
ISUP Parameter values:				
Comments:	ISUP	SUT SIP		
	IAM →	→ INVITE		

TP301013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, B)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me		
SIP selection	PICS 4/5 AND PICS 4/15	lessage	
criteria:	1100 4/07/1100 4/10		
ISUP selection	PICS 1/5 AND PICS 4/2		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message where the Continuity Check indicator in the Nature of Connection Indicators parameter in the IAM is set to indicate "continuity check required on this circuit":  • sends an INVITE message with precondition using the SDP offer in the INVITE. The SDP offer or answer carrying the confirmation of a precondition being met is sent when the Continuity message with the Continuity Indicators parameter set to "continuity check successful" was received and the requested preconditions are met in the SIP network.		
SIP Parameter values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT SIP		
	IAM →	→ INVITE	
		← 183 Session Progress	
		→ PRACK	
	COT .	€ 200 OK PRACK	
	COT →	→ UPDATE ← 200 OK UPDATE	

TP301014	SIP reference: RFC 3261 [6]	ITULT RA	ISUP reference: ec Q.1912.5 [1], clause 7.1, B)
T00 (			
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection criteria:	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 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 values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT		SIP
	IAM →	<b>→</b>	INVITE
		<b>←</b>	183 Session Progress
		<b>→</b>	PRACK
		<b>←</b>	200 OK PRACK
	COT →	<b>→</b>	UPDATE
	← 200 OK UPDATE		

TP301015	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, B)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message		
SIP selection criteria:	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 performed on previous circuit" and sends an INVITE message with precondition using the SDP offer in the INVITE. The call has been cleared before an early dialogue has been established. Ensure that the SUT:  • sends CANCEL if on the SIP side the internal resource reservation was unsuccessful;  • 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:	ISUP SUT IAM →	SIP → INVITE ← 100 Trying	
	internal resource reserved.  REL ← RLC →	ervation was unsuccessful  CANCEL  COUNTY  COU	

TP301016	SIP reference: RFC 3261 [6]	ISUP refere ITU-T Rec Q.1912.5 [1	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message		
SIP selection	PICS 4/5 AND PICS 4/15		
criteria:			
ISUP selection	PICS 1/5 AND PICS 4/2		
criteria:			
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 performed on previous circuit" and sends an INVITE message with precondition using the SDP offer in the INVITE. The call has been cleared after an early dialogue with the message defined as SIP_MESSAGE_VA has been established. Ensure that the SUT:  • sends CANCEL if on the SIP side the internal resource reservation was unsuccessful;  • 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:	IOLID		OLD.
Comments:	ISUP SUT		SIP INVITE
	I CAIVI		SIP_MESSAGE_VA
	internal resource reservation was unsuccessful		
	REL <b>←</b>	<b>→</b>	CANCEL
	RLC →	<b>←</b>	200 OK CANCEL
		<b>←</b>	487 Request
	terminated	<b>→</b>	ACK

TP301019	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.1, B)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection	PICS 4/5 AND PICS 4/15		
criteria:			
ISUP selection	PICS 1/5 AND PICS 4/2		
criteria:			
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 call has been cleared before an early dialogue has been established. Ensure that the SUT:  Sends CANCEL if on the SIP side the internal resource reservation was unsuccessful.  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:	ISUP SUT		
	IAM →	→ INVITE	
		← 100 Trying	
	internal resource reservation was unsuccessful		
	REL ←	→ CANCEL	
	RLC →	← 200 OK CANCEL	

TP301020	SIP reference: RFC 3261 [6]		eference:
		ITU-T Rec Q.1912	2.5 [1], clause 7.1, B)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message		
SIP selection	PICS 4/5 AND PICS 4/15		
criteria:			
ISUP selection	PICS 1/5 AND PICS 4/2		
criteria:			
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 call has been cleared after an early dialogue with the message defined as SIP_MESSAGE_VA has been established. Ensure that the SUT:  Sends CANCEL if on the SIP side the internal resource reservation was unsuccessful.  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:	ISUP SUT	_	SIP
	IAM →	<b>→</b>	INVITE
		~	SIP_MESSAGE_VA
	internal resource reservation was unsuccessful		
	REL ←	<b>→</b>	CANCEL
	RLC →	<b>←</b>	200 OK CANCEL
		<b>←</b> →	487 Request terminated ACK

Table 13

Values for test purpose: TP301016, TP301020, TP3010128, TP3010132 and TP3010148			
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	181 Call Is Being Forwarded		
VA_3	182 Queued		
VA 4	183 Session Progress without SDP		

TP301027	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, B)
<b>700</b> /		= =: · · · ·
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage
SIP selection	PICS 4/5 AND PICS 4/15	
criteria:		
ISUP selection	PICS 1/5 AND PICS 4/2	
criteria:		
Test purpose:		vith the Continuity Indicators parameter set to
SIP Parameter values:		
<b>ISUP Parameter</b>		
values:		
Comments:	ISUP SUT	SIP
	IAM →	→ INVITE
		← 100 Trying
	COT →	
		→ CANCEL
		← 200 OK CANCEL
		★ 487 Request terminated
		→ ACK

TP301028	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, B)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message		
SIP selection	PICS 4/5 AND PICS 4/15	essage	
criteria:	FICS 4/3 AND FICS 4/13		
ISUP selection	PICS 1/5 AND PICS 4/2		
criteria:			
Test purpose:		with the Continuity Indicators parameter set to cleared after an early dialogue with the	
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		★ SIP_MESSAGE_VA	
	COT →		
		→ CANCEL	
		€ 200 OK CANCEL	
		487 Request terminated	
		→ ACK	

TP301031	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, B)	
T00 (			
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection criteria:	PICS 4/5 AND PICS 4/15		
ISUP selection	PICS 1/5 AND PICS 4/2		
criteria:			
Test purpose:	the Nature of Connection Indicators parameter this circuit" and sends an INVITE message v	ge containing the Continuity Check indicator in r which is set to "continuity check required on with precondition using the SDP offer in the has been cleared before an early dialogue has	
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 100 Trying	
	T8 ex	pires	
	REL ←	• CANCEL	
	RLC →	← 200 OK CANCEL	
		<ul><li>← 487 Request terminated</li><li>→ ACK</li></ul>	

TP301032	SIP reference:	DEC 3261 [6]	IGIID	reference:
11 30 1032	Sir reference.	Ki C 3201 [0]		
				12.5 [1], clause 7.1, B)
TSS reference:	ISUP-SIP/Basic call/Se	nding of the INVITE m	essage	
SIP selection	PICS 4/5 AND PICS 4/2	15		
criteria:				
ISUP selection	PICS 1/5 AND PICS 4/2	2		
criteria:				
Test purpose:	The SUT in Idle state, r	eceives an IAM messa	ge containing the Cor	ntinuity Check indicator in
				tinuity check required on
	this circuit" and sends			
				<b>er</b> an early dialogue with
	the message defined as			
	line meddage deimed de	0	nao boon ootabiionoa	. Endare that the Con.
	<ul> <li>sends CANCE</li> </ul>	L on the SIP side.		
	301103 0711102	LE OIT THE OIT SIGE.		
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	ISUP	SUT	-	SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
		-	<del>-</del>	SIP MESSAGE VA
		T8 e	expires	011 _1112007 (01_ v/ t
	REL	←	<b>→</b>	CANCEL
	RLC	÷	É	200 OK CANCEL
		•	÷	487 Request terminated
			<b>&gt;</b>	•
			<b>→</b>	ACK

TP301037	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, C)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE r	nessage
SIP selection criteria:	NOT PICS 4/15	-
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":  • 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;  - 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:	BICC SU	T SIP
	COT →	→ INVITE

TP301038	SIP reference: RFC 3261 [6]	ISUP reference:	
11 30 1030	Sir reference. Ki C 3201 [0]		
		ITU-T Rec Q.1912.5 [1], clause 7.1, C)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection	NOT PICS 4/15		
criteria:			
ISUP selection	PICS 1/4		
criteria:			
Test purpose:	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		
	" <i>continuity</i> " 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:	BICC SUT	SIP	
	IAM →	<b>5</b>	
	COT →		
	APM →	→ INVITE	

TP301039	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, C)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE m	nessage
SIP selection criteria:	NOT PICS 4/15	
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":  The sending of the INVITE delays until all the following conditions are satisfied:  Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received;  Bearer Set-up Connect indication - for the backward bearer set-up case was received.	
SIP Parameter		
values:		
ISUP Parameter		
values:		
Comments:	BICC SU	Γ SIP
	IAM → COT →	→ INVITE

TP301040	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, C) 2.4		
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me			
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:	BICC SUT IAM → COT →	SIP → INVITE		

TP301041	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, C)	
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection criteria:	NOT PICS 4/15		
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 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:	BICC SUT IAM →	SIP	
	REL ← RLC →	r	

TP301042	SIP reference: RFC 3261 [6]	ISUP reference:	
17301042	Sir felerence. KFC 3201 [0]	ITU-T Rec Q.1912.5 [1], clause 7.1, D)	
<i>(</i>			
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage	
SIP selection	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 o		
	expected" sends an INVITE message with pre	econdition using the SDP offer in the INVITE.	
	The precondition signalling is concluded upon		
	exchange) confirmation of a precondition bein		
	confirmation of a precondition being met is ser		
	satisfied when:	g	
	sausiicu wiigii.		
	Continuity message, with the Continuity Indicators parameter set to "continuity"		
	shall be received;		
	Silali be received,		
	haanan Cat um indication for the fam.	usual basanan sat um sassa uda ara tha imasarina	
		vard bearer set-up case where the incoming	
	Connect Type is "notification not requ	uired" was received.	
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	BICC SUT	SIP	
	IAM →	→ INVITE	
		← 183 Session Progress	
	СОТ	→ UPDATE	
		← 200 OK UPDATE	

TP301043	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, D) 2.2
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	
SIP selection criteria:	PICS 4/5 AND PICS 4/15	Joseph
ISUP selection criteria:	PICS 1/4 AND PICS 4/2	
Test purpose:	<ul><li>be received;</li><li>APM with Action indicator set to "Cor</li></ul>	econdition using the SDP offer in the INVITE. sending the (within an SDP offer-answer g met. The SDP offer or answer carrying the nt when all of the following conditions are ity Indicators parameter set to "continuity" shall nnected" - for the forward bearer set-up cases lling) where the incoming Connect Type is
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC SUT IAM → COT	SIP → INVITE ← 183 Session Progress → UPDATE ← 200 OK UPDATE

TP301044	SIP reference: RFC 3261 [6]	ISUP reference:							
11 001044	011 10101011001 Nt 0 0201 [0]	ITU-T Rec Q.1912.5 [1], clause 7.1, D) 2.3							
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message								
SIP selection	NOT PICS 4/15								
criteria:									
ISUP selection criteria:	PICS 1/4								
Test purpose:	expected" sends an INVITE message with pre The precondition signalling is concluded upon exchange) confirmation of a precondition being confirmation of a precondition being met is sensatisfied when:	Continuity message, with the Continuity Indicators parameter set to " <i>continuity</i> " shall be received;  Bearer Set-up Connect indication - for the backward bearer set-up case was							
SIP Parameter values:									
ISUP Parameter									
values:									
Comments:	BICC SUT IAM →	SIP → INVITE ← 183 Session Progress → UPDATE ← 200 OK UPDATE							

TP301045	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, D) 2.4					
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection criteria:	PICS 4/5 AND PICS 4/15						
ISUP selection criteria:	PICS 1/4 AND PICS 4/2						
Test purpose:	expected" sends an INVITE message with pre The precondition signalling is concluded upon exchange) confirmation of a precondition being confirmation of a precondition being met is sen satisfied when:	<ul> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received;</li> <li>BNC set-up success indication for cases using bearer control tunnelling was</li> </ul>					
SIP Parameter values:							
ISUP Parameter values:							
Comments:	BICC SUT IAM →	SIP → INVITE ← 183 Session Progress → UPDATE ← 200 OK UPDATE					

TP301046	SIP re	ference: RFC 3261	[6]		SUP reference:	
				ITU-T Rec Q.	.1912.5 [1], clause 7.1, D)	
TSS reference:	ISUP-SIP/Bas	ic call/Sending of the	NVITE me	ssage		
SIP selection criteria:	PICS 4/5 AND	PICS 4/15				
ISUP selection criteria:	PICS 1/4 AND	PICS 4/2				
Test purpose:	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 "COT to be expected", sends an INVITE message with precondition using the SDP offer in the INVITE:  • Ensure that the SUT sends CANCEL if the ISUP timer T8 expires if the call has been cleared before an early dialogue has been established.					
SIP Parameter values:						
ISUP Parameter values:						
Comments:	BICC IAM	<b>→</b>	SUT	<b>→</b>	SIP INVITE 100 Trying	
			T8 ex	pires		
	REL	<b>←</b>		<b>→</b>	CANCEL	
	RLC	<b>→</b>		<del>-</del>	200 OK CANCEL	

TP301048	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, D)						
TCC reference								
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE me	essage						
SIP selection	PICS 4/5 AND PICS 4/15							
criteria:								
ISUP selection	PICS 1/4 AND PICS 4/2							
criteria:								
Test purpose:	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 "COT to be expected", sends an INVITE message with precondition using the SDP offer in the INVITE:  • Ensure that the SUT sends CANCEL if the ISUP timer T8 expires if the call has been cleared after an early dialogue with the message defined as SIP_MESSAGE_VA has been established.							
SIP Parameter								
values:								
<b>ISUP Parameter</b>								
values:								
Comments:	BICC SUT	SIP						
	IAM →	→ INVITE						
		← SIP_MESSAGE_VA						
	T8 expires							
	REL ←	→ CANCEL						
	RLC →	← 200 OK CANCEL						
		← 487 Request terminated						
		→ ACK						

TP301049	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1						
TSS reference:								
	ISUP-SIP/Basic call/Sending of the INVITE me	essage						
SIP selection	PICS 4/5 AND PICS 4/15							
criteria:	DIOC 1/1 AND DIOC 1/2							
ISUP selection	PICS 1/4 AND PICS 4/2							
criteria:								
Test purpose:	<ul> <li>indicator in the Nature of Connection Indicator expected". Ensure that the SUT:</li> <li>Sends CANCEL if on the SIP side the unsuccessful and if the call has been message has been established.</li> </ul>	<ul> <li>Sends CANCEL if on the SIP side the internal resource reservation was unsuccessful and if the call has been cleared before an early dialogue with the message has been established.</li> <li>A REL with Cause Value 47 (resource unavailable, unspecified) shall be sent on the</li> </ul>						
SIP Parameter								
values:								
ISUP Parameter								
values:								
Comments:	BICC SUT	SIP						
	IAM →	→ INVITE						
		← 100 Trying						
		ervation was unsuccessful						
	REL ←	→ CANCEL						
	RLC →	€ 200 OK CANCEL						
		<ul><li>← 487 Request terminated</li><li>→ ACK</li></ul>						

TP301051	SIP reference: RFC 3261 [6]	ISUP reference:					
		ITU-T Rec Q.1912.5 [1], clause 7.1					
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	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 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 after an early dialogue with the message defined as SIP_MESSAGE_VA 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 SUT IAM →	SIP → INVITE ← SIP_MESSAGE_VA					
	internal resource reservation was unsuccessful						
	REL ←	→ CANCEL					
	RLC →	<ul><li>← 200 OK CANCEL</li><li>← 487 Request terminated</li><li>→ ACK</li></ul>					

TP301053	SIP refere	nce: RFC 3261 [6]		eference: 2.5 [1], clause 7.1.1				
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE message							
SIP selection criteria:	Based on table 14							
ISUP selection criteria:								
Test purpose:	Medium Requirer  • sends an	JT in the Idle state on receinent (TMR) parameter set  INVITE message containing and "m=" lines set to a_b_n	to TMR_VALUE:					
SIP Parameter values:	INVITE: a_b_m_LI	NE_VALUE						
ISUP Parameter values:	IAM: TMR: ISUP_	ΓMR						
Comments:	ISUP	SUT		SIP				
	IAM	<b>→</b>	<b>→</b>	INVITE				
	ACM	<b>←</b>	<b>←</b>	180 Ringing				
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE				
		Conversation	Conversation					
	REL	<b>→</b>	<b>→</b>	BYE				
	RLC	<b>←</b>	+	200 OK BYE				

TP301054	SIP reference: RFC 3261 [6]	ISUP reference:				
	ITU-T Rec Q.1912.5 [1], clause 7.1.1					
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE m	nessage				
SIP selection	Based on table 15					
criteria:						
ISUP selection						
criteria:						
Test purpose:	Ensure that the SUT in the Idle state on receipt	pt of an IAM message, with the <b>user</b>				
	information parameter set to USI_VALUE:					
		media description defined with the "a = " "b				
	=" and "m=" lines set to a_b_m_LINE	E_VALUE.				
SIP Parameter	INVITE: a_b_m_LINE_VALUE					
values:						
ISUP Parameter	IAM: TMR: ISUP_USI					
values:						
Comments:	ISUP SUT	SIP				
	IAM →	→ INVITE				
	ACM ←	← 180 Ringing				
	ANM ←	← 200 OK INVITE				
	Conversation	Conversation				
	REL →	→ BYE				
	RLC ←	<b>←</b> 200 OK BYE				

Table 14

	Values for test purposes TP301053								
	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>:<b andwidth- value&gt;</b </modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>			
VA_01	"speech"	Audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)			
VA_02	"speech"	Audio	RTP/AVP	Dynamic PT (and possibly a second Dynamic PT)	AS:64	rtpmap: <dynamic-pt> PCMU/8000 (and possibly rtpmap:<dynamic-pt> PCMA/8000)</dynamic-pt></dynamic-pt>			
VA_03	"speech"	Audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000			
VA_04	"speech"	Audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>			
VA_05	"3,1 KHz audio"	Audio	RTP/AVP	0 and/or 8	AS:64	rtpmap:0 PCMU/8000 and/or rtpmap:8 PCMA/8000			
VA_06	"3,1 KHz audio"	Audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)			
VA_07	"3,1 KHz audio"	Audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000			
VA_08	"64 kbit/s unrestricted"	Audio	RTP/AVP	9	AS:64	rtpmap:9 G722/8000			
VA_9	"64 kbit/s unrestricted"	Audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>			

Table 15

VA	1	ıe		ues for test pur	rposes TP301053, TP301054   SDP - a_b_m_LINE_VALUE				
VA	ISUP USI parameter								
		•		HLC IE in ATP		m= line		b= line	a= line
	TMR	Information Transport Capability	User Information Layer 1 Protocol Indicator	High Layer Characteristics Identification	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:&lt; bandwidth- value&gt;</modifier>	rtpmap: <dynamic-pt> <encoding name&gt;/<clock rate="">[/encoding parameters&gt;</clock></encoding </dynamic-pt>
VA_01	"speech"	"Speech"	"G.711 μ-law"	Ignore	audio	RTP/AVP	0 (and possibly 8) (see note 1)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000) See note 1
VA_02	"speech"	"Speech"	"G.711 μ-law"	Ignore	audio	RTP/AVP	Dynamic PT (and possibly a second Dynamic PT) (see note 1)	AS:64	rtpmap: <dynamic-pt> PCMU/8000 (and possibly rtpmap:<dynamic-pt> PCMA/8000) (see note 1)</dynamic-pt></dynamic-pt>
VA_03	"speech"	"Speech"	"G.711 A-law"	Ignore	audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000
VA_04	"speech"	"Speech"	"G.711 A-law"	Ignore	audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>
VA_05	"3,1 KHz audio"	USI Absent		Ignore	audio	RTP/AVP	0 and/or 8 (see note 1)	AS:64	rtpmap:0 PCMU/8000 and/or rtpmap:8 PCMA/8000 (see note 1)
VA_06	"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_07	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 A-law"		audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000
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 A-law"	"Facsimile Group 2/3"	image	udptl	t38	AS:64	Based on T.38.
VA_10	"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_11	"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_12	"64 kbit/s unrestricted"	"Unrestricted digital inf. W/tone/ann."	N/A	Ignore	audio	RTP/AVP	9	AS:64	Rtpmap:9 G722/8000
VA_13	"64 kbit/s unrestricted"	"Unrestricted digital information"	N/A	Ignore	Audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> CLEARMODE/8000 (see note 2)</dynamic-pt>

NOTE 2: CLEARMODE has been standardized.

TP301055	8	SIP reference: RFC 3261 [6]		P reference:				
<b>700</b> /				1912.5 [1], clause 7.1.1				
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE message							
SIP selection	PICS 1/	1						
criteria:								
ISUP selection								
criteria:								
Test purpose:	informa	that the SUT in the Idle state on receiption parameter set to USI_VALUE ar arameter set to TMR_VALUE:  sends an INVITE message with the result of the set to a_b_m_LINE ensure that the SUT is capable of enspecified in RFC 3267 [12]: "RTP paradaptive Multi-Rate (AMR) and Adaptived to the set to a_b_m_LINE and all the set to a_	nd Transmission Notes that the media description of the SDP for the SDP for the stand of the SDP for the stand of the stan	defined with the "a = " "b  or the AMR codec, which is ile storage format for the				
SIP Parameter values:	INVITE:	a_b_m_LINE_VALUE						
ISUP Parameter values:	IAM:	TMR: ISUP_USI						
Comments:	ISUP	SUT		SIP				
	IAM	<b>→</b>	<b>→</b>	INVITE				
	ACM	<b>←</b>	<del>-</del>	180 Ringing				
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE				
		Conversation	Conversa	tion				
	REL	<b>→</b>	<b>→</b>	BYE				
	RLC	+	+	200 OK BYE				

TP301056	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1.2
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 mapping the Called Pacalled Party Number parameter of the IAM:  • to the addr-spec component of the T	o header field in the INVITE message.
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP SUT	SIP
	IAM →	→ INVITE

TP301057	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1.2
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 mapping the Called Party Number parameter of the IAM:  to the addr-spec component of the T  "user=phone" URI parameter if the T	o header field which shall include the
SIP Parameter values:	INVITE: To: sip:; user=phone	
ISUP Parameter		
values:		
Comments:	ISUP SUT	SIP
	IAM →	→ INVITE

TP301058	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.2
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE m	
SIP selection criteria:	, and the second	•
ISUP selection criteria:		
Test purpose:	Ensure that the SUT is mapping the Called Party Number parameter of the IAM an  to the addr-spec component of the To	d the and the followed SAM:
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP SUT IAM → SAM → SAM →	SIP
		→ INVITE

TP301059	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1.2
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE m	nessage
SIP selection		
criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT is mapping in the Called Called Party address information of the IAM at to the addr-spec component of the T "user=phone" URI parameter if the T	nd following SAM:  o header field which shall include the
SIP Parameter	INVITE: To: sip:; user=phone	
values:		
ISUP Parameter values:		
Comments:	ISUP SUT	SIP
	IAM →	
	SAM →	
	SAM →	
		→ INVITE

TP301060	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.4
TSS reference:	ISUP-SIP/Basic call/ Sending of the Initial Add	dress message (IAM)/
SIP selection criteria:		
ISUP selection criteria:	PICS 4/3	
Test purpose:	Ensure that the SUT shall derive the Max-For Counter parameter value by applying a factor. given message should never increase and she successive visit to an IWU, regardless of inter Max-Hop Counter inn the BICC/ISUP domain.	The Max-Forwards header field value for a buld decrease by at least 1 with each vening interworking, and similarly for
SIP Parameter values:		
ISUP Parameter values:		
Comments:	The initial and successively mapped values of accommodate the maximum number of hops to call.	
	ISUP SUT →	SIP → INVITE

TP301061	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1.2
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE m	essage
SIP selection criteria:	PICS 1/9	
ISUP selection criteria:	PICS 1/8	
Test purpose:	the format of the To header field is "-  the forward address information is de INVITE Request-URI.	o header field in the INVITE message;
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP SUT →	SIP → INVITE

TP301062	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1.2
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE m	nessage
SIP selection	PICS 1/9	
criteria:		
ISUP selection	NOT PICS 1/8	
criteria:		
Test purpose:	<ul> <li>the format of the To header field is "-</li> <li>the forward address information is de INVITE Request-URI.</li> </ul>	ddress = "National (significant) number" to header field in the INVITE message;
SIP Parameter	INVITE: To:	
values:		
ISUP Parameter		
values:		
Comments:	ISUP SUT	SIP
	IAM →	→ INVITE

TSS reference:  SUP-SIP/Basic call/ Sending of the INVITE message   SIP selection criteria:   PICS 1/9	TP301063	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.2
criteria:  ISUP selection criteria:  Test purpose:  Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, Nature of address = "International number" of the and the following SAM:  • to the addr-spec component of the To header field;  • the format of the To header field is "+CC+NDC+SN";  • the forward address information is derived from the userinfo component of the INVITE Request-URI.  SIP Parameter values:  ISUP Parameter values:  ISUP SUT SIP	TSS reference:	ISUP-SIP/Basic call/ Sending of the INVITE m	nessage
Test purpose:  Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, Nature of address = "International number" of the and the following SAM:  • to the addr-spec component of the To header field;  • the format of the To header field is "+CC+NDC+SN";  • the forward address information is derived from the userinfo component of the INVITE Request-URI.  SIP Parameter values:  ISUP Parameter values:  ISUP SUT SIP		PICS 1/9	
Called Party Number parameter, Nature of address = "International number" of the and the following SAM:  • to the addr-spec component of the To header field;  • the format of the To header field is "+CC+NDC+SN";  • the forward address information is derived from the userinfo component of the Invite Request-URI.  SIP Parameter values:  ISUP Parameter values:  ISUP SUT SIP		PICS 1/8	
values:  ISUP Parameter values:  Comments: ISUP SUT SIP	Test purpose:	Called Party Number parameter, Nature of acand the following SAM:  to the addr-spec component of the T  the format of the To header field is "-  the forward address information is de	ddress = "International number" of the IAM  o header field;  +CC+NDC+SN";
values: Comments: ISUP SUT SIP		INVITE: To:	
SAM → SAM → INVITE	Comments:	IAM → SAM →	

TP301064	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.1.2
TSS reference:	ISUP-SIP/Basic call/ Sending of the INVI	ΓE message
SIP selection	PICS 1/9	
criteria:		
ISUP selection	NOT PICS 1/8	
criteria:		
Test purpose:	Called Party Number parameter, Nature of the IAM and the following SAM:  to the addr-spec component of t  The format of the To header fiel	
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP S	JT SIP
	IAM →	
	SAM →	
	SAM →	
		→ INVITE

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

TP302001	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.2
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after INV	ITE has been sent
SIP selection	PICS 3/1	
criteria:		
ISUP selection		
criteria:		
Test purpose:	Ensure if the SUT is supporting en bloc address	ssing towards the SIP network, subsequent
	SAMs received after the SUT has sent the IN\	/ITE are ignored.
SIP Parameter		
values:		
ISUP Parameter	SAM; subsequent number (PIXIT)	
values:		
Comments:	ISUP SUT	SIP
	IAM →	→ INVITE
	SAM →	

TP302002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after i	nvite has been sent
SIP selection criteria:	PICS 3/2	
ISUP selection criteria:	PICS 1/5	
Test purpose:		ot of an IAM message containing the Continuity in Indicators parameter which is set to indicate
	sends an INVITE message.	
	On receipt of a SAM from the ISUP the SU	T shall:
	1) Stop timer $T_{oiw3}$ (if it is running).	
	2) $T_{oiw2}$ shall be restarted and the S	SUT shall invoke the following procedures:
	a) The Request-URI and the To h received so far for this call.	eader field of the new INVITE shall contain all digits
	b) A new INVITE with the same C previous INVITE is sent.	all-ID and From header (including tag) as the
	resources that have already be	a new SDP offer. The O-IWU may re-use any en reserved for this call. This re-use of existing lected within the precondition attributes for the SDP
	d) All other contents of the new IN original IAM.	VITE are interworked from the parameters of the
SIP Parameter values:		
ISUP Parameter values:		
Comments:	IAM →	SIP  INVITE  INVITE
	SAM → SAM →	→ INVITE → INVITE

TP302003	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clause 7.2.1
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invi	te has been sent
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15	
ISUP selection	PICS 1/5 AND PICS 4/2	
criteria:		
Test purpose:	Ensure that the SUT in Idle state, on receipt of Check indicator in the Nature of Connection In check required on this circuit.	of an IAM message containing the Continuity ndicators parameter which is set to "continuity
	Sends the INVITE after the receipt o Indicators parameter "continuity ch	f the Continuity message with the Continuity eck successful.
	On receipt of a SAM from the ISUP the SUT	shall:
	1) Stop timer $T_{oiw3}$ (if it is running).	
	2) T <sub>oiw2</sub> shall be restarted and the SU	Γ shall invoke the following procedures:
	a) The Request-URI and the To head received so far for this call.	der field of the new INVITE shall contain all digits
	b) A new INVITE with the same Call- previous INVITE is sent.	ID and From header (including tag) as the
	resources that have already been	ew SDP offer. The O-IWU may re-use any reserved for this call. This re-use of existing ted within the precondition attributes for the SDP
	d) All other contents of the new INVI original IAM.	TE are interworked from the parameters of the
SIP Parameter values:		
ISUP Parameter		
values:		
Comments:	ISUP SUT SII	)
	IAM →	
	SAM →	_
	COT → INVITI	
<u></u>	OAIVI 7 7 INVIII	=

TP302004	s	IP reference: RFC 3261 [6]		eference: 2.5 [1], clause 7.2.1
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent			
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15			
ISUP selection criteria:	PICS 1/5	AND PICS 4/2		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check performed on previous circuit":			
		Sends the INVITE after the receipt o Indicators parameter "continuity ch		ge with the Continuity
	On receip	ot of a SAM from the ISUP the SUT s	hall:	
	1)	Stop timer $T_{\rm oiw3}$ (if it is running).		
	2)	$T_{oiw2}$ shall be restarted and the SUT	shall invoke the follow	ing procedures:
	a)	<ul> <li>The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li> </ul>		
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>			
	c)	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.		
	<ul> <li>d) All other contents of the new INVITE are interworked from the parameters of the original IAM.</li> </ul>			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	ISUP IAM SAM	SUT		SIP
	COT SAM	→ → →	<b>→</b>	INVITE INVITE

TP302005	SIP reference: RFC 3261 [6]		reference: 12.5 [1], clause 7.2.1
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM af	ter invite has been sent	
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15		
ISUP selection criteria:	PICS 1/5 AND PICS 4/2		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit" sending of INVITE is delayed. INVITE message shall not be sent after the Continuity message was received with the Continuity Indicators parameter set to "continuity check failed". On receipt of a SAM from the ISUP the SUT shall:  1) Stop timer $T_{oiw3}$ (if it is running).		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP IAM → SAM → COT	SUT	SIP

TP302007	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1	
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent		
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15		
ISUP selection criteria:	PICS 1/5 AND PICS 4/2		
Test purpose:	Ensure that the SUT in Idle state, on receipt of Check indicator in the Nature of Connection In check required on this circuit" sending of IN INVITE shall not be sent after the ISUP timer Ton receipt of a SAM from the ISUP the SUT states of the Sup timer $T_{oiw3}$ (if it is running).  2) $T_{oiw2}$ shall be restarted.	dicators parameter which is set to " <i>continuity</i> VITE is delayed.  8 expires.	
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → SAM →	SIP	
	T8 e	xpires	
	REL ← RLC →		

TP302009	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1		
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent			
SIP selection criteria:	PICS 3/2 AND PICS 4/5 AND PICS 4/15			
ISUP selection criteria:	PICS 1/5 AND PICS 4/2			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set "continuity check required on this circuit":			
		e reception of the Continuity message with the to "continuity check successful" and after the the SIP network.		
	On receipt of a SAM from the ISUP the SUT	shall:		
	1) Stop timer $T_{oiw3}$ (if it is running).			
	2) $T_{\rm oiw2}$ shall be restarted and the SU	IT shall invoke the following procedures:		
	a) The Request-URI and the To hear received so far for this call.	ader field of the new INVITE shall contain all digits		
	b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.			
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.			
	d) All other contents of the new INV original IAM.	ITE are interworked from the parameters of the		
SIP Parameter values:				
ISUP Parameter				
values:				
Comments:	INVITE. The precondition signalling is concluexchange) the confirmation of a precondition	ignalling procedure using the SDP Offer in the uded upon sending (within an SDP offer-answer being met. The SDP Offer or Answer carrying is sent when the conditions to send a INVITE		
	ISUP SU	T SIP		
	IAM →	→ INVITE		
	SAM →			
	сот →	<ul><li>← 183 Session Progress</li><li>→ UPDATE</li><li>← 200 OK UPDATE</li></ul>		
	SAM	→ INVITE		

TP302010	SIP reference: RFC 3261 [6]		reference: 12.5 [1], clause 7.2.1	
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent			
SIP selection criteria:	PICS 3/2 AND PICS 4/5 AND PICS 4/			
ISUP selection criteria:	PICS 1/5 AND PICS 4/2			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set or "continuity check performed on previous circuit":			
		after the reception of the Contiter set to " <b>continuity check</b> smet in the SIP network.		
	On receipt of a SAM from the ISUP the	e SUT shall:		
	1) Stop timer $T_{oiw3}$ (if it is runni	ng).		
	2) T <sub>oiw2</sub> shall be restarted and	the SUT shall invoke the follow	wing procedures:	
	a) The Request-URI and the received so far for this call	To header field of the new IN $^{ackprime}$ .	/ITE shall contain all digits	
	b) A new INVITE with the sar previous INVITE is sent.	,		
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.			
	d) All other contents of the ne original IAM.	ew INVITE are interworked fro	m the parameters of the	
SIP Parameter values:				
ISUP Parameter values:				
Comments:	The O-IWU should initiate the precond INVITE. The precondition signalling is exchange) the confirmation of a precondition the confirmation of a precondition being message are satisfied.	concluded upon sending (with ndition being met. The SDP C	nin an SDP offer-answer Offer or Answer carrying	
	ISUP	SUT	SIP	
	IAM →	<b>→</b>	INVITE	
	SAM →	-		
	сот →	<b>←</b> →	183 Session Progress UPDATE	
	SAM →	<b>←</b> →	200 OK UPDATE INVITE	

TP302011	SII	P reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1	
TSS reference:		Basic call/Receipt of SAM after invit	e has been sent	
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15			
ISUP selection criteria:	PICS 1/4	AND NOT PICS 4/2		
Test purpose:		Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".		
	The sendi	ng of the INVITE is delayed until all	the following conditions are satisfied:	
		Continuity message, with the Continuishall be received.	uity Indicators parameter set to "continuity"	
		Bearer Set-up indication - for the for Connect Type is "notification not req	ward bearer set-up case where the incoming uired" was received.	
	On receipt	t of a SAM from the BICC the SUT s	hall:	
	1) 8	1) Stop timer $T_{oiw3}$ (if it is running).		
	2) $T_{oiw2}$ shall be restarted and the SUT shall invoke the following procedures:			
	<ul> <li>a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li> </ul>			
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>			
	c)	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.		
	<ul> <li>d) All other contents of the new INVITE are interworked from the parameters of the original IAM.</li> </ul>			
SIP Parameter				
values:				
ISUP Parameter				
values:	DICC	CUT	CID	
Comments:	BICC IAM	SUT →	SIP	
	SAM	<b>→</b>		
	COT	<b>→</b>	→ INVITE	
	SAM	<b>→</b>	→ INVITE	

TP302012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1		
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent			
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15			
ISUP selection criteria:	PICS 1/4 AND PICS 4/2			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".			
	The sending of the INVITE is delayed unti	I all the following conditions are satisfied:		
	<ul> <li>Continuity message, with the Co shall be received.</li> </ul>	ntinuity Indicators parameter set to " <i>continuity</i> "		
		"Connected" - for the forward bearer set-up cases unnelling) where the incoming Connect Type is a fast set-up (backward) case.		
	On receipt of a SAM from the BICC the SI	JT shall:		
	1) Stop timer $T_{oiw3}$ (if it is running).			
	2) $T_{oiw2}$ shall be restarted and the SUT shall invoke the following procedures:			
	<ul> <li>The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li> </ul>			
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>			
	resources that have already be	resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP		
	<ul> <li>d) All other contents of the new INVITE are interworked from the parameters of the original IAM.</li> </ul>			
SIP Parameter				
values:				
ISUP Parameter values:				
Comments:	BICC	SUT SIP		
30	IAM →	50.		
	SAM →			
	COT →	→ INVITE		
	SAM →	→ INVITE		

TP302013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1		
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent			
SIP selection	PICS 3/2 AND NOT PICS 4/15			
criteria:				
ISUP selection	PICS 1/4 AND PICS 4/2			
criteria:				
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".			
	The sending of the INVITE delays until all the	e following conditions are satisfied:		
	<ul> <li>Continuity message, with the Cont shall be received.</li> </ul>	inuity Indicators parameter set to " <i>continuity</i> "		
	Bearer Set-up Connect indication received.	for the backward bearer set-up case was		
	On receipt of a SAM from the BICC the SU	「shall:		
	1) Stop timer $T_{oiw3}$ (if it is running).			
	2) $T_{oiw2}$ shall be restarted and the SUT shall invoke the following procedures:			
	<ul> <li>a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li> </ul>			
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>			
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.			
	<ul> <li>d) All other contents of the new INVITE are interworked from the parameters of the original IAM.</li> </ul>			
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	BICC	JT SIP		
	IAM →			
	SAM → ICOT →	→ INVITE		
	SAM →	→ INVITE → INVITE		
	O/ ((v)	/ INVIIL		

TP302014	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1			
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after in	vite has been sent			
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/15				
ISUP selection criteria:	PICS 1/4 AND PICS 4/2				
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".				
	The sending of the INVITE delays until all th	e following conditions are satisfied:			
	Continuity message, with the Conti be received.	nuity Indicators parameter set to "continuity" shall			
	BNC set-up success indication for received.	cases using bearer control tunnelling was			
	On receipt of a SAM from the BICC the SUT	shall:			
	1) Stop timer $T_{oiw3}$ (if it is running).	1) Stop timer $T_{oiw3}$ (if it is running).			
	2) $T_{oiw2}$ shall be restarted and the SUT shall invoke the following procedures:				
	<ul><li>a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li><li>b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li></ul>				
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.				
	d) All other contents of the new INVITE are interworked from the parameters of the original IAM.				
SIP Parameter values:					
ISUP Parameter values:					
Comments:	BICC SU IAM → SAM →	T SIP			
	COT → SAM →	→ INVITE → INVITE			

TP302015	SIP reference: RFC 3261 [6]	ISUP reference:	
TCC reference	IOLID OLD/Dania adll/Dania of CAM after inci	ITU-T Rec Q.1912.5 [1], clause 7.2.1	
TSS reference: SIP selection	ISUP-SIP/Basic call/Receipt of SAM after invi	te has been sent	
criteria:	1 103 3/2 AND 1 103 4/3 AND 1 103 4/13		
ISUP selection	PICS 1/4 AND PICS 4/2		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".		
	Sends the INVITE message. The events		
	<ul> <li>Continuity message, with the Contin received;</li> </ul>	uity Indicators parameter set to "continuity" was	
	Bearer Set-up indication - for the for Connect Type is "notification not re-	ward bearer set-up case where the incoming equired" was received.	
	are indicating the successful completion of be	earer set-up.	
	On receipt of a SAM from the BICC the SUT	shall:	
	1) Stop timer $T_{oiw3}$ (if it is running).		
	2) $T_{oiw2}$ shall be restarted and the SU	Γ shall invoke the following procedures:	
	<ul> <li>a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li> </ul>		
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>		
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.		
	<ul> <li>d) All other contents of the new INVITE are interworked from the parameters of the original IAM.</li> </ul>		
SIP Parameter values:			
ISUP Parameter			
values:	The O IVII should initiate the precendities of	analling procedure using the CDD Offer in the	
Comments:		gnalling procedure using the SDP Offer in the ded upon sending (within an SDP offer-answer	
	exchange) the confirmation of a precondition being met. The SDP Offer or Answer carrying		
	the confirmation of a precondition being met is sent when the conditions to send a INVITE		
	message are satisfied.		
	BICC SUT	Γ SIP	
	IAM →	· → INVITE	
	SAM →		
	2007	+ 183 Session Progress	
	COT →	→ UPDATE ← 200 OK UPDATE	
	SAM →	→ INVITE	

TP302016	SI	P reference: RFC 3261 [6]		reference: 012.5 [1], clause 7.2.1	
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent				
SIP selection	PICS 3/2 AND PICS 4/5 AND PICS 4/15				
criteria:					
ISUP selection criteria:	PICS 1/4 AND PICS 4/2				
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".				
	Sends the	NVITE message. The events:			
		Continuity message, with the Con received;	inuity Indicators parame	eter set to " <i>continuity</i> " was	
	(	APM with Action indicator set to "( (with, or without bearer control tur 'notification required", and for the	nelling) where the incon	ning Connect Type is	
	are indica	ting the successful completion of	bearer set-up.		
	On receip	t of a SAM from the BICC the SU	Γ shall:		
	1) 5	Stop timer $T_{oiw3}$ (if it is running).			
	2) 7	$\Gamma_{ m oiw2}$ shall be restarted and the S	UT shall invoke the follo	wing procedures:	
	a)	<ul> <li>The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.</li> </ul>			
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>				
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.				
	d) All other contents of the new INVITE are interworked from the parameters of the original IAM.			m the parameters of the	
SIP Parameter values:					
ISUP Parameter					
values:					
Comments:	The O-IWU should initiate the precondition signalling procedure using the SDP Offer in the INVITE. The precondition signalling is concluded upon sending (within an SDP offer-answer exchange) the confirmation of a precondition being met. The SDP Offer or Answer carrying the confirmation of a precondition being met is sent when the conditions to send a INVITE message are satisfied.				
	BICC IAM	<b>→</b>	JT <b>→</b>	SIP INVITE	
	SAM	<b>→</b>	<del>&lt;</del>	183 Session Progress	
	СОТ	<b>→</b>	<b>→</b> ←	UPDATE 200 OK UPDATE	
	SAM	<b>→</b>	<b>→</b>	INVITE	

TP302017	SIP reference: RFC 3261		ISUP reference:
T00 (	10115 015/5		Q.1912.5 [1], clause 7.2.1
TSS reference: SIP selection	ISUP-SIP/Basic call/Receipt of SAPICS 3/2 AND PICS 4/5 AND PIC		t
criteria:	FICS 3/2 AIND FICS 4/3 AIND FIC	3 4/ 13	
ISUP selection	PICS 1/4 AND PICS 4/2		
criteria:			
Test purpose:	Ensure that the SUT in Idle state,	on receipt of an IAM messa	ge indicating "COT to be
	expected".		
	Sends the INVITE message. The	events:	
	<ul> <li>Continuity message, with received;</li> </ul>	n the Continuity Indicators pa	arameter set to " <i>continuity</i> " was
	<ul> <li>Bearer Set-up Connect i received.</li> </ul>	ndication - for the backward	bearer set-up case was
	are indicating the successful comp	oletion of bearer set-up.	
	On receipt of a SAM from the BIC	C the SUT shall:	
	1) Stop timer $T_{oiw3}$ (if it is running).		
	2) $T_{oiw2}$ shall be restarted	and the SUT shall invoke the	e following procedures:
	a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.		
	<ul> <li>A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.</li> </ul>		
	resources that have al	all be reflected within the pro	ne O-IWU may re-use any call. This re-use of existing econdition attributes for the SDP
	<ul> <li>d) All other contents of the original IAM.</li> </ul>	e new INVITE are interwork	ed from the parameters of the
SIP Parameter			
values:			
ISUP Parameter values:			
Comments:	The O-IWU should initiate the pre	condition signalling procedu	re using the SDP Offer in the
	INVITE. The precondition signallir		
	exchange) the confirmation of a p		
	the confirmation of a precondition message are satisfied.	being met is sent when the	conditions to send a INVITE
	BICC	SUT	SIP
	IAM → SAM →	<b>→</b>	INVITE
		<b>←</b>	183 Session Progress
	COT →	÷	UPDATE
	SAM →	<b>←</b> →	200 OK UPDATE INVITE

TP302018	SIP reference: RFC 3261 [6]	ISUP reference:	
T00 (		ITU-T Rec Q.1912.5 [1], clause 7.2.1	
TSS reference: SIP selection	ISUP-SIP/Basic call/Receipt of SAM after inv	vite has been sent	
criteria:	FICS 3/2 AND FICS 4/3 AND FICS 4/13		
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 indicating "COT to	
	be expected".		
	Sends the INVITE message. The events:		
	<ul> <li>Continuity message, with the Continuity received;</li> </ul>	inuity Indicators parameter set to "continuity" was	
	BNC set-up success indication for c received.	cases using bearer control tunnelling was	
	are indicating the successful completion of be	pearer set-up.	
	On receipt of a SAM from the BICC/ISUP the	e SUT shall:	
	1) Stop timer $T_{oiw3}$ (if it is running).		
	2) $T_{oiw2}$ shall be restarted and the SUT shall invoke the following procedures:		
	a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call.		
	b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent.		
	c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question.		
	d) All other contents of the new INVI original IAM.	/ITE are interworked from the parameters of the	
SIP Parameter values:			
ISUP Parameter			
values:			
Comments:	The O-IWU should initiate the precondition signalling procedure using the SDP Offer in the INVITE. The precondition signalling is concluded upon sending (within an SDP offer-answer exchange) the confirmation of a precondition being met. The SDP Offer or Answer carrying the confirmation of a precondition being met is sent when the conditions to send a INVITE message are satisfied.		
	BICC SU IAM → SAM →	JT SIP → INVITE	
	JAIVI 7	← 183 Session Progress	
	COT →	→ UPDATE	
	SAM →	<ul><li>← 200 OK UPDATE</li><li>→ INVITE</li></ul>	

TP302019	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.2.1
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after invi	te has been sent
SIP selection criteria:	PICS 3/2	
ISUP selection criteria:	PICS 1/4	
Test purpose:	The SUT in Idle state, on receipt of an IAM me	essage sends a INVITE message.
	On receipt of a SAM from the BICC/ISUP the  1) Stop timer T <sub>oiw3</sub> (if it is running).  2) T <sub>oiw2</sub> shall be restarted and the SUT  a) ensure that if timer T <sub>oiw2</sub> has expi  b) after the SUT has sent the INVITE	Γ shall invoke the following procedures: red, subsequent SAMs received;
SIP Parameter values:		
ISUP Parameter		
values:		
Comments:	ISUP SUT	
	IAM →	→ INVITE
	SAM →	→ INVITE
		<sub>2</sub> expired
	SAM →	

TP302020	SIP reference: RFC 3261	ISUP reference: Q.1912.5 § 7.2.1
TSS reference:	ISUP-SIP/Basic call/Receipt of SAM after	invite has been sent
SIP selection	PICS 3/2	
criteria:		
ISUP selection criteria:	PICS 3/8	
Test purpose:	The SUT in Idle state, on receipt of an IAM message On receipt of a SAM from the BICC/ISUP the SUT shall:  • sends a INVITE message if the minimum number of digits for routing the call has been received in the IAM and the SAM  Toiw1 amd Toiw2 shall be started and the SUT shall invoke the following procedures:  • ensure that if timer Toiw2 has expired, subsequent SAMs received after the SUT has sent the INVITE are ignored.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT	SIP
	IAM →	
	SAM → T <sub>oiw2</sub> expired	→ INVITE
	SAM →	

## 6.2.2.3 Sending of the ACM message

TP303001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) a) and	
		7.3.1	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	ssage	
SIP selection	PICS 1/1 AND PICS 3/1AND NOT PICS 4/24		
criteria:			
ISUP selection	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 and the sending complete indication:		
	Sends the INVITE message to called user.		
	<ul> <li>Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".</li> </ul>		
SIP Parameter			
values:	IAMA Called a anti-month and a second of a month of		
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encountered (1) ISUP indicator: ISUP not used all the way		
	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT		
	IAM →	→ INVITE	
	ACM <b>←</b>		

TP303002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) a) and 7.3.1
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	sage
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 1/9	
ISUP selection criteria:	PICS 4/9	
Test purpose:		ete indication:
SIP Parameter values:		
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indicati (10)	ion(00) or ordinary subscriber (01) or payphone
Comments:	ISUP SUT IAM → ACM ←	SIP → INVITE

TP303003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) b) and	
		7.3.1	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM mes	sage	
SIP selection	PICS 1/1 AND PICS 3/1AND NOT PICS 4/24		
criteria:			
ISUP selection	PICS 4/9		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of		
	number of digits used in the national numbering	g plan:	
	0 1 1 10 10 17 17		
	Sends the INVITE message to the ca	lled user.	
	• Sanda the ACM massage with the CE	C indicator set to "no indication (00)" the	
	<ul> <li>Sends the ACM message with the CPS indicator set to "no indication (00)", the</li> <li>Called party's category indicator set to "no indication(00)" or "ordinary subscriber</li> </ul>		
	(01)" or "payphone (10)", the <b>interworking indicator</b> set to "interworking		
	encountered (1)", the <b>ISUP indicator</b> set to "ISUP not used all the way", the <b>ISDN</b>		
	access indicator set to "terminating access non-ISDN".		
SIP Parameter			
values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encountered (1)		
	ISUP indicator: ISUP not used all the way		
0	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	ACM <b>←</b>		

TP303004	SIP reference: RFC 3261 [6]	ISUP reference: T Rec Q.1912.5 [1], clauses 7.1, 1) b) and 7.3.1
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message	9
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	PICS 4/9	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan:  Sends the INVITE message to called user.  Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".	
SIP Parameter values:		
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT IAM → ACM ←	SIP → INVITE

TP303005	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) c) and	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	7.3.1	
SIP selection		ssage	
criteria:	PICS 1/1 AND PICS 3/1AND NOT PICS 4/24		
ISUP selection	PICS 4/9		
criteria:	1 100 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party:  • Sends the INVITE message to the called user.  • Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
values.	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encountered (1)		
	ISUP indicator: ISUP not used all the way		
	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT		
	IAM →	→ INVITE	
	ACM ←		

TP303006	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) c) and 7.3.1
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM me	ssage
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	PICS 4/9	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party:  • Sends the INVITE message to called user.  • Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".	
SIP Parameter values:		
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT IAM → ACM ←	SIP → INVITE

SIP reference: RFC 3261 [6]	ISUP reference:
	ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) d),
	7.3.1 and 7.4
PICS 1/1 AND PICS 3/1 AND NOT PICS 4/24	
Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>oiw1</sub> after the receipt of the latest address message:  • Sends the INVITE message to the called user.  • Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".	
IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: interworking encountered (1) ISUP indicator: ISUP not used all the way ISDN access indicator: "terminating access non-ISDN"	
ISUP SUT	SIP
IAM →	
Toiw	1 expiry
ACM ←	→ INVITE
	ISUP-SIP /Basic call/Sending of the ACM mes PICS 1/1 AND PICS 3/1 AND NOT PICS 4/24  Ensure that the SUT in Idle state, on receipt or called party number where the end of addrest timer Toiw1 after the receipt of the latest addres  • Sends the INVITE message to the called party's category indicator s (01)" or "payphone (10)", the interwork encountered (1)", the ISUP indicator access indicator set to "terminating  IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indicat (10) interworking indicator: interworking encount ISUP indicator: ISUP not used all the way ISDN access indicator: "terminating access r ISUP IAM  Toiw

TP303008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) d), 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM me:	ssage
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>oiw1</sub> after the receipt of the latest address message:  • Sends the INVITE message to called user.  • Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".	
SIP Parameter values:		
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT	
		<sub>/1</sub> expiry
	ACM <b>←</b>	→ INVITE

TP303010	SIP reference: RFC 3261 [6]	ISUP reference:	
T00 (	ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.3.1		
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	ssage	
SIP selection	PICS 1/2 AND PICS 3/2		
criteria:			
ISUP selection 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 <sub>oiw2</sub> and invoke the appropriate outgoing SIP signalling procedure):  • Sends an INVITE message to the called user and after the expiration of T <sub>oiw2</sub> .		
SIP Parameter	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)".		
values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT	SIP	
	IAM →		
	SAM →		
	SAM →	→ INVITE	
	T <sub>oiw</sub>	<sub>2</sub> expiry	
	ACM	<del>-</del>	

TP303011	CID reference: DEC 2264 [6]	ISUP reference:	
17303011	SIP reference: RFC 3261 [6]	100111011011	
		ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) a) and 7.3.1	
TCC reference:	ICUID CID /Desis cell/Conding of the ACM rese	1	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes		
SIP selection	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/24		
criteria:			
ISUP selection	NOT PICS 4/9		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number and the sending complete indication receipt of a 180 Ringing message:		
	<ul> <li>Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".</li> </ul>		
SIP Parameter			
values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encount	rered (1)	
	ISUP indicator: ISUP not used all the way		
	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	ACM ←	← 180 Ringing	

TP303012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) a) and 7.3.1	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	sage	
SIP selection criteria:	PICS 1/2 AND PICS 3/1		
ISUP selection criteria:	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 and the sending complete indication, on receipt of a 180 Ringing message:  • Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: subscriber free (01) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT IAM → ACM ←	SIP → INVITE ← 180 Ringing	

TP303013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) b) and	
		7.3.1	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage	
SIP selection	PICS 1/1 AND PICS 3/1		
criteria:			
ISUP selection criteria:	NOT PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan on receipt of a 180 Ringing message:  Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
	interworking indicator: interworking encountered (1)		
	ISUP indicator: ISUP not used all the way		
0	ISDN access indicator: "terminating access		
Comments:	ISUP SUT	SIP	
	IAM ->	→ INVITE	
	ACM <b>←</b>	← 180 Ringing	

TP303014	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) b) and	
		7.3.1	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage	
SIP selection criteria:	PICS 1/2 AND PICS 3/1		
ISUP selection criteria:	NOT PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan on receipt of a 180 Ringing message:  • Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: subscriber free (01) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT IAM → ACM ←	SIP → INVITE ← 180 Ringing	

TP303015	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) c) and		
		7.3.1		
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage		
SIP selection	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/24			
criteria:				
ISUP selection	NOT PICS 4/9			
criteria:				
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by 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 on receipt of a 180 Ringing message:  • Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".			
SIP Parameter values:				
ISUP Parameter	IAM; Called party number: complete number			
values:	ACM, CPS indicator: subscriber free (01)			
		Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)	- m - d (4)		
	interworking indicator: interworking encountered (1)			
	ISUP indicator: ISUP not used all the way			
Commonts	ISDN access indicator: "terminating access			
Comments:	ISUP SUT	SIP		
	IAM →	→ INVITE		
	ACM ← 180 Ringing			

TP303016	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) c) and 7.3.1	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage	
SIP selection criteria:	PICS 1/2 AND PICS 3/1		
ISUP selection criteria:	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 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 on receipt of a 180 Ringing message:  • Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter			
values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	ACM <b>←</b>	← 180 Ringing	

TP303017	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1 1) d), 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me:	ssage	
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/24		
ISUP selection criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>oiw1</sub> after the receipt of the latest address message:  • 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 "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10) interworking indicator: interworking encountered (1) ISUP indicator: ISUP not used all the way ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	SIP	
	IAM →		
		expiry	
	ACM <b>←</b>	→ INVITE	

TP303018	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) d), 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage	
SIP selection criteria:	PICS 1/2 AND PICS 3/1		
ISUP selection criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>oiw1</sub> after the receipt of the latest address message:  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)".		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT IAM →	SIP <sub>1</sub> expiry	
	ACM ←	→ INVITE	

TP303019	SIP reference: RFC 3261 [6]		UP reference: 2.5 [1], clauses 7.1, 1 a) and 7.3.2
TSS reference:	ISUP-SIP /Basic call/Sending of the ACI	M message	
SIP selection	PICS 3/1		
criteria:			
ISUP selection	NOT PICS 4/9		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number and the sending complete indication receipt of a 183 Session Progress:  Sends the INVITE message to called user.  No BICC/ISUP message is sent backward.		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:			
Comments:	ISUP	SUT	SIP
	IAM →	<b>→</b>	INVITE
		+	183 Session Progress

TP303020	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1 b) and 7.3.2	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me		
SIP selection criteria:	PICS 3/1		
ISUP selection criteria:	NOT PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan on receipt of a 183 Session Progress:  No BICC/ISUP message is sent backward.		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number		
Comments:	ISUP SUT IAM →	SIP → INVITE ← 183 Session Progress	

TP303021	SIP reference: RFC 3261 [6]	ITU-T Rec Q.1912.5	reference: [1], clauses 7.1, 1 c) and 7.3.2
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	essage	
SIP selection	PICS 3/1		
criteria:			
ISUP selection criteria:	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 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 on receipt of a 183 Session Progress:  No BICC/ISUP message is sent backward.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT	→ +	SIP INVITE 183 Session Progress

TP303022	SIP	reference: RFC 3261		ITU-T Rec		reference: [1], clauses 7.1 and 7.3.2
TSS reference:	ISUP-SIP /E	Basic call/ Sending of	the ACM mes	ssage		
SIP selection criteria:	PICS 3/1					
ISUP selection criteria:	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 <sub>oiw1</sub> after the receipt of the latest address message on receipt of a 183 Session Progress:  • No BICC/ISUP message is sent backward.					
SIP Parameter						
values:						
ISUP Parameter						
values:						
Comments:	ISUP		SUT			SIP
	IAM	<b>→</b>				
	ACM	<b>←</b>	T <sub>oiw</sub>	<sub>1</sub> expiry	<b>→</b>	INVITE
					<del>(</del>	183 Session Progress

TP303023	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes		
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND PICS 4/15 AND NOT PICS 4/24		
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number, the sending complete indication, 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.		
	<ul> <li>Sends the ACM message with the CPS indicator set to "no indication (00)", the         Called party's category indicator set to "no indication(00)" or "ordinary subscriber         (01)" or "payphone (10)", the interworking indicator set to "interworking         encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN         access indicator set to "terminating access non-ISDN".</li> </ul>		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	interworking indicator: interworking encountered (1) ISUP indicator: ISUP used all the way		
Commonts	ISDN access indicator: "terminating access r	SIP	
Comments:	ISUP SUT	→ INVITE	
	7	← 183 Session Progress	
	COT →	→ UPDATE	
	ACM ←		

TP303024	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	ssage	
SIP selection	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND PICS 4/15		
criteria:			
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	<ul> <li>Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number, the sending complete indication and the continuity check is performed (ISUP) or COT is expected (BICC):         <ul> <li>Sends the INVITE message to called user.</li> </ul> </li> <li>The SUT shall withhold sending ACM until a successful continuity indication has been received.</li> <li>Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".</li> </ul>		
SIP Parameter			
values:	IAM. Called months recombined assembled assembled		
ISUP Parameter values:	IAM; Called party number: complete number		
values.	ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 183 Session Progress	
	COT →	→ UPDATE	
	ACM <b>←</b>		

TP303025	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7	1 and 7 4
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message		
SIP selection	PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND PICS 4/15 AND NOT PICS 4/24		
criteria:	FIGS 1/1 AIND FIGS 3/1 AIND FIGS 4/3 AIND F	103 4/13 AND NOT FICS 4/24	
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan 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 "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, <b>CPS indicator:</b> no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encountered (1)		
	ISUP indicator: ISUP used all the way		
0	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	<del></del>	
	IAM →	→ INVITE ← 183 Session F	Progress
	сот →	→ UPDATE	iogiess
	ACM +	, OI BATE	
<u> </u>	<u>,</u>		

TP303026	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage	
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND PICS 4/15		
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan 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)".		
SIP Parameter values:			
ISUP Parameter	IAM. Called north, number, complete number		
values:	IAM; Called party number: complete number		
values.	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE + 183 Session Progress	
	сот →	→ UPDATE	
	ACM <b>←</b>		

TP303027	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message		
SIP selection	PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND F	PICS 4/15 AND NOT PICS 4/24	
criteria:			
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party 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 "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)	. (00)	
	. , , , ,	ion(00) or ordinary subscriber (01) or payphone	
	(10)	ered (1)	
	interworking indicator: interworking encountered (1) ISUP indicator: ISUP used all the way		
	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT		
	IAM →	→ INVITE	
		← 183 Session Progress	
	COT →	→ UPDATE	
	ACM <b>←</b>		

TP303028	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE	message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND PICS 4/15		
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party 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)".		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SU	T SIP	
	IAM →	→ INVITE	
		← 183 Session Progress	
	COT →	→ UPDATE	
	ACM <b>←</b>		

TP303029	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message		
SIP selection	PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND PICS 4/15 AND NOT PICS 4/24		
criteria:			
ISUP selection criteria:	PICS 4/2		
Test purpose:	<ul> <li>been received.</li> <li>Sends the ACM message with the Cl Called party's category indicator s (01)" or "payphone (10)", the interwork</li> </ul>	ess signalling is determined by the expiration ess message and the continuity check is  I user.  I until a successful continuity indication has  PS indicator set to "no indication (00)", the et to "no indication(00)" or "ordinary subscriber orking indicator set to "interworking r set to "ISUP not used all the way", the ISDN	
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10) interworking indicator: interworking encount	ered (1)	
	ISUP indicator: ISUP used all the way	0104 (1)	
	ISDN access indicator: "terminating access r	non-ISDN"	
Comments:	ISUP SUT		
	IAM →	→ INVITE	
		← 183 Session Progress	
	COT →	→ UPDATE	
	$T_{oiw}$	<sub>1</sub> expiry	
	ACM ←		

TP303030	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message		
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND F	PICS 4/15	
ISUP selection criteria:	PICS 4/2		
Test purpose:	<ul> <li>Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T<sub>oiw1</sub> after the receipt of the latest address message and the continuity check is performed (ISUP) or COT is expected (BICC):         <ul> <li>Sends the INVITE message to called user.</li> </ul> </li> <li>The SUT shall withhold sending ACM until a successful continuity indication has been received.</li> <li>Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".</li> </ul>		
SIP Parameter values:			
ISUP Parameter values:	(10)	ion(00) or ordinary subscriber (01) or payphone	
Comments:	ISUP SUT	SIP	
	IAM →	<ul><li>→ INVITE</li><li>← 183 Session Progress</li></ul>	
		→ UPDATE 1 expiry	
	ACM <b>←</b>		

TP303032	SIP ref	erence: RFC 3261 [6]	IT		P reference: 2.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message				
SIP selection criteria:	PICS 1/2 AND	PICS 3/2 AND PICS 4/	5 AND PICS	4/15	
ISUP selection criteria:	PICS 4/2				
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 <sub>oiw2</sub> and invoke the appropriate outgoing SIP signalling procedure) and the continuity check is performed (ISUP) or COT is expected (BICC):  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)".				
SIP Parameter values:					
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)				
Comments:	ISUP		SUT		SIP
	IAM	<b>→</b>			
	SAM	<b>→</b>		<b>→</b>	INVITE
	сот	<b>→</b>	T over	<b>←</b> →	183 Session Progress UPDATE
	ACM	<b>+</b>	T <sub>oiw2</sub> exp	ліу	

TP303033	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	
SIP selection	PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND F	v
criteria:		
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/9	
Test purpose:	Sends the ACM message with the Cl     Called party's category indicator s     (01)" or "payphone (10)", the interwork	lete, the continuity check is performed (ISUP) or a 180 Ringing message:  PS indicator set to "subscriber free (01)", the et to "no indication(00)" or "ordinary subscriber brking indicator set to "interworking r set to "ISUP not used all the way", the ISDN
SIP Parameter values:		
ISUP Parameter values:	(10) interworking indicator: interworking encount ISUP indicator: ISUP used all the way ISDN access indicator: "terminating access r	ion(00) or ordinary subscriber (01) or payphone ered (1)
Comments:	ISUP SUT	SIP → INVITE
	I/AIVI 7	← 183 Session Progress
	COT →	→ UPDATE
	ACM ←	← 180 RINGING

TP303034	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	ssage	
SIP selection	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND F	PICS 4/15	
criteria:			
ISUP selection criteria:	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 and the sending complete indication, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	(10)	ion(00) or ordinary subscriber (01) or payphone	
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 183 Session Progress	
	COT →	→ UPDATE	
	ACM <b>←</b>	← 180 RINGING	

TP303035	SIP reference: RFC 3261 [6]	ISUP reference:	
TSS reference:	ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.4		
SIP selection	ISUP-SIP /Basic call/ Sending of the ACM me: PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND F		
criteria:	FICS 1/1 AND FICS 3/1 AND FICS 4/3 AND F	103 4/13 AND NOT FICS 4/24	
ISUP selection criteria:	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 maximum number of digits used in the national numbering plan, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: interworking encountered (1) ISUP indicator: ISUP used all the way ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	COT → ACM ←	<ul><li>← 183 Session Progress</li><li>→ UPDATE</li><li>← 180 RINGING</li></ul>	

TP303036	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1	
		and 7.4	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me		
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND F	PICS 4/15	
ISUP selection criteria:	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 maximum number of digits used in the national numbering plan, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
Comments:	ISUP SUT	SIP	
	IAM → →	INVITE	
	<b>+</b>	183 Session Progress	
	COT → →	UPDATE	
	ACM ← ←	180 RINGING	

TP303037	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.3.1	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message		
SIP selection	PICS 1/1 AND PICS 3/1 AND PICS 4/5 AND F	PICS 4/15 AND NOT PICS 4/24	
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 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, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: subscriber free (01) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: interworking encountered (1) ISUP indicator: ISUP used all the way ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 183 Session Progress	
	COT →	→ UPDATE	
	ACM <b>←</b>	← 180 RINGING	

TP303038	SIP reference: RFC 3261 [6]	ISUP refe	
		ITU-T Rec Q.1912.5 [1], o	clauses 7.1 and 7.3.1
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage	
SIP selection	PICS 1/2 AND PICS 3/1 AND PICS 4/5 AND	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 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, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: subscriber free (01)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
Comments:	ISUP SUT	SIF	)
	IAM →	→ IN	VITE
			3 Session Progress
	COT →		PDATE
	ACM <b>←</b>	← 18	0 RINGING

TP303039	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	sage
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15	AND NOT PICS 4/24
ISUP selection criteria:	PICS 4/2 AND PICS 4/9	
Test purpose:	<ul> <li>been received.</li> <li>Sends the ACM message with the CI Called party's category indicator s (01)" or "payphone (10)", the interwork.</li> </ul>	user.  I until a successful continuity indication has  PS indicator set to "no indication (00)", the et to "no indication(00)" or "ordinary subscriber orking indicator set to "interworking set to "ISUP not used all the way", the ISDN
SIP Parameter values:		
ISUP Parameter	IAM; Called party number: complete number	
values:	ACM, CPS indicator: no indication (00)	
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone	
	(10)	ared (1)
	<b>interworking indicator</b> : interworking encounter <b>ISUP indicator</b> : ISUP used all the way	erea (1)
	ISDP indicator: ISDP used all the way ISDN access indicator: "terminating access non-ISDN"	
Comments:	ISUP SUT	SIP
	IAM →	<b>5</b>
	COT →	→ INVITE
	ACM ←	

TP303040	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	sage
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15	
ISUP selection criteria:	PICS 4/2 AND PICS 4/9	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number, the sending complete indication 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)".	
SIP Parameter		
values:	IAMA Colled manta manchani agentici access	
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT	SIP
	IAM       →         COT       →         ACM       ←	→ INVITE

TP303041	SIP reference: RFC 3261 [6]		UP reference:
T00 (	10115 015 /5 : 11/0 1: (1/ 4 014		2.5 [1], clauses 7.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM mes		15.
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15	AND NOT PICS 4	/24
ISUP selection criteria:	PICS 4/2 AND PICS 4/9		
Test purpose:	Ensure that the SUT in Idle state, on receipt of number of digits used in the national numbering (ISUP) or COT is expected (BICC):  Sends the INVITE message to called the sum of the SUT shall withhold sending ACM been received.  Sends the ACM message with the CI Called party's category indicator is (01)" or "payphone (10)", the interwood encountered (1)", the ISUP indicator access indicator set to "terminating"	user.  I until a successful  PS indicator set to "no indication orking indicator set to "ISUP not user set to	continuity check is performed  continuity indication has  "no indication (00)", the (00)" or "ordinary subscriber et to "interworking used all the way", the ISDN
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encount	ered (1)	
	ISUP indicator: ISUP used all the way		
	ISDN access indicator: "terminating access r	non-ISDN"	
Comments:	ISUP SUT		SIP
	IAM →	_	
	COT →	<b>→</b>	INVITE
	ACM ←		

TP303042	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	ssage
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15	
ISUP selection criteria:	PICS 4/2 AND PICS 4/9	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan 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)".	
SIP Parameter		
values:	IAM. Called party pumban, complete constitution	
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT	SIP
	IAM	→ INVITE

TP303043	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1	
		and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE m	essage	
SIP selection	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15	AND NOT PICS 4/24	
criteria:			
ISUP selection	PICS 4/2 AND PICS 4/9		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by 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 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 "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".		
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10)		
	interworking indicator: interworking encount	ered (1)	
	ISUP indicator: ISUP used all the way	IODAII	
Comments:	ISDN access indicator: "terminating access r		
Comments:	ISUP SUT	SIP	
		→ INVITE	
		Z IIIVIIL	
	IAM       →         COT       →         ACM       ←	→ INVITE	

TP303044	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE m	essage
SIP selection	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15	
criteria:		
ISUP selection	PICS 4/2 AND PICS 4/9	
criteria:		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by 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 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)".	
SIP Parameter		
values:		
ISUP Parameter values:	IAM; Called party number: complete number	
values.	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT	SIP
	COT → ACM	→ INVITE

TP303045	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4	
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE m		
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15	AND NOT PICS 4/24	
ISUP selection	PICS 4/2		
criteria:			
Test purpose:	<ul> <li>been received.</li> <li>Sends the ACM message with the CI Called party's category indicator s (01)" or "payphone (10)", the interwork.</li> </ul>	es signalling is determined by the expiration less message and the continuity check is user.  If until a successful continuity indication has   PS indicator set to "no indication (00)", the let to "no indication(00)" or "ordinary subscriber brking indicator set to "interworking rest to "ISUP not used all the way", the ISDN	
SIP Parameter values:			
ISUP Parameter	IAM; Called party number: complete number		
values:	ACM, CPS indicator: no indication (00)		
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone		
	(10) interworking indicator: interworking encountered (1)		
	ISUP indicator: ISUP used all the way		
	ISDN access indicator: "terminating access non-ISDN"		
Comments:	ISUP SUT	SIP	
	IAM →	NIN/ITE	
	COT →	→ INVITE 1 expiry	
	ACM ←	1 5/4")	
	MOINI E		

TP303046	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE m	essage
SIP selection	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15	
criteria:		
ISUP selection	PICS 4/2	
criteria:		
Test purpose:	<ul><li>been received.</li><li>Sends the ACM message with the CI</li></ul>	ss signalling is determined by the expiration ses message and the continuity check is
SIP Parameter		
values:	IAM Called north number complete acceptant	
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: no indication (00)	
values.		ion(00) or ordinary subscriber (01) or payphone
	(10)	(a., a. payphone
Comments:	ISUP SUT	SIP
	IAM →	N. WITE
	COT →	→ INVITE
	J	expiry
	ACM ←	

TP303047	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1
T00 (	10115 015 /5 : 11/0 1: (11 15) //75	and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE m	essage
SIP selection	PICS 1/2 AND PICS 3/2 AND NOT PICS 4/15	
criteria:		
ISUP selection criteria:	PICS 3/8 AND PICS 4/2	
Test purpose:	Engure that the CLIT if everlan addressing is to	he wood toward the CID nativers, an receipt of
	Ensure that the SUT if overlap addressing is to be used toward the SIP network, on receipt of an IAM message containing the <b>minimum number of digits required for routing the call</b> has been received (start timer T <sub>oiw2</sub> and invoke the appropriate outgoing SIP signalling procedure) and the continuity check is performed (ISUP) or COT is expected (BICC):  • 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)".	
SIP Parameter		
values:	IAM C. III. I and a second as	
ISUP Parameter	IAM; Called party number: complete number	
values:	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone	
	(10)	
	(10)	
Comments:	ISUP SUT	SIP
	IAM →	-
	SAM →	
	COT →	→ INVITE
	T <sub>oiw</sub>	<sub>2</sub> expiry
	ACM <b>←</b>	

TP303048	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	sage
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15 AND NOT PICS 4/24	
ISUP selection criteria:	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 and the sending complete, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".	
SIP Parameter values:		
ISUP Parameter	IAM; Called party number: complete number	
values:	ACM, CPS indicator: subscriber free (01)	
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: interworking encountered (1) ISUP indicator: ISUP used all the way	
	ISDN access indicator: "terminating access non-ISDN"	
Comments:	ISUP SUT	SIP
	IAM →	
	COT →	→ INVITE
	ACM <b>←</b>	

TP303049	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15	
ISUP selection criteria:	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 and the sending complete indication, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".	
SIP Parameter values:		
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: subscriber free (01) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT IAM → COT → ACM ←	SIP → INVITE

TP303050	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message	
SIP selection	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15 AND NOT PICS 4/24	
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 maximum number of digits used in the national numbering plan, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".	
SIP Parameter values:		
ISUP Parameter	IAM; Called party number: complete number	
values:	ACM, CPS indicator: subscriber free (01)	
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone	
	(10) interworking indicator: interworking encountered (1)	
	ISUP indicator: ISUP used all the way	
	ISDN access indicator: "terminating access non-ISDN"	
Comments:	ISUP SUT	SIP
	IAM →	
	COT →	→ INVITE
	ACM <b>←</b>	

TP303051	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15	
ISUP selection criteria:	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 maximum number of digits used in the national numbering plan, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".	
SIP Parameter values:		
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: subscriber free (01) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)	
Comments:	ISUP SUT	SIP
	COT → ACM ←	→ INVITE

TP303052	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1 and 7.3.1
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me:	
SIP selection	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15	
criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/15	AND NOT PICS 4/24
ISUP selection	PICS 4/2 AND NOT PICS 4/9	
criteria:	PICS 4/2 AIND 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 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, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".	
SIP Parameter values:		
ISUP Parameter	IAM; Called party number: complete number	
values:	ACM, <b>CPS indicator:</b> subscriber free (01)	
varaco.	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone	
	(10)	
	interworking indicator: interworking encountered (1)	
	ISUP indicator: ISUP used all the way	
	ISDN access indicator: "terminating access non-ISDN"	
Comments:	ISUP SUT	SIP
	IAM →	
	COT →	→ INVITE
	ACM ←	

TP303053	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.3.1	
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message		
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 4/15		
ISUP selection criteria:	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 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, 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 "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)".		
SIP Parameter values:			
ISUP Parameter values:	IAM; Called party number: complete number ACM, CPS indicator: subscriber free (01) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)		
Comments:	ISUP SUT IAM → COT → ACM ←	SIP → INVITE	

TP303054	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1) a) and		
	7.3.1			
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	ssage		
SIP selection	PICS 1/2 AND PICS 1/9 AND PICS 3/1			
criteria:				
ISUP selection criteria:	PICS 4/9			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number and the sending complete indication:			
	Sends the INVITE message to called user.			
	Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "interworking encountered (1)", the ISUP indicator set to "ISUP not used all the way", the ISDN access indicator set to "terminating access non-ISDN".			
SIP Parameter values:				
ISUP Parameter	IAM; Called party number: complete number			
values:	ACM, CPS indicator: no indication (00)			
	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone			
	(10)			
	interworking indicator: "interworking encountered (1)"			
	ISUP indicator: "ISUP not used all the way"			
Comments:	ISDN access indicator: "terminating access non-ISDN" ISUP SUT SIP			
Comments:	IIAM →	→ INVITE		
	ACM ←			

TP303055	SIP reference: RFC 3261 [6]		<b>UP reference:</b> N 383 001 § 7.3.1.1
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM i		
SIP selection criteria:	PICS 1/2 AND PICS 1/9 AND PICS 3/2 AND PICS 4/24		
ISUP selection	NOT PICS 4/9		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receip	ot of an IAM message	after the expiry of Toiw2:
	Sends the INVITE message to ca	lled user.	
	Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "no interworking encountered (0)", the ISUP indicator set to "ISDN user part/BICC used all the way (0)", the ISDN access indicator set to "terminating access ISDN ".(1)		
SIP Parameter			
values: ISUP Parameter	ACM CBS indicator: no indication (00)		
values:	ACM, CPS indicator: no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)  interworking indicator: no interworking encountered (0)  ISUP indicator: ISDN user part/BICC used all the way (0)  ISDN access indicator: terminating access ISDN (1)		
	ISUP	SUT	SIP
	IAM →	→	INVITE
	li uvi	<del>,</del>	=
		<b>→</b>	ACK
	SAM →	<b>→</b>	INVITE
		<b>←</b>	404/484
		<b>→</b>	ACK
		oiw2 expiry	
	ACM ←		
	CPG(alerting)	<b>←</b>	180 Ringing
	ANM ←	<b>←</b>	200 OK INVITE
		<b>→</b>	ACK
	REL →	<b>→</b>	BYE
	RLC ←	<b>←</b>	200 OK BYE
1	I \ L \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	LOUGHL

TP303056	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.3.1.1		
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM mes	ssage		
SIP selection	PICS 1/2 AND PICS 1/9 AND PICS 3/1 AND	PICS 4/24		
criteria:				
ISUP selection	NOT PICS 4/9			
criteria:	E distribution of the control of the	( ) ( ) ( T ) (		
Test purpose:	Ensure that the SUT in Idle state, on receipt of	f an IAM message. after the expiry of Tolw1:		
	Sends the ACM message with the C     Called party's category indicator s	<ul> <li>Sends the INVITE message to called user.</li> <li>Sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber</li> </ul>		
	(01)" or "payphone (10)", the interworking indicator set to "no interworking encountered (0)", the ISUP indicator set to "ISDN user part/BICC used all the way (0)", the ISDN access indicator set to "terminating access ISDN ".(1)			
SIP Parameter				
values:	1 014 0D0 : 1 1 (00)			
ISUP Parameter values:	ACM, CPS indicator: no indication (00)	tion(00) or ordinary subscriber (01) or payphone		
values:	(10)	lion(00) of ordinary subscriber (01) of payprione		
	interworking indicator: no interworking en	countered (0)		
		ISUP indicator: ISDN user part/BICC used all the way (0)		
	ISDN access indicator: terminating access	ISDN (1)		
	ISUP	SUT SIP		
	IAM →			
	SAM →			
	SAM →			
		1 expiry		
	ACM ←	→ INVITE		
	CPG(alerting)	← 180 Ringing		
	ANM ←	<ul><li>← 200 OK INVITE</li><li>→ ACK</li></ul>		
	REL →	→ BYE		
	RLC ←	<b>←</b> 200 OK BYE		

TP303057	SIP reference: RFC 3261 [6]	ITU-T	UP reference: Rec Q.1912.5 [1],
		clauses	s 7.1, 1) c) and 7.3.1
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM me	essage	
SIP selection	PICS 1/2 AND PICS 3/1 AND PICS 4/24		
criteria:			
ISUP selection	NOT PICS 4/9		
criteria:			
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message the SUT sends out an INVITE, on receipt of a 180 Ringing message:     Sends the ACM message with the CPS indicator set to "subscriber free (01)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "no interworking encountered" (0), the ISUP indicator set to "ISDN user part/BICC used all the way (0)", the ISDN access indicator set to "terminating access ISDN".(1).		
SIP Parameter values:			
ISUP Parameter	ACM, CPS indicator: subscriber free (01)		
values:	Called party's category indicator: no indica	tion(00) or ordinary	subscriber (01) or payphone
	(10)	. ,	· / · · · · ·
	interworking indicator: no interworking en		
	ISUP indicator: ISDN user part/BICC used		
	ISDN access indicator: terminating access ISDN (1)		
		SUT	SIP
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	180 Ringing
	ANM ←	<del>(</del>	200 OK INVITE
		<b>→</b>	ACK
	REL →	<b>→</b>	BYE
	RLC ←	<b>+</b>	200 OK BYE

# 6.2.2.4 Sending of the CPG message

TP304001	SIP reference: RFC 3261 [6]	ISUP reference:		
		ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.3.1		
TSS reference:	ISUP-SIP /Basic call/ Sending of the CPG me	ssage		
SIP selection	PICS 3/1			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT, having sent a ACM mes	sage with called party status "no indication" on		
	receipt of a 180 Ringing message:			
	Sends the CPG message with the w	<ul> <li>Sends the CPG message with the with the event indicator set to "Alerting".</li> </ul>		
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	ISUP SUT	SIP		
	IAM →	→ INVITE		
		expiry		
	ACM ←	1 - 4		
	CPG +	← 180 Ringing		
	010	Too ranging		

TP304002	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.3.1
TSS reference:	ISUP-SIP /Basic call/ Sending of the CPG me	essage
SIP selection	PICS 3/1	
criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, having sent a ACM mereceipt of a 183 Session progress message:  • No BICC/ISUP message is sent back.	ssage with called party status "no indication" on kward.
SIP Parameter values:		
ISUP Parameter		
values:		
Comments:	ISUP SU	SIP
	IAM →	→ INVITE
	T <sub>oiv</sub>	<sub>v1</sub> expiry
	ACM ←	
		← 183 Session progress

## 6.2.2.5 Sending of the ANM message

TP305001	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.5	
TSS reference:	ISUP-SIP/Basic call/ Sending of the Answer M	lessage (ANM)/	
SIP selection			
criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT having sent the ACM message, on receipt of a 200 OK INVITE for this call, it shall stop timer T <sub>oiw2</sub> (if running):  • Send ANM as determined by BICC/ISUP procedures.  • Stop any existing awaiting answer indication (e.g. ringing tone).		
SIP Parameter values:	200 OK INVITE;		
ISUP Parameter	ANM;		
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	ACM ←	← 180 Ringing	
	ANM ←	← 200 OK INVITE	

# 6.2.2.6 Sending of the CON message

TP306001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.5 and 7.5.1		
TSS reference:	ISUP-SIP/Basic call/ Sending of the Connect	Message (CON)/		
SIP selection criteria:	PICS 1/1			
ISUP selection criteria:				
Test purpose:	Send CON as determined by BICC/I Stop any existing awaiting answer indication in Interworking indicator: interworking ISUP indicator: ISUP not used all the ISDN access indicator: terminating indicator:	that the SUT, having not sent the ACM message, on receipt of a 200 OK INVITE call, it shall stop timer T <sub>oiw2</sub> (if running):  Send CON as determined by BICC/ISUP procedures.  By existing awaiting answer indication (e.g. ringing tone) BCI encoded as follows:  Interworking indicator: interworking encountered  ISUP indicator: ISUP not used all the way  ISDN access indicator: terminating access non-ISDN		
	CPS indicator. No indication	CPS indicator: no indication		
SIP Parameter values:	200 OK INVITE;			
ISUP Parameter values:	CON; Interworking indicator: interworking ISUP indicator: ISUP not used all the ISDN access indicator: terminating CPS indicator: no indication	ne way		
Comments:	ISUP SUT IAM → CON ←	SIP → INVITE ← 200 OK INVITE		

TP306002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1],		
		clauses 7.5 and 7.5.1		
TSS reference:	ISUP-SIP/Basic call/ Sending of the Connect I	Message (CON)/		
SIP selection criteria:	PICS 1/2			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT, having not sent the ACM for this call, it shall stop timer T <sub>oiw2</sub> (if running	e that the SUT, having not sent the ACM message, on receipt of a 200 OK INVITE s call, it shall stop timer T <sub>oiw2</sub> (if running):		
	Send CON as determined by BICC/IS	SUP procedures.		
	Stop any existing awaiting answer indication (	top any existing awaiting answer indication (e.g. ringing tone) BCI encoded as follows:		
	interworking indicator: INT_IND_V	AL (PIXIT)		
	ISUP indicator: ISUP_IND_ID (PIXI	ISUP indicator: ISUP_IND_ID (PIXIT)		
	ISDN access indicator: ISDN_ACC	ISDN access indicator: ISDN_ACC_IND_VAL (PIXIT)		
	CPS indicator: no indication	CPS indicator: no indication		
SIP Parameter values:	200 OK INVITE;			
ISUP Parameter	CON; interworking indicator: INT_IND_V	AL (PIXIT)		
values:	ISUP indicator: ISUP_IND_ID (PIXIT)			
	ISDN access indicator: ISDN_ACC_IND_VAL (PIXIT)			
	CPS indicator: no indication			
Comments:	ISUP SUT	SIP		
	IAM → ←	→ INVITE ← 200 OK INVITE		

## 6.2.2.7 Receipt of the Release message (REL)

TP307001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.1, 1)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release n	
SIP selection criteria:		<u> </u>
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM b receipt of a REL message:              no action is required on the SIP side any are in progress.	ut before an INVITE has been sent. On other than to terminate local procedures if
SIP Parameter values:		
ISUP Parameter values:	REL: cause value: CV_ISUP (PIXIT) location: LOC_ISUP (PIXIT)	
Comments:	ISUP SUT IAM → REL → RLC ←	SIP

TP307002	SIP reference: RFC 3261 [6]		reference:	
TSS reference:	ITU-T Rec Q.1912.5 [1], clause 7.7.1, 2)  ISUP-SIP/Basic call/ Receipt of the Release message (REL)/			
SIP selection	NOT PICS 4/10	iessage (REL)/		
criteria:	NOT FICS 4/10			
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message <b>before</b> a 200 OK (any) response message has been received which establishes a confirmed dialogue:  The SUT shall hold the REL message until a SIP 200 OK INVITE response has been received.  The SUT shall send a BYE request.			
SIP Parameter				
values:				
ISUP Parameter values:				
Comments:	ISUP SUT		SIP	
Gommonto.	IAM →	<b>→</b>	INVITE	
	REL →	•		
	RLC ←			
		<b>←</b>	200 OK INVITE	
		<b>→</b>	ACK	
		<b>→</b>	BYE	
		+	200 OK BYE	

TP307003	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.7.1, 2), 3)	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection	NOT PICS 4/10		
criteria:			
ISUP selection			
criteria:			
Test purpose:	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message before a 200 OK SIP response message has been received:</li> <li>The SUT shall hold the REL message. A CANCEL is sent when any SIP response was been received.</li> <li>On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent.</li> </ul>		
SIP Parameter values:			
ISUP Parameter			
values:			
Comments:	ISUP SU		
	IAM →	→ INVITE	
	REL →	← 100 TRYING	
	REL →		
	INCO CONTRACTOR OF THE PROPERTY OF THE PROPERT	→ CANCEL	
		€ 200 OK INVITE	
		→ ACK	
		€ 200 OK CANCEL	
		→ BYE	
		← 200 OK BYE	

TP307004	SIP reference: RFC 3261 [6]		P reference: 2.5 [1], clause 7.7.1, 2), 3)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release		
SIP selection	NOT PICS 4/10	<b>-</b>	
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM is sending an INVITE message. On receipt of a the message defined as SIP_MESSAGE_VA  The SUT shall hold the REL message been received.  The SUT shall send a CANCEL or E	REL message <b>befo</b> has been establish ge until a <b>SIP_MES</b>	ore an early dialogue with ed:
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT		SIP
	IAM →	<b>→</b>	INVITE
	REL →		
	RLC ←	_	
	CASE A	<b>←</b>	SIP_MESSAGE_VA
	CASE A	<b>→</b>	CANCEL
		<del>-</del>	200 OK CANCEL
		÷	487 Request terminated
		<b>→</b>	ACK
	CASE B		
		<b>→</b>	BYE
		<b>←</b>	200 OK BYE
		<b>←</b> →	487 Request terminated ACK

TP307005	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.1, 4)	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection		- mesosge (* 1 <u>– 1</u> )	
criteria:			
ISUP selection	NOT PICS 4/10		
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message after a 200 OK response message has been received:  • The SUT shall hold the REL message until an ACK has been sent.  • The SUT shall send a BYE request.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT	T SIP	
	IAM →	→ INVITE	
	ACM ←	€ 180 Ringing	
	ANM ← REL →	← 200 OK INVITE	
	RLC +	→ ACK	
		→ BYE	
		<b>←</b> 200 OK BYE	

TP307006	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.7.1, 3)	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection	NOT PICS 4/10		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM v		
	sending an INVITE message. On receipt of a		
	the SIP message defined with the SIP_MESS	SAGE_VA has been established:	
	The SUT shall send a CANCEL or E	BYE request.	
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT	SIP	
Comments.	IAM →	→ INVITE	
	I/AWI 2	SIP_MESSAGE_VA	
		511 _111265/(6E_V//	
	REL →		
	RLC ←		
	CASE A		
		→ CANCEL	
		← 200 OK CANCEL	
		← 487 Request	
	terminated		
		→ ACK	
	CASE B	DVE	
		BYE	
		← 200 OK BYE ← 487 Request terminated	
		<ul><li>← 487 Request terminated</li><li>→ ACK</li></ul>	
		7 AUN	

Table 16

	Values for test purposes TP307004; TP307006		
VA SIP MESSAGE_VA			
VA_1	180 Ringing		
VA_2	181 Call Is Being Forwarded		
VA_3	182 Queued		
VA_4	183 Session Progress		

TP307007	SIP reference: RFC 3261 [6]	ISUP reference:
T00(		ITU-T Rec Q.1912.5 [1], clause 7.7.1, 2), 4)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release r	nessage (REL)/
SIP selection criteria:	PICS 4/10	
ISUP selection		
criteria:		
Test purpose:	<ul><li>been received.</li><li>The SUT shall send a BYE request.</li></ul>	message <b>before</b> a 200 OK response (any)
SIP Parameter values:	cause value: CV_SIP (PIXIT)	
ISUP Parameter values:	REL: cause value: CV_ISUP (PIXIT) location: LOC_ISUP (PIXIT)	
Comments:	ISUP SUT	SIP
	IAM →	→ INVITE
	REL →	
	RLC ←	
		← 200 OK INVITE
		→ ACK
		→ BYE
		← 200 OK BYE

TP307008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.1, 2), 3	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection	PICS 4/10	• (	
criteria:			
ISUP selection			
criteria:			
Test purpose:	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message before a 200 OK response message has been received:         <ul> <li>The SUT shall hold the REL message. A CANCEL is sent when any SIP response was been received.</li> </ul> </li> <li>On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent. The cause Value Indicator parameter defined as CV_ISUP shall be mapped to the Reason header field defined as CV_SIP.</li> </ul>		
SIP Parameter values:	BYE: cause value: CV_SIP (PIXIT)		
ISUP Parameter	REL: cause value: CV_ISUP (PIXIT)		
values:	location: LOC_ISUP (PIXIT)		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 100 TRYING	
	REL →		
	RLC ←	→ CANCEL	
		€ 200 OK INVITE	
		→ ACK	
		→ BYE	
		<b>←</b> 200 OK BYE	

TP307009	SIP reference: RFC 3261 [6]		P reference: 12.5 [1], clause 7.7.1, 3)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection	PICS 4/10		
criteria:			
ISUP selection			
criteria:			
Test purpose:	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message before an early dialogue with the message defined as SIP_MESSAGE has been established:</li> <li>The SUT shall hold the REL message until a SIP_MESSAGE_VA response has been received.</li> <li>The SUT shall send a CANCEL request or a BYE request. The cause Value Indicator parameter defined as CV_ISUP shall be mapped to the Reason header field defined as CV_SIP.</li> </ul>		
OID D	CANCEL CV OID (DIVIT)		
SIP Parameter values:	CANCEL: cause value: CV_SIP (PIXIT)		
ISUP Parameter	REL: cause value: CV_ISUP (PIXIT)		
values:	location: LOC_ISUP (PIXIT)		
Comments:	ISUP SUT		SIP
	IAM → REL → RLC ←	<b>→</b>	INVITE
		<b>←</b>	SIP_MESSAGE_VA
	CASE A		
		<b>→</b>	CANCEL
		<b>←</b>	200 OK CANCEL
	terminated	~	487 Request
	tominated	<b>→</b>	ACK
	CASE B	-	
		<b>→</b>	BYE
		<b>←</b>	200 OK BYE
		<b>←</b>	487 Request
	terminated	<b>→</b>	ACK

TP307010	SIP reference: RFC 3261 [6]		reference: 2.5 [1], clause 7.7.1, 3)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release n		2.5 [1], Clause 7.7.1, 5)
SIP selection	PICS 4/10	lessage (NEL)/	
criteria:	1 103 4/10		
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message after a 200 OK response message has been received:  • The SUT shall send a BYE request after the ACK has been sent. The cause Value Indicator parameter defined as CV_ISUP shall be mapped to the Reason header field defined as CV_SIP.		
SIP Parameter values:	BYE: cause value: CV_SIP (PIXIT)		
ISUP Parameter	REL: cause value: CV_ISUP (PIXIT)		
values:	location: LOC_ISUP (PIXIT)		
Comments:	ISUP SUT		SIP
	IAM →	<b>→</b>	INVITE
	ACM ←	<del>(</del>	180 Ringing
	ANM ←	<b>←</b>	200 OK INVITE
	REL → RLC ←	<b>→</b>	ACK
		<b>→</b>	BYE 200 OK BYE

TP307011	SIP reference: RFC 3261 [6]	ISU	P reference:
		ITU-T Rec Q.1	912.5 [1], clause 7.7.1
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release n	nessage (REL)/	
SIP selection	PICS 4/10		
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:  The SUT shall send a CANCEL or BYE request. The cause Value Indicator parameter defined as CV_ISUP shall be mapped to the Reason header field defined as CV_SIP.		
SIP Parameter values:	CANCEL: cause value: CV_SIP (PIXIT)		
ISUP Parameter values:	REL: cause value: CV_ISUP (PIXIT) location: LOC_ISUP (PIXIT)		
Comments:	ISUP SUT		SIP
	IAM →	<b>→</b>	INVITE
	DEI .	<b>←</b>	SIP_MESSAGE_VA
	REL →		
	1.120		
	Case A	<b>→</b>	CANCEL
		<del>7</del>	200 OK CANCEL
		<del>-</del>	487 Request
	terminated	~	401 Nequesi
	Terrimated	<b>→</b>	ACK
	Case B	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		<b>→</b>	BYE
		÷	200 OK BYE
		<u>+</u>	487 Request
	terminated		- 4
		<b>→</b>	ACK

Table 17

	Values for test purpose TP307009; TP307011		
VA	VA SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	181 Call Is Being Forwarded		
VA_3	182 Queued		
VA_4	183 Session Progress		

Table 18

Values for test purposes 307007 - 307011				
←SIP Message Reason header field CV_SIP		← REL Cause Indicators parameter CV_ISUP		
VA_1	Normal call clearing # 16	Normal call clearing # 16		
VA_2	Normal, unspecified # 31	Normal, unspecified # 31		
VA_3	Temporary failure # 41	Temporary failure # 41		
VA_4	Invalid message, unspecified # 95	Invalid message, unspecified # 95		
VA_5	Recovery on timer expiry # 102	Recovery on timer expiry # 102		
VA_6	Protocol error, unspecified # 111	Protocol error, unspecified # 111		

Table 19: Mapping of Cause Indicators parameter into SIP Reason header fields

Cause indications parameter field	Value of parameter field	component of SIP Reason header field	Component value
-	-	Protocol	"ITU-T Rec Q.850 [5]"
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 ITU-T Rec Q.850 [5] (see note 2)

NOTE 1: "XX" is the Cause Value as defined in ITU-T Rec Q.850 [5].

NOTE 2: Due to the fact that the Cause Indications parameter does not include the definition text as defined in Table1/ITU-T Rec Q.850 [5] this is based on provisioning in the O-IWU.

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

TP308001	SIP reference:	RFC 3261 [6]	ISUP reference:	
			ITU-T Rec Q.1912.5 [1], clause 7.7.2	
TSS reference:	ISUP-SIP /Basic call/ S	Sending of the Release	message (REL)/	
SIP selection criteria:	NOT PICS 4/11			
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 where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is <b>not</b> included:  • sends a REL message with the <b>Cause value</b> Value No. 16 ("normal clearing").			
SIP Parameter values:				
ISUP Parameter values:	REL; Cause value "No	rmal call clearing"		
Comments:	ISUP IAM ACM ANM REL	SUT  Convers	SIP	
	RLC	<b>→</b>	→ 200 OK BYE	

TP308004	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.2	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	se message (REL)/	
SIP selection criteria:	PICS 4/11		
ISUP selection criteria:			
Test purpose:	of a BYE message where a Reason header included:	sends out a INVITE message and on receipt field with ITU-T Rec Q.850 [5] Cause Value is a Value is in the Reason header filed mapped he ISUP REL.	
SIP Parameter values:	BYE cause value: CV_SIP (PIXIT)		
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)		
Comments:	ISUP SUT  IAM →  ACM ←  ANM ←  Conveing  REL ←  RLC →	SIP	

Table 20: Mapping of SIP Reason header fields into Cause Indicators parameter

component of SIP Reason header field	Component value	BICC/ISUP Parameter / field	value
Protocol	"ITU-T Rec Q.850 [5]"	Cause Indication parameter	-
protocol-cause	"cause = XX" (see note)	Cause Value	"XX" (see note)
-	-	Location	"network beyond
			interworking point"
NOTE: "XX" is the Cause Value as defined in ITU-T Rec Q.850 [5].			

TP308007	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.7.6	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	message (REL)/	
SIP selection	NOT PICS 4/11		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM se		
	a Failure message (4xx, 5xx, 6xx) where a Re		
	Cause Value is <b>not</b> included defined as SIP_Failure_VA:		
	sends a REL message with the Cause value set to CV_ISUP.		
SIP Parameter			
values:			
ISUP Parameter	REL; cause value: CV_ISUP		
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	REL ←	← SIP_Failure_VA	
	RLC →	→ ACK	

Table 21

	Values for test purpose TP308007.			
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		

TP308008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.6	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	message (REL)/	
SIP selection criteria:	NOT PICS 4/12		
ISUP selection criteria:			
Test purpose:	Ensure that the SUT if the SIP Failure response is interworked to ISUP after receiving an IAM message sends out an INVITE message. On receipt of a Failure message (4xx, 5xx, 6xx) where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is <b>not</b> included defined as SIP_Failure_VA:  • sends a REL message with the Cause value set to CV_ ISUP.		
SIP Parameter values:			
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)		
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	REL ←	← SIP_Failure_VA	
	RLC →	→ ACK	

Table 22

	Values for test purposes TP308008		
VA	←REL (Cause Value) CV_ ISUP	←4XX/5XX/6XX SIP message SIP_Failure_VA	
VA_01	127 Interworking	401 Unauthorised	
VA_02	127 Interworking	407 Proxy authentication required	
VA_03	127 Interworking	413 Request Entity too long	
VA_04	127 Interworking	414 Request-uri too long	
VA_05	127 Interworking	415 Unsupported Media type	
VA_06	127 Interworking	416 Unsupported URI scheme	
VA_07	127 Interworking	420 Bad Extension	
VA_08	127 Interworking	421 Extension required	
VA_09	28 Invalid Number format	484 Address Incomplete	
VA_10	127 Interworking	503 Service Unavailable	
VA_11	127 Interworking	505 Version not supported	
VA_12	127 Interworking	513 Message too large	
VA_13	127 Interworking	580 Precondition failure	

TP308009	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.7.6	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	message (REL)/	
SIP selection criteria:	NOT PICS 4/12		
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) where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is <b>not</b> included defined as SIP_Failure_VA:  No action is taken on the ISUP.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← SIP_Failure_VA	
		→ ACK	
	Further SIP procedu	res apply	

Table 23

VA	←4XX/5XX/6XX SIP message SIP_Failure_VA
VA_01	401 Unauthorised
VA_02	407 Proxy authentication required
VA_03	413 Request Entity too long
VA_04	414 Request-uri too long
VA_05	415 Unsupported Media type
VA_06	416 Unsupported URI scheme
VA_07	420 Bad Extension
VA_08	421 Extension required
VA_09	484 Address Incomplete
VA_10	503 Service Unavailable
VA_11	505 Version not supported
VA_12	513 Message too large
VA_13	580 Precondition failure

TP308010	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.6		
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release message (REL)/			
SIP selection criteria:	NOT PICS 4/11			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message, on receipt of a Failure message 487 Request terminated where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is not included:  • No action is taken on the ISUP if a CANCEL request was previously sent before answer to an INVITE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	ISUP SUT IAM →  REL → RLC ←	SIP → INVITE ← 100 TRYING → CANCEL ← 200 OK CANCEL		
		<ul><li>← 487 Request terminated</li><li>→ ACK</li></ul>		

TP308011	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clause 7.7.6	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	message (REL)/	
SIP selection	NOT PICS 4/11		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM s	sends out an INVITE message, on receipt of a	
	Failure message 491 Request Pending whe	re a Reason header field with	
	ITU-T Rec Q.850 [5] Cause Value is <b>not</b> included:		
	No action is taken on the ISUP.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 491 Request Pending	
		→ ACK	

TP308013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.6		
TSS reference:	ISUP-SIP /Basic call/ Sending of the Rele	ase message (REL)/		
SIP selection criteria:	NOT PICS 4/11			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message, a SIP message defined as SIP MESSAGE_VA has been received, on receipt of a Failure message (4xx, 5xx, 6xx) defined as SIP_Failure_VA where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is not included:  • sends a REL message with the Cause value set to CV_ ISUP.			
SIP Parameter values:				
ISUP Parameter values:	REL; cause value: CV_ISUP			
Comments:	ISUP SU	JT SIP  → INVITE  ← SIP MESSAGE_VA		
	REL ← RLC →	<ul><li>← SIP_Failure_VA</li><li>→ ACK</li></ul>		

Table 24

	Values for test purpose TP308013			
VA	VA SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	VA_2 181 Call Is Being Forwarded			
VA_3	182 Queued			
VA_4	183 Session Progress			

Table 25

	Values for test purposes TP308013 and TP308017			
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	No mapping.	491 Request Pending		
VA_18	127 Interworking	493 Undecipherable		
VA_19	127 Interworking	500 Server Internal error		
VA_20	127 Interworking	501 Not implemented		
VA_21	127 Interworking	502 Bad Gateway		
VA_22	127 Interworking	504 Server timeout		
VA_23	17 User busy	600 Busy Everywhere		
VA_24	21 Call rejected	603 Decline		
VA_25	1 Unallocated number	604 Does not exist anywhere		
VA_26	127 Interworking	606 Not acceptable		

TP308014	SIP refere	nce: RFC 3261 [6]		IS	SUP reference:
				ITU-T Rec	Q.1912.5 [1], clause 7.7.6
TSS reference:	ISUP-SIP /Basic c	all/ Sending of the	Release	message (REL)	/
SIP selection	NOT PICS 4/11				
criteria:					
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 where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is not included:  • sends a REL message with the Cause value CV_ ISUP.				
SIP Parameter values:					
ISUP Parameter	REL; cause value	: CV_ISUP			
values:					
Comments:	ISUP		SUT		SIP
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	180 Ringing
	REL	<b>←</b>		<b>←</b>	SIP_Failure_VA
	RLC	<b>→</b>		<b>→</b>	ACK

Table 26

	Values for test purposes TP308014				
VA	←REL (Cause Value) ←4XX/5XX/6XX SIP m CV_ISUP 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			

TP308017	SIP referenc	e: RFC 3261 [6]	ISUP reference:	770	
			ITU-T Rec Q.1912.5 [1], clause	; 7.7.6	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release message (REL)/				
SIP selection	PICS 4/10				
criteria:					
ISUP selection					
criteria:					
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message, a SIP message defined as SIP_MESSAGE_VA has been received on receipt of a Failure message (4xx, 5xx, 6xx) defined as SIP_Failure_VA where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is included:  • sends a REL message. The Cause Value in the header field set to CV_SIP is mapped to the ISUP Cause Value field in the ISUP REL message with the Cause value set to CV_ ISUP.				
SIP Parameter values:	CV_ SIP (PIXIT)				
ISUP Parameter	CV_ ISUP (PIXIT)				
values:					
Comments:	ISUP	SUT	SIP		
	IAM	<b>→</b>	→ INVITE		
			★ SIP MESSAGE	_	
	REL	<b>←</b>	★ SIP_Failure_V	/A	
	RLC	<b>→</b>	→ ACK		

Table 27

	Values for test purpose TP308017			
VA	VA SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	181 Call Is Being Forwarded			
VA_3	182 Queued			
VA 4	183 Session Progress			

TP308018	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.6		
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	message (REL)/		
SIP selection criteria:	NOT PICS 4/17			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message. On receipt of a response message (3xx) defined as SIP_Response_VA, the SUT:  • sends a REL message with the Cause value CV_ ISUP.			
SIP Parameter values:				
ISUP Parameter values:	REL; cause value: CV_ISUP			
Comments:	ISUP SUT	SIP		
	IAM →	→ INVITE		
	REL ← RLC →	★ SIP_Response_VA → ACK		

#### Table 28

Values for test purposes TP308018				
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		

TP308019	SIP reference: RFC 3261 [6]		UP reference: 0.1912.5 [1], clause 7.7.6
TSS reference:	ISUP-SIP /Basic call/ Sending of the	Release message (REL)/	,
SIP selection	PICS 4/17		
criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving that response message (3xx) defined as     sends an INVITE using the NSIP_Response_VA in the R	s SIP_Response_VA, the value of the Contact head	e SUT:
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:		SUT	SIP
	IAM →	<b>→</b>	INVITE
		<del>(</del>	SIP_Response_VA
		<b>→</b>	ACK
		<b>→</b>	INVITE
	ACM ←	<del></del>	180 Ringing
	ANM ←	÷	200 OK INVITE
	/ II VIVI	<b>→</b>	ACK
		Conversation	,
	REL →	<b>→</b>	BYE
	RLC <b>←</b>	+	200 OK BYE

Table 29

	Values for test purpose TP308019			
VA SIP_Response_VA				
VA_1	300 Multiple Choices			
VA_2	301 Moved Permanently			
VA_3	302 Move Temporarily			
VA_4	305 Use Proxy			
VA_5	380 Alternative Service			

#### 6.2.2.9 Autonomous release at O-IWU

TP308020	SIP refere	nce: RFC 3261 [6]		SUP reference: Q.1912.5 [1], clause 7.7.3
TSS reference:	ISUP-SIP /Basic c	all/ Sending of the Release	message (REL).	/
SIP selection criteria:	NOT PICS 4/10			
ISUP selection criteria:				
Test purpose:	Ensure that the SUT after receiving the IAM the BICC/ISUP procedures results in autonomous REL message from the SUT:  • then a BYE shall be sent on the SIP side.			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	ISUP IAM ACM ANM	SUT  +  +  +	<b>→</b> <b>←</b>	SIP INVITE 180 Ringing 200 OK INVITE
		Autonomous release	at O-IWU	
	REL RLC	<b>←</b> →	<b>→</b>	BYE 200 OK BYE

TP308021	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.3	
TSS reference:	ISUP-SIP /Basic call/ Sending of the Release	message (REL)/	
SIP selection criteria:	PICS 4/10		
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM the BICC/ISUP procedures results in autonomous REL message from the SUT:     then a BYE shall be sent on the SIP side. The Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value of the REL message has to be on sent by the SIP side.		
SIP Parameter values:	BYE cause value: CV_SIP (PIXIT)		
ISUP Parameter values:	REL; cause value: CV_ISUP (PIXIT)		
Comments:	ISUP SUT IAM → ACM ← ANM ← Autonomous release	SIP	
	RLC →	→ BYE ← 200 OK BYE	

TP308022	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.6.1
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/	
SIP selection	PICS 3/2	1000ago (1122)/
criteria:	1.100 3/2	
ISUP selection		
criteria:		
Test purpose:	Ensure that the SUT a On receipt of a 484 Address Incomplete response for the current INVITE (i.e. there are no other pending INVITE transactions for this call), if the SUT is configured to propagate overlap signalling into the SIP network, the SUT:	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT IAM →	SIP → INVITE ← 484 Address incomplete → ACK
	Start timer T <sub>oi</sub>	w3
	Timeout T <sub>oiw</sub>	3
	REL ← RLC →	

TP308023	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.6.1	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release r		
SIP selection	NOT PICS 3/4	nessage (REL)/	
criteria:	100 3/4		
ISUP selection criteria:			
Test purpose:	Ensure that the SUT a On receipt of a 484 Address Incomplete response for the current INVITE (i.e. there are no other pending INVITE transactions for this call), if the O-IWU is not configured to propagate overlap signalling into the SIP network then the timer shall not be started and the:  • REL shall be sent immediately to the BICC/ISUP network.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		<ul><li>← 484 Address incomplete</li><li>→ ACK</li></ul>	
	REL <b>←</b>	7 ACK	
	RLC →		

TP308024	SIP reference: RFC 3261 [6]		P reference: 912.5 [1], clause 7.7.3
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection criteria:	PICS 4/5 AND PICS 4/15		
ISUP selection criteria:	PICS 4/2		
Test purpose:	<ul> <li>Ensure that the SUT a on receipt of a COT "failed" and preconditions used, the SUT:</li> <li>sends a CANCEL or BYE to the SIP network.</li> </ul>		
SIP Parameter values:			
ISUP Parameter values:	IAM: Nature of connection indicators "continuity check required on this circuit"		
Comments:	ISUP SUT →	<b>→</b>	SIP INVITE
	COT(failed) →		
	CASE A	<b>→</b> ← ←	CANCEL 200 OK CANCEL 487 Request
	terminated	<b>→</b>	ACK
	CASE B	→ ← ← →	BYE 200 OK BYE 487 Request terminated ACK

TP308025	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.3	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection criteria:	PICS 4/5 AND PICS 4/15		
ISUP selection criteria:	PICS 4/2		
Test purpose:	Ensure that the SUT when the ISUP/BICC timer T8 is expired and preconditions used, the SUT:  • sends a CANCEL or BYE to the SIP network.		
SIP Parameter values:			
ISUP Parameter values:	IAM: Nature of connection indicators "c	continuity check required on this circuit"	
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	T8 expire	ees	
	CASE A	→ CANCEL	
		<ul><li>← 200 OK CANCEL</li><li>← 487 Request</li></ul>	
	terminated	→ ACK	
	CASE B		
		→ BYE ← 200 OK BYE ← 487 Request terminated → ACK	

TP308026	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.3	
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/		
SIP selection	PICS 4/5 AND PICS 4/15		
criteria:			
ISUP selection	PICS 4/2		
criteria:			
Test purpose:	Ensure that the SUT when the internal resou	rce reservation is unsuccessful and	
	preconditions used, the SUT:		
		No attende	
	sends a CANCEL or BYE to the SIF	network.	
SIP Parameter			
values:			
ISUP Parameter	IAM: Nature of connection indicators "co	ontinuity check required on this circuit"	
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
		← 183 Session Progress → PRACK	
		◆ 200 OK PRACK	
		200 OKT NACK	
	Internal resource reservation unsuccessful		
	CASE A		
	CASE A	→ CANCEL	
		€ 200 OK CANCEL	
		← 487 Request terminated	
		→ ACK	
	CASE B		
		→ BYE	
		← 200 OK BYE	
		487 Request terminated	
		→ ACK	

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

TP309001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 1), 7.7.4 and 7.7.5
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset 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 SUT	SIP
	IAM →	
	RSC →	
	RLC +	

TP309002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1,	
		7.7.4 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit r	message (RSC), Circuit group reset message	
	(GRS) or Circuit group blocking message (CG	GB) with the indication hardware failure	
	oriented		
SIP selection			
criteria:			
ISUP selection criteria:			
Test purpose:	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt RSC message before a SIP MESSAGE_VA response message has been received:</li> <li>The SUT shall hold the RSC message until a SIP response has been received.</li> <li>The SUT shall send a CANCEL request.</li> <li>Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.</li> </ul>		
SIP Parameter values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT	SIP	
	IAM →	→ INVITE	
	RSC →		
	RLC		
		SIP MESSAGE_VA	
		→ CANCEL	
		€ 200 OK CANCEL	
		<ul><li>← 487 Request terminated</li><li>→ ACK</li></ul>	
		→ ACK	

Table 30

	Values for test purpose TP309002		
VA	VA SIP MESSAGE_VA		
VA_1	100 Trying		
VA_2	180 Ringing		
VA_3	181 Call Is Being Forwarded		
VA_4	182 Queued		
VA 5	183 Session Progress		

TP309003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 7.7.4 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	<ul> <li>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:         <ul> <li>On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent.</li> </ul> </li> <li>Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.</li> </ul>		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → RSC → RLC ←	SIP	

TP309005	SIP reference: RFC 3261 [6]	ITU-T Rec Q.191	reference: 2.5 [1], clauses 7.7.1, and 7.7.5
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit r (GRS) or Circuit group blocking message (CG oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message with the complete called party number, sending a BYE message on receipt RSC message after a 200 OK response message has been received:         <ul> <li>The SUT shall send a BYE request.</li> </ul> </li> <li>Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.</li> </ul>		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP IAM ACM ANM  RSC RLC  SUT  SUT  FUNCTION SUT  FUNCTION SUT  SUT  FUNCTION SUT  SUT  FUNCTION SUT  SUT  SUT  SUT  SUT  SUT  SUT  SUT	→ ← ←	SIP INVITE 180 Ringing 200 OK INVITE BYE 200 OK BYE

TP309006	SIP reference: RFC 3261 [6]	ISUP reference:	
		ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 7.7.4 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt RSC message after an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established:  The SUT shall send a CANCEL or BYE request.  Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM →  RSC → RLC ←	SIP → INVITE ← SIP_MESSAGE_VA	
	Case A  Case B	→ CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK → BYE ← 200 OK BYE ← 487 Request terminated → ACK	

Table 31

Values for test purpose; TP309106			
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	181 Call Is Being Forwarded		
VA_3	182 Queued		
VA 4	183 Session Progress		

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

TP309007	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 1),	
		7.7 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message		
	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure		
	oriented		
SIP selection			
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM but before an INVITE has been sent on receipt of GRS message:              No action is required on the SIP side other than to terminate local procedures if any are in progress.		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	ISUP SUT	SIP	
	IAM →		
	GRS →		
	GRA <b>←</b>		

TP309008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 7.7.4 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt GRS message before SIP MESSAGE_VA response message has been received:</li> <li>The SUT shall hold the GRS message until a SIP response has been received.</li> <li>The SUT shall send a CANCEL request.</li> <li>Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.</li> </ul>		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → GRS → GRA ←	SIP → INVITE	
	J	<ul> <li>← SIP MESSAGE_VA</li> <li>→ CANCEL</li> <li>← 200 OK CANCEL</li> <li>← 487 Request terminated</li> <li>→ ACK</li> </ul>	

Table 32

Values for test purpose TP309008			
VA	SIP MESSAGE_VA		
VA_1	100 Trying		
VA_2	180 Ringing		
VA_3	181 Call Is Being Forwarded		
VA_4	182 Queued		
VA_5	183 Session Progress		

TP309009	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 3), 7.7.4 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
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.  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 SUT IAM → GRS → GRA ←	SIP	

TP309011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 7.7.4 and 7.7.5	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message with the complete called party number, sending a BYE message on receipt GRS message after a 200 OK response message has been received:  The SUT shall send a BYE request.  Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → ACM ← ANM ← GRS → GRA	SIP → INVITE ← 180 Ringing ← 200 OK INVITE  → BYE ← 200 OK BYE	

TP309012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 7.7.4 and 7.7.5		
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented			
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	sending a INVITE message on receipt GRS m message defined with the SIP_MESSAGE_V/  • The SUT shall send a CANCEL requ  • Depending on local policy, a Reason	Depending on local policy, a Reason header field containing the     (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be		
SIP Parameter				
values:				
ISUP Parameter values:				
Comments:	ISUP SUT IAM →  GRS → GRA ←	SIP → INVITE ← SIP_MESSAGE_VA		
	CASE A	→ CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK		
	CASE B	→ BYE ← 200 OK BYE ← 487 Request terminated → ACK		

Table 33

Values for test purpose TP309009 and TP309012		
VA SIP MESSAGE_VA		
VA_1	180 Ringing	
VA_2	181 Call Is Being Forwarded	
VA_3	182 Queued	
VA 4	183 Session Progress	

SIP reference: RFC 3261 [6]	ISUP reference:
	ITU-T Rec Q.1912.5 [1], clauses 7.7.1,
	7.7.4 and 7.7.5
, , , , ,	GB) with the indication hardware failure
oriented	
Former that the OUT after the side of the state of	TO THE STATE OF TH
	essage where the hange Farameter value is
bigger than 7.	
the SLIT shall send a RYE requests	for each call association
the Got shall send a DTE requests	Tor Cacif call association.
ISUP SUT	SIP
	→ INVITE 1
	← 180 Ringing
ANM ←	← 200 OK INVITE
LANA	INDUITE O
	→ INVITE 2
	← 180 Ringing ← 200 OK INVITE
ANW	200 OK INVITE
GRS →	→ BYE 1
	€ 200 OK BYE
	→ BYE 2
	€ 200 OK BYE
	ISUP-SIP/Basic call/ Receipt of Reset circuit (GRS) or Circuit group blocking message (Cooriented  Ensure that the SUT after receiving more that each call association on receipt of a GRS messigger than "1":  • the SUT shall send a BYE requests

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

TP309014	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 1) and 7.7.4	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM but before an INVITE has been sent on receipt of CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented":      No action is required on the SIP side other than to terminate local procedures if any are in progress.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → CGB → CGBA ←	SIP	

TP309015	SIP reference: RFC 3261 [6]		JP reference: 12.5 [1], clauses 7.7.1 and 7.7.4
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Ensure that the SUT after receiving the IAM sending a INVITE message on receipt CGB Type Indicator coded as "hardware failure or response message has been received:  The SUT shall hold the CGB messareceived.  The SUT shall send a CANCEL received.  Depending on local policy, a Reason (ITU-T Rec Q.850 [5]) Cause Value sent by the SIP side of the O-IWU.	message Circuit Griented" before a Sage until a SIP 200 quest.	roup Supervision Message IP MESSAGE_VA  OK response has been taining the
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → CGB → CGBA	<b>→</b>	SIP INVITE
		<b>←</b>	SIP MESSAGE_VA
		→ ← ←	CANCEL 200 OK CANCEL 487 Request terminated ACK

Table 34

Values for test purpose TP309014			
VA SIP MESSAGE_VA			
VA_1	100 Trying		
VA_2	180 Ringing		
VA_3	181 Call Is Being Forwarded		
VA_4	182 Queued		
VA 5	183 Session Progress		

TP309016	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1, 3) and 7.7.4	
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:	Type Indicator coded as "hardware failure ori has been received:  On subsequently receiving 200 OK ACK for the 200 OK INVITE and sul has been sent.  Depending on local policy, a Reaso	message Circuit Group Supervision Message lented" <b>before</b> a 200 OK response message INVITE messages, the SUT shall send an beequently send a BYE request after the ACK	
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP SUT IAM → CGB → CGBA ←	SIP	

TP309017	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.7.1 and 7.7.4	
TSS reference:		rcuit message (RSC), Circuit group reset message e (CGB) 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 with the complete called party number, sending a BYE 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.  • Depending on local policy, a Reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value # 31 may be added to the SIP message to be sent by the SIP side of the O-IWU.		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	ISUP IAM	SUT SIP  → INVITE  ← 180 Ringing  ← 200 OK INVITE  → BYE  ← 200 OK BYE	

TP309018	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], clauses 7.7.1 and 7.7.4
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit (GRS) or Circuit group blocking message (Coriented	it message (RSC), Circuit group reset message CGB) with the indication hardware failure
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Type Indicator coded as "hardware failure or message defined with the SIP_MESSAGE_v  • The SUT shall send a CANCEL rec  • Depending on local policy, a Reason	message Circuit Group Supervision Message briented" after an early dialogue with the SIP VA has been established:  quest.  on header field containing the e # 31 may be added to the SIP message to be
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT IAM →  CGB ←	SIP → INVITE ← SIP_MESSAGE_VA
	CASE A	<ul> <li>→ CANCEL</li> <li>← 200 OK CANCEL</li> <li>← 487 Request terminated</li> <li>→ ACK</li> </ul>
	CASE B	<ul> <li>→ BYE</li> <li>← 200 OK BYE</li> <li>← 487 Request terminated</li> <li>→ ACK</li> </ul>

Table 35

	Values for test purpose TP309014; TP309018			
VA SIP MESSAGE_VA				
VA_1	180 Ringing			
VA_2	181 Call Is Being Forwarded			
VA_3	182 Queued			
VA_4	183 Session Progress			

TP309019		erence: RFC 3261		ITU-T Rec Q	SUP reference: .1912.5 [1], clauses 7.7.1, .7.4 and 7.7.5
TSS reference:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented				
SIP selection criteria:					
ISUP selection criteria:					
Test purpose:	Ensure that the SUT after receiving 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" where 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:	ISUP IAM ACM ANM	<b>→</b> <b>←</b>	SUT	<b>→</b> <b>←</b>	SIP INVITE 1 180 Ringing 200 OK INVITE
	IAM ACM ANM	<b>→</b> <b>←</b>		<b>→</b> <b>←</b>	INVITE 2 180 Ringing 200 OK INVITE
	CGB CGBA	<b>→</b>		→ ← → ←	BYE 1 200 OK BYE BYE 2 200 OK BYE

# 6.3 Test purposes for the Supplementary Services

## 6.3.1 Interworking from SIP to ISUP (Outgoing Call)

### 6.3.1.1 Calling Line Identification (CLI)

TP501001	SIP reference: RFC 3261 [6]	ISUP reference:
TSS reference:	CID ICUD/CC/CLI/	6.1.3.6 [2]
SIP selection	SIP-ISUP/SS/CLI/	
criteria:	DIGO O/A AND DIGO O/O	
ISUP selection	PICS 6/1 AND PICS 6/9	
criteria:	E distribution of the control of the	
Test purpose:	<ul> <li>Ensure that the SUT in the Idle state, on receipt of a INVITE message where:</li> <li>the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received;</li> <li>the SIP From header field containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received;</li> <li>a Privacy header field has not been received.</li> <li>sends an IAM message with the Calling party number parameter coded:  Address signals = default number  Screening indicator = network provided  Number Incomplete Indicator = PIXIT  Numbering plan indicator = ISDN numbering plan  Address Presentation Restricted Indicator = Presentation allowed</li> </ul>	
CID Doromotor		
SIP Parameter values:		
ISUP Parameter		
values:		
Comments:	SIP SUT	ISUP
	INVITE →	→ IAM

Table 36

	Values for test purposes TP501001			
		SIP Parameter values:	ISUP Parameter value Address Format:	
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501002		SIP reference: RFC 3261 [6]	ISUP reference:		
			6.1.3.6 [2]		
TSS reference:	SIP-ISU	P/SS/CLI/			
SIP selection					
criteria:	DIOC O				
ISUP selection criteria:	PICS 6/	1			
Test purpose:	Ensure t	hat the SUT in the Idle state, on recei	pt of a INVITE message where:		
	•	the SIP From header field containing NDC+ SN has not been received; a Privacy header field was received	SIP P-Asserted-Identity containing a URI with an identity in the format "+" + NDC+ SN has not been received; SIP From header field containing a URI with an identity in the format "+" CC+ C+ SN has not been received; Privacy header field was received and the priv-value component is set to		
	sends a	"none".  n IAM message with the Calling party	number parameter coded:		
		Address signals = default number			
		Screening indicator = network provided			
		Number Incomplete Indicator = PIXIT			
		Numbering plan indicator = ISDN numbering plan			
		Address Presentation Restricted Indi	cator = Presentation allowed		
		NoAS: NoA_VALUE			
SIP Parameter values:					
ISUP Parameter values:					
Comments:	•	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	else set to "international number".				
	SIP INVITE	SUT →	ISUP → IAM		

Table 37

	Values for test purposes TP501002			
		SIP Parameter values:	ISUP Parameter value Address Format:	
VA_0 1	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_0 2	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501003	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/			
SIP selection criteria:				
ISUP selection criteria:	PICS 6/1	1		
Test purpose:	<ul> <li>CC+ NDC+ SN has not been received;</li> <li>the SIP From header field containing NDC+ SN has not been received;</li> </ul>	ng a URI with an identity in the format "+"  red;  a URI with an identity in the format "+" CC+  and the priv-value component is set to  r number parameter coded:  ed  mbering plan		
SIP Parameter				
values:				
ISUP Parameter values:				
Comments:	SIP SUT INVITE →	ISUP → IAM		

TP501004	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/			
SIP selection criteria:				
ISUP selection criteria:	PICS 6/1	6/1		
Test purpose:	<ul> <li>CC+ NDC+ SN has not been received;</li> <li>the SIP From header field containing NDC+ SN has not been received;</li> </ul>	ng a URI with an identity in the format "+"  red;  a URI with an identity in the format "+" CC+  and the priv-value component is set to  r number parameter coded:		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP SUT INVITE →			

TP501005	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/	0.1.3.0 [Z]		
SIP selection criteria:	on reer reerezii			
ISUP selection criteria:	PICS 6/1	6/1		
Test purpose:	<ul> <li>CC+ NDC+ SN has not been received;</li> <li>the SIP From header field containing NDC+ SN has not been received;</li> </ul>	ng a URI with an identity in the format "+"  red;  a URI with an identity in the format "+" CC+  and the priv-value component is set to "id".  r number parameter coded:  ed  mbering plan		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP SUT INVITE →	ISUP → IAM		

TP501006	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/	UP/SS/CLI/		
SIP selection criteria:				
ISUP selection criteria:	PICS 6/1 AND PICS 6/3 AND PICS 6/9	6/1 AND PICS 6/3 AND PICS 6/9		
Test purpose:	Ensure that the SUT in the Idle state, on recei	e that the SUT in the Idle state, on receipt of a INVITE message where:		
	the SIP P-Asserted-Identity containin CC+ NDC+ SN has not been received.	ng a URI with an identity in the format "+" ed;		
	<ul> <li>the SIP From header field containing NDC+ SN has been received;</li> </ul>	a URI with an identity in the format "+" CC+		
	a Privacy header field has not been	received.		
	sends an IAM message with the Calling party	number parameter coded:		
	Address signals = default number			
	Screening indicator = network provid	ed		
	Number Incomplete Indicator = PIXIT	r		
	Numbering plan indicator = ISDN numbering plan indicator = ISD	mbering plan		
	Address Presentation Restricted Indi	Address Presentation Restricted Indicator = Presentation allowed		
	NoAS: NoA_VALUE	NoAS: NoA_VALUE		
	with the Generic number parameter coded:	the Generic number parameter coded:		
	Address signals = number provided b	Address signals = number provided by the user		
	Screening indicator = user provided,	not verified		
	Number Incomplete Indicator = comp	plete		
	Numbering plan indicator = ISDN numbering plan indicator = ISD	mbering plan		
	Address Presentation Restricted Indi	cator = Presentation allowed		
	NoAS: NoA_VALUE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	else set to "international number".			
	SIP SUT INVITE →			

	Values for test purposes TP501006				
		SIP Parameter values:	ISUP Parameter value Address Format:		
VA_0 1	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN		
VA_0 2	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN		

TP501007	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/	• •		
SIP selection criteria:				
ISUP selection criteria:	PICS 6/1 AND PICS 6/3			
Test purpose:	Ensure that the SUT in the Idle state, on recei	pt of a INVITE message where:		
	CC+ NDC+ SN has not been received	the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received; the SIP From header field containing a URI with an identity in the format "+" CC+		
	NDC+ SN has been received;	·		
	a Privacy header field was received a "none".	and the priv-value component is set to		
	sends an IAM message with the Calling party	number parameter coded:		
	Address signals = default number			
	Screening indicator = network provided			
	Number Incomplete Indicator = PIXIT			
	Numbering plan indicator = ISDN numbering plan			
	Address Presentation Restricted Indi	Address Presentation Restricted Indicator = Presentation allowed		
	NoAS: NoA_VALUE			
	with the Generic number parameter coded:			
	Address signals = number provided l	by the user		
	Screening indicator = user provided,	not verified		
	Number Incomplete Indicator = comp	olete		
	Numbering plan indicator = ISDN numbering plan indicator = ISD	mbering plan		
	Address Presentation Restricted Indi	cator = Presentation allowed		
	NoAS: NoA_VALUE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP SUT INVITE →			

	Values for test purposes TP501007			
		SIP Parameter values:	ISUP Parameter value Address Format:	
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501008	SI	SIP reference: RFC 3261 [6] ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/			
SIP selection criteria:				
ISUP selection criteria:		6/1 AND PICS 6/3		
Test purpose:	Ensure	that the SUT in the Idle state, on re	eceipt of a INVITE message where:	
	•	the SIP P-Asserted-Identity conta CC+ NDC+ SN has not been rec	aining a URI with an identity in the format "+" eived;	
	•	the SIP From header field contain CC+ NDC+ SN has been receive	ning a URI with an identity in the format "+" d;	
	•	a Privacy header field was receiv "header".	red and the priv-value component is set to	
	sends a	n IAM message with the Calling p	arty number parameter coded:	
		Address signals = default numbe	r	
		Screening indicator = network pro	ovided	
		Number Incomplete Indicator = P	IXIT	
		Numbering plan indicator = ISDN numbering plan		
		Address Presentation Restricted Indicator = Presentation restricted		
		NoAS: NoA_VALUE		
	with the	h the Generic number parameter coded:		
		Address signals = number provided by the user		
		Screening indicator = user provid	ed, not verified	
		Number Incomplete Indicator = co	omplete	
		Numbering plan indicator = ISDN	numbering plan	
		Address Presentation Restricted	Indicator = Presentation restricted	
		NoAS: NoA_VALUE		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	•	If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";		
	•	else set to "international number".		
	SIP INVITE	SUT ISUP → IAM		

Values for test purposes TP501008				
		SIP Parameter values:	ISUP Parameter value Address Format:	
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501009	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/			
SIP selection criteria:				
ISUP selection	PICS 6/1 AND PICS 6/3			
criteria: Test purpose:	Ensure that the SUT in the Idle state, on rece	int of a INIVITE massage where:		
rest purpose.				
	the SIP P-Asserted-Identity containing     CC+ NDC+ SN has not been received.	ng a URI with an identity in the format "+" ed;		
	the SIP From header field containing NDC+ SN has been received;	g a URI with an identity in the format "+" CC+		
	a Privacy header field was received "user".	and the priv-value component is set to		
	sends an IAM message with the Calling part	y number parameter coded:		
	Address signals = default number			
	Screening indicator = network provide	ded		
	Number Incomplete Indicator = PIXI	Т		
	Numbering plan indicator = ISDN nu	Numbering plan indicator = ISDN numbering plan		
	Address Presentation Restricted Indicator = Presentation restricted			
	NoAS: NoA_VALUE			
	with the Generic number parameter coded:			
	Address signals = number provided	by the user		
	Screening indicator = user provided,	not verified		
	Number Incomplete Indicator = complete			
	Numbering plan indicator = ISDN numbering plan			
	Address Presentation Restricted Ind	icator = Presentation restricted		
	NoAS: NoA_VALUE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	else set to "international number".			
	SIP SUT INVITE →	ISUP → IAM		

	Values for test purposes TP501009			
SIP Parameter values: ISUP Parameter value Address Format:				
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501010	S	IP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]	
TSS reference:	SIP-ISUF	P/SS/CLI/	000 [=]	
SIP selection criteria:				
ISUP selection	PICS 6/1	AND PICS 6/3		
criteria:				
Test purpose:	Ensure th	nat the SUT in the Idle state, on rece	ipt of a INVITE message where:	
		the SIP P-Asserted-Identity containi CC+ NDC+ SN has not been recei	ng a URI with an identity in the format "+" ved;	
		the SIP From header field containing NDC+ SN has been received;	g a URI with an identity in the format "+" CC+	
		a Privacy header field was received "id".	and the priv-value component is set to	
	sends an	IAM message with the Calling part	y number parameter coded:	
		Address signals = default number		
		Screening indicator = network provide	ded	
		Number Incomplete Indicator = PIXI	Т	
		Numbering plan indicator = ISDN numbering plan		
		Address Presentation Restricted Indicator = Presentation restricted		
		NoAS: NoA_VALUE		
	with the C	Generic number parameter coded:		
		Address signals = number provided	by the user	
		Screening indicator = user provided	not verified	
		Number Incomplete Indicator = complete		
		Numbering plan indicator = ISDN numbering plan		
		Address Presentation Restricted Inc	licator = Presentation restricted	
		NoAS: NoA_VALUE		
SIP Parameter values:				
ISUP Parameter				
values: Comments:		If CC is acqual to the acquature and a	the country where I NA/I Lie leasted AND the	
Comments.		If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";		
	•	else set to "international number".		
	SIP INVITE	SUT →	ISUP → IAM	

	Values for test purposes TP501010			
		ISUP Parameter value Address		
			Format:	
	(significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501011		SIP reference: RFC 3261 [6]		reference: I.3.6 [2]	
TSS reference:	SIP-ISU	P/SS/CLI/			
SIP selection criteria:					
ISUP selection criteria:					
Test purpose:	Ensure t	hat the SUT in the Idle state, on recei	ot of a INVITE mess	age where:	
	•	the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has been received; the SIP From header field containing a URI with an identity in the format "+" CC+			
		NDC+ SN has not been received;			
	•	a Privacy header field has not been	received.		
	sends a	n IAM message with the Calling party	number paramete	r coded:	
		Address signals = number derived from	om SIP P-Asserted-I	dentity	
		Screening indicator = network provided			
		Number Incomplete Indicator = PIXIT			
		Numbering plan indicator = ISDN numbering plan			
		Address Presentation Restricted Indicator = Presentation allowed			
		NoAS: NoA_VALUE			
SIP Parameter values:					
ISUP Parameter values:					
Comments:	•	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	•	else set to "international number".			
	SIP INVITE	SUT ISUP FE → IAM			

	Values for test purposes TP501011			
SIP Parameter values: ISUP Parameter value Address Format:				
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501012		SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]	
TSS reference:	SIP-ISU	P/SS/CLI/	0.1.0.0 [2]	
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	Ensure	that the SUT in the Idle state, on recei	ot of a INVITE message where:	
	•			
	•	a Privacy header field was received a "none".	and the priv-value component is set to	
	sends a	n IAM message with the Calling party	number parameter coded:	
		Address signals = number derived from SIP P-Asserted-Identity		
		Screening indicator = network provided		
		Number Incomplete Indicator = PIXIT		
		Numbering plan indicator = ISDN numbering plan		
		Address Presentation Restricted Indicator = Presentation allowed		
		NoAS: NoA_VALUE		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	•	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>		
	•	else set to "international number".		
	SIP INVITE	SUT →	ISUP → IAM	

Values for test purposes TP501012			
		SIP Parameter values:	ISUP Parameter value Address Format
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN

TP501013	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]	
TSS reference:	SIP-ISUP/SS/CLI/	0.1.5.0 [2]	
SIP selection	011 1001 700/021/		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that the SUT in the Idle state, on recei	pt of a INVITE message where:	
	the SIP P-Asserted-Identity containing     CC+ NDC+ SN has been received;	ng a URI with an identity in the format "+"	
	<ul> <li>the SIP From header field containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received;</li> </ul>		
	<ul> <li>a Privacy header field was received and the priv-value component is set to "header".</li> </ul>		
	sends an IAM message with the Calling party number parameter coded:		
	Address signals = number derived from SIP P-Asserted-Identity		
	Screening indicator = network provided		
	Number Incomplete Indicator = PIXIT		
	Numbering plan indicator = ISDN numbering plan		
	Address Presentation Restricted Indicator = Presentation restricted		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	

TP501014	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/	oo. [=]		
SIP selection				
criteria:				
ISUP selection criteria:				
Test purpose:	Ensure that the SUT in the Idle state, on recei	pt of a INVITE message where:		
	<ul> <li>the SIP P-Asserted-Identity containing CC+ NDC+ SN has been received;</li> </ul>	ng a URI with an identity in the format "+"		
	<ul> <li>the SIP From header field containing NDC+ SN has not been received;</li> </ul>	• the SIP From header field containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received;		
	<ul> <li>a Privacy header field was received and the priv-value component is set to "user".</li> </ul>			
	ends an IAM message with the Calling party number parameter coded:			
	Address signals = number derived from SIP P-Asserted-Identity			
	Screening indicator = network provided			
	Number Incomplete Indicator = PIXIT			
	Numbering plan indicator = ISDN number	Numbering plan indicator = ISDN numbering plan		
	Address Presentation Restricted Indi	cator = Presentation restricted		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP SUT	ISUP		
	INVITE →	→ IAM		

TP501015	SIP reference: RFC 3261 [6]	ISUP reference:		
		6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/			
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT in the Idle state, on recei	pt of a INVITE message where:		
	<ul> <li>the SIP P-Asserted-Identity containing CC+ NDC+ SN has been received;</li> </ul>	ng a URI with an identity in the format "+"		
	<ul> <li>the SIP From header field containing NDC+ SN has not been received;</li> </ul>	the SIP From header field containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received;		
	a Privacy header field was received a	a Privacy header field was received and the priv-value component is set to "id".		
	nds an IAM message with the Calling party number parameter coded:			
	Address signals = number derived from	Address signals = number derived from SIP P-Asserted-Identity		
	Screening indicator = network provid	Screening indicator = network provided		
	Number Incomplete Indicator = PIXIT			
	Numbering plan indicator = ISDN numbering plan indicator = ISD	Numbering plan indicator = ISDN numbering plan		
	Address Presentation Restricted Indi	cator = Presentation restricted		
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	SIP SUT	ISUP		
	INVITE →	→ IAM		

Table 45: Void.

TP501016	SIP refere	nce: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]	
TSS reference:	SIP-ISUP/SS/CLI/		0.1.5.5 [2]	
SIP selection criteria:				
ISUP selection criteria:	PICS 6/3			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where:			
		<ul> <li>the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has been received;</li> </ul>		
		rom header field containing I has been received;	g a URI with an identity in the format "+" CC+	
	<ul> <li>a Privacy</li> </ul>	header field has not been	received.	
	sends an IAM mes	sage with the Calling part	y number parameter coded:	
	Address	signals = number derived fr	om SIP P-Asserted-Identity	
	Screening	g indicator = network provid	led	
	Number I	ncomplete Indicator = PIXI	Г	
	Numbering plan indicator = ISDN numbering plan			
	Address Presentation Restricted Indicator = Presentation allowed			
	NoAS: No	NoAS: NoA_VALUE		
	with the Generic n	umber parameter coded:		
	Address	signals = number provided	by the user	
	Screening	g indicator = user provided,	not verified	
	Number Incomplete Indicator = complete			
	Numbering plan indicator = ISDN numbering plan			
	Address	Presentation Restricted Ind	icator = Presentation allowed	
	NoAS: NoA_VALUE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";			
	else set t	o "international number".		
	SIP INVITE	SUT →	ISUP → IAM	

Table 46

	Values for test purposes TP501016				
		SIP Parameter values:	ISUP Parameter value Address Format:		
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN		
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN		

TP501017	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/	• · · · · · · · · · · · · · · · · · · ·		
SIP selection criteria:				
ISUP selection criteria:	PICS 6/3			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where:			
	the SIP P-Asserted-Identity cont CC+ NDC+ SN has been received.	aining a URI with an identity in the format "+" red;		
	<ul> <li>the SIP From header field contain NDC+ SN has been received;</li> </ul>	ning a URI with an identity in the format "+" CC+		
	a Privacy header field was receive "none".	ved and the priv-value component is set to		
	sends an IAM message with the Calling	party number parameter coded:		
	Address signals = number derive	ed from SIP P-Asserted-Identity		
	Screening indicator = network pr	ovided		
	Number Incomplete Indicator = F	PIXIT		
	Numbering plan indicator = ISDN numbering plan			
	Address Presentation Restricted Indicator = Presentation allowed			
	NoAS: NoA_VALUE			
	with the Generic number parameter coded	h the Generic number parameter coded:		
	Address signals = number provided by the user			
	Screening indicator = user provided, not verified			
	Number Incomplete Indicator = complete			
	Numbering plan indicator = ISDN	I numbering plan		
	Address Presentation Restricted	Indicator = Presentation allowed		
	NoAS: NoA_VALUE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	else set to "international number			
	SIP SUINVITE →	T ISUP → IAM		

Table 47

Values for test purposes TP501017			
		SIP Parameter values:	ISUP Parameter value Address Format:
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN

TP501018	S	SIP reference: RFC 3261 [6]	IS	SUP reference: 6.1.3.6 [2]
TSS reference:	SIP-ISUI	P/SS/CLI/		0.1.3.0 [2]
SIP selection				
criteria:	PICS 6/3	3		
criteria:	1 100 0/0	,		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where:			
	•	<ul> <li>the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has been received;</li> </ul>		
	•	the SIP From header field containin NDC+ SN has been received;	ig a URI with an io	dentity in the format "+" CC+
	•	a Privacy header field was received "header".	d and the priv-valu	ue component is set to
	sends ar	n IAM message with the Calling par	ty number parar	neter coded:
		Address signals = number derived	from SIP P-Asser	ted-Identity
		Screening indicator = network prov	ided	
		Number Incomplete Indicator = PIX	IT	
		Numbering plan indicator = ISDN n	umbering plan	
	Address Presentation Restricted Indicator = Presentation restricted			
	NoAS: NoA_VALUE			
	with the Generic number parameter coded:			
	Address signals = number provided by the user			
	Screening indicator = user provided, not verified			
	Number Incomplete Indicator = complete			
		Numbering plan indicator = ISDN n	umbering plan	
		Address Presentation Restricted In	dicator = Presenta	ation restricted
		NoAS: NoA_VALUE		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	•	else set to "international number".		
	SIP INVITE	SUT →	<b>→</b>	ISUP IAM

Table 48

Values for test purposes TP501018				
		SIP Parameter values:	ISUP Parameter value Address Format:	
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501019		SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]
TSS reference:	SIP-ISU	P/SS/CLI/	0[2]
SIP selection criteria:			
ISUP selection criteria:	PICS 6/3		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where:		
	<ul> <li>the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has been received;</li> </ul>		
	•	the SIP From header field containing NDC+ SN has been received;	a URI with an identity in the format "+" CC+
	•	a Privacy header field was received a "user".	and the priv-value component is set to
	sends a	n IAM message with the Calling party	y number parameter coded:
		Address signals = number derived from	om SIP P-Asserted-Identity
		Screening indicator = network provid	led
		Number Incomplete Indicator = PIXI7	г
	Numbering plan indicator = ISDN numbering plan		
	Address Presentation Restricted Indicator = Presentation restricted		
	NoAS: NoA_VALUE		
	with the Generic number parameter coded:		
	Address signals = number provided by the user		
	Screening indicator = user provided, not verified		
	Number Incomplete Indicator = complete		
		Numbering plan indicator = ISDN numbering	mbering plan
		Address Presentation Restricted Indi	icator = Presentation restricted
		NoAS: NoA_VALUE	
SIP Parameter values:			
ISUP Parameter values:			
Comments:	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>		
	•	else set to "international number".	
	SIP INVITE	SUT	ISUP → IAM

Table 49

Values for test purposes TP501019				
		SIP Parameter values:	ISUP Parameter value Address Format:	
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501020	5	SIP reference: RFC 3261 [6]		reference: 1.3.6 [2]
TSS reference:	SIP-ISU	P/SS/CLI/	-	
SIP selection criteria:				
ISUP selection	PICS 6/3	3		
criteria:				
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where:			
	<ul> <li>the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has been received;</li> </ul>			
	•	the SIP From header field containing NDC+ SN has been received;	a URI with an ident	ity in the format "+" CC+
	•	a Privacy header field was received	and the priv-value c	omponent is set to "id".
	sends a	n IAM message with the Calling party	number paramete	er coded:
		Address signals = number derived from	om SIP P-Asserted-	Identity
		Screening indicator = network provid	ed	
		Number Incomplete Indicator = PIXI	Г	
	Numbering plan indicator = ISDN numbering plan			
	Address Presentation Restricted Indicator = Presentation restricted			
	NoAS: NoA_VALUE			
	with the Generic number parameter coded:			
	Address signals = number provided by the user			
	Screening indicator = user provided, not verified			
		Number Incomplete Indicator = comp	olete	
		Numbering plan indicator = ISDN nu	mbering plan	
		Address Presentation Restricted Indi	cator = Presentation	n restricted
		NoAS: NoA_VALUE		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	<ul> <li>If CC is equal to the country code of the country where I-IWU is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number";</li> </ul>			
	else set to "international number".			
	SIP INVITE	SUT →	<b>→</b>	ISUP IAM

Table 50

	Values for test purposes TP501020			
			ISUP Parameter value Address Format:	
VA_01	NoAS_VALUE: "national (significant) number"	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	NDC+SN	
VA_02	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	From, userinfo component of URI assumed to be in form "+" CC+NDC+SN	CC+NDC+SN	

TP501021	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]	
TSS reference:	SIP-ISUP/SS/CLI/		
SIP selection			
criteria:			
ISUP selection	PICS 6/1 AND PICS 6/11		
criteria:	Francisco that the OUT is the Lille et et annual in		
Test purpose:	Ensure that the SUT in the Idle state, on receipt	pt of a INVITE message where:	
	the SIP P-Asserted-Identity containin CC+ NDC+ SN has not been received.	ng a URI with an identity in the format "+" ed;	
	the SIP From header field containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received;		
	a Privacy header field has not been received.		
	sends an IAM message with the Calling party number parameter coded:		
	Address signals = absent		
	Screening indicator = network provided		
	Nature of address indicator = 000000	00	
	Number Incomplete Indicator = 0		
	Numbering plan indicator = 000		
	Address Presentation Restricted Indicator = Address not available		
SIP Parameter			
values:			
ISUP Parameter			
values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	

TP501022	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]	
TSS reference:	SIP-ISUP/SS/CLI/	0.1.3.0 [2]	
SIP selection	011 1001 70070217		
criteria:			
ISUP selection	PICS 1/9		
criteria:			
Test purpose:	Ensure that the SUT in the Idle state, on receip	ot of a INVITE message where:	
	the SIP P-Asserted-Identity contain "+" CC+ NDC+ SN has been received.  **The SIP P-Asserted-Identity contains the SI	ing a SIP URI with an identity 1 in the format ed without user = phone;	
	the SIP <b>P-Asserted-Identity</b> containing a Tel URI with an identity 2 in the format "+" CC+ NDC+ SN has been received;		
	a Privacy header field has not been r	eceived.	
	sends an IAM message with the Calling party number parameter coded:		
	Address signals = identity 2		
	Screening indicator = network provided		
	Number Incomplete Indicator = PIXIT		
	Numbering plan indicator = ISDN nur	mbering plan	
	Address Presentation Restricted Indi	cator = Presentation allowed	
	NoAS: NoA_VALUE		
SIP Parameter values:			
ISUP Parameter values:			
Comments:	SIP SUT	ISUP	
	INVITE →	→ IAM	

TP501023	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]		
TSS reference:	SIP-ISUP/SS/CLI/	0.11010 [2]		
SIP selection				
criteria:				
ISUP selection	PICS 1/9 AND PICS 6/1 AND PICS 6/12			
criteria:				
Test purpose:	Ensure that the SUT in the Idle state, on rece	eipt of a INVITE message where:		
	<ul> <li>CC+ NDC+ SN has not been received</li> <li>the SIP From header field containing</li> </ul>	the SIP P-Asserted-Identity containing a URI with an identity in the format "+" CC+ NDC+ SN has not been received; the SIP From header field containing a URI with an identity in the format "+" CC+		
	NDC+ SN has not been received;			
	a Privacy header field has not been	n received.		
	sends an IAM message with the Calling par	ty number parameter coded:		
	Address signals = default number			
	Screening indicator = network provi	ded		
	Number Incomplete Indicator = PIXIT			
	Numbering plan indicator = ISDN no	umbering plan		
	Address Presentation Restricted Inc network	dicator = Presentation restricted by the		
	NoAS: NoA_VALUE			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP SUT INVITE →	ISUP → IAM		

TP501024	SIP reference: RFC 3261 [6]	ISUP reference: 6.1.3.6 [2]			
TSS reference:	SIP-ISUP/SS/CLI/	0.1.5.0 [2]			
SIP selection criteria:					
ISUP selection criteria:	PICS 1/9 AND PICS 6/1 AND PICS 6/3 AND F	PICS 6/12			
Test purpose:	Ensure that the SUT in the Idle state, on recei	pt of a INVITE message where:			
		the SIP P-Asserted-Identity containing a URI with an identity in the format "+"     CC+ NDC+ SN has not been received;			
	the SIP From header field containing NDC+ SN has been received;	<ul> <li>the SIP From header field containing a URI with an identity in the format "+" CC+ NDC+ SN has been received;</li> </ul>			
	a Privacy header field has not been	received.			
	sends an IAM message with the Calling party	y number parameter coded:			
	Address signals = default number				
	Screening indicator = network provid	ed			
	Number Incomplete Indicator = PIXIT  Numbering plan indicator = ISDN numbering plan				
	Address Presentation Restricted Indinetwork	Address Presentation Restricted Indicator = Presentation restricted by the network			
	NoAS: NoA_VALUE				
	with the Generic number parameter coded:  Address signals = number provided by the user				
	Screening indicator = user provided,	not verified			
	Number Incomplete Indicator = comp	olete			
	Numbering plan indicator = ISDN numbering plan				
	Address Presentation Restricted Indicator = Presentation allowed				
	NoAS: NoA_VALUE				
SIP Parameter values:					
ISUP Parameter values:					
Comments:	SIP SUT INVITE →	ISUP → IAM			

Table 51

	Values for test purposes TP501122, TP501023, TP501024				
	Nature of address indicator	SIP Parameter values:	ISUP Parameter value Address Format		
VA_0 1	NoAS_VALUE: "national (significant) number"	CC contained in the P-Asserted-Identity is equal to the country where the I-IWU is located and the next BICC/ISUP node is in the same country	NDC+SN		
VA_0 2	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	CC contained in the P-Asserted-Identity is not equal to the country where the I-IWU is located or the next BICC/ISUP node is not in the same country	CC+NDC+SN		

## 6.3.1.2 Call Hold (HOLD)

SIP selection criteria: ISUP selection criteria: Test purpose: En	P-ISUP/SS/HOLD/ apport the temporarily stops apport the generic notification		more unicast me	001 [2], annex B.10 edia streams.
SIP selection Su criteria: SUP selection criteria: Su criteria: En	pport the temporarily stops			edia streams.
criteria: ISUP selection Su criteria: Test purpose: En	pport the generic notification			edia streams.
ISUP selection Su criteria: Test purpose: En		n procedure for	HOLD gunnlom	
criteria: Test purpose: En		n procedure for	HOLD aupploma	
Test purpose: En	source that a party one much the		HOLD suppleme	entary service.
	aura that a narty aar wit th			
	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold The calling party should be able to retrieve the other party The called party should be able to put the other party on hold			
	The called party should be able to retrieve the other party			
	P: a=sendonly (put on hol			
values:	a=sendrecv or omitted (retrieve the call) o= <version incremented=""></version>			
	PG: Generic notification: ren			
values:				OGRESS (retrieve the call)
Comments: SIF		_	GCF	ISUP IAM
	/ITE	<b>→</b> ←	<b>→</b>	ACM
	0 Ringing 0 OK INVITE	<del>-</del>	<del>-</del>	ANM
	VITE(sendonly) O OK INVITE(recvonly)	<b>→</b> ←	<b>→</b>	CPG(hold)
	VITE(sendrecv) 0 OK INVITE(sendrecv)	<b>→</b>	<b>→</b>	CPG(retrieve)
	VITE(sendonly) 0 OK INVITE(recvonly)	<b>←</b> <b>→</b>	+	CPG(hold)
	VITE(sendrecv) 0 OK INVITE(sendrecv)	<b>←</b> →	+	CPG(retrieve)

TP502002	SIP reference: RFC 3261 [6]	ISI	JP reference:		
		EN 383 (	001 [2], annex B.10		
TSS reference:	SIP-ISUP/SS/HOLD/				
SIP selection	Support the temporarily stops sending one or	more unicast med	dia streams.		
criteria:					
ISUP selection	Support the generic notification procedure for	HOLD supplemen	ntary service.		
criteria:	Support the invocation of the service in the ale	erting state.			
Test purpose:	Ensure that a party can put the other party on		ng state. Ensure that the		
	party can retrieve the call previously put on ho	iia.			
	The calling party should be able to put	it the other party	on hold		
	<ul> <li>The calling party should be able to perform the calling party should be able to re</li> </ul>				
	The dailing party should be able to re	aneve are outer p	arty		
SIP Parameter	SDP: a=sendonly (put on hold)				
values:	a=sendrecv or omitted (retrieve the call)				
	o= <version incremented=""></version>				
ISUP Parameter	CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold)				
values:	Generic notification: remote retrieval event indicator PROGRESS (retrieve the call)				
Comments:	1	GCF _	ISUP		
	INVITE -	<b>→</b>	IAM		
	180 Ringing ←	<b>←</b>	ACM		
	UPDATE(sendonly) → CPG(hold) 200 OK UPDATE(recvonly) ←				
	UPDATE(sendrecv) →	<b>→</b>	CPG(retrieve)		
	200 OK UPDATE(sendrecv) ←				

TP502003	SIP reference: RFC 3261 [6]	ISUP reference:		
		EN 383 001 [2], annex B.10		
TSS reference:	SIP-ISUP/SS/HOLD/			
SIP selection	Support the temporarily stops sending one or			
criteria:	Support the invocation of the service after the	calling user has provided all of the		
	information necessary for processing the cal.			
ISUP selection criteria:	Support the generic notification procedure for	HOLD supplementary service.		
Test purpose:	Ensure that a party can put the other party on hold after the calling user has provided all of the information necessary for processing the call. Ensure that the party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold The calling party should be able to retrieve the other party			
SIP Parameter	SDP: a=sendonly (put on hold)			
values:	a=sendrecv or omitted (retrieve the call) o= <version> incremented</version>			
ISUP Parameter	ACM: called party status: no indication			
values:	CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold)			
		vent indicator PROGRESS (retrieve the call)		
Comments:		GCF ISUP → IAM		
	INVITE →	→ IAM		
	UPDATE(sendonly) →			
	200 OK UPDATE(recvonly)			
	UPDATE(sendrecv) →			
	200 OK UPDATE(sendrecv) ←			

TP502004	SIP reference: RFC 3	SIP reference: RFC 3261 [6] ISUP reference:		
		EN 383 001 [2], annex B.10		
TSS reference:	SIP-ISUP/SS/HOLD/			
SIP selection criteria:	Support the temporarily stops	sending one or	more unicast me	edia streams.
ISUP selection criteria:	Support the generic notification	n procedure for	HOLD suppleme	entary service.
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold The calling party should be able to retrieve the other party			
SIP Parameter values:	SDP: a=sendonly (put on hold) a=sendrecv or omitted (retrieve the call) o= <version incremented=""></version>			
ISUP Parameter values:	CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold) Generic notification: remote retrieval event indicator PROGRESS (retrieve the call)			
Comments:	INVITE 180 Ringing 200 OK INVITE  UPDATE(sendonly) 200 OK INVITE(recvonly)  UPDATE(sendrecv) 200 OK UPDATE(recvonly)	→ ← ← → ←	GCF	ISUP IAM ACM ANM CPG(hold) CPG(retrieve)

TP502005	SIP reference: RFC 3261 [6]	ISUP reference:		
		EN 383 001 [2], annex B.10		
TSS reference:	SIP-ISUP/SS/HOLD/			
SIP selection	Support the temporarily stops sending one or			
criteria:	The MGCF sends the update of the media stre	eam in an UPDATE message.		
ISUP selection	Support the generic notification procedure for	HOLD supplementary service.		
criteria:	-			
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.  The called party should be able to put the other party on hold The called party should be able to retrieve the other party			
SIP Parameter	SDP: a=sendonly (put on hold)			
values:	a=sendrecv or omitted (retrieve the call) o= <version incremented=""></version>			
ISUP Parameter	CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold)			
values:	Generic notification: remote retrieval event indicator PROGRESS (retrieve the call)			
Comments:	SIP INVITE  180 Ringing  200 OK INVITE  UPDATE(sendonly)  200 OK INVITE(recvonly)  UPDATE(sendrecv)  200 OK UPDATE(recvonly)  →	SCF ISUP  → IAM  ← ACM ← ANM  ← CPG(hold)  ← CPG(retrieve)		

TP502006	SIP reference: RFC	3261 [6]		SUP reference: 5 001 [2], annex B.10
TSS reference:	SIP-ISUP/SS/HOLD/			
SIP selection criteria:	Support the temporarily stop	os sending one or	more unicast m	edia streams.
ISUP selection criteria:	Support the generic notifica	tion procedure for	HOLD supplem	entary service.
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party in held state can put the remote party put on hold. Ensure that a party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold The called party should be able to retrieve the other party The called party should be able to retrieve the other party			
SIP Parameter values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call) o= <version incremented=""></version>			
ISUP Parameter values:	CPG: Generic notification: r	emote hold Event		RESS (put on hold) OGRESS (retrieve the call)
Comments:	SIP INVITE 180 Ringing 200 OK INVITE INVITE(sendonly) 200 OK INVITE(recvonly)		GCF → ← ←	ISUP  CPG(hold)
	INVITE(inactive) 200 OK INVITE(inactive)	<b>←</b> →	+	CPG(hold)
	INVITE(recvonly) 200 OK INVITE(sendonly)	<b>→</b>	<b>→</b>	CPG(retrieve)
	INVITE(sendrecv) 200 OK INVITE(sendrecv)	<b>←</b> →	<b>←</b>	CPG(retrieve)

TP502007	SIP reference: RFC	3261 [6]		SUP reference: 3 001 [2], annex B.10
TSS reference:	SIP-ISUP/SS/HOLD/			
SIP selection criteria:	Support the temporarily stop	os sending one or	more unicast m	edia streams
ISUP selection criteria:	Support the generic notifica	tion procedure for	HOLD supplem	entary service.
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party in held state can put the remote party put on hold. Ensure that a party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold The called party should be able to retrieve the other party The calling party should be able to retrieve the other party			
SIP Parameter values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call) o= <version incremented=""></version>			
ISUP Parameter values:	CPG: Generic notification: r	emote hold Event		RESS (put on hold) OGRESS (retrieve the call)
Comments:	SIP INVITE 180 Ringing 200 OK INVITE INVITE(sendonly) 200 OK INVITE(recvonly)	MC	GCF	ISUP  CPG(hold)
	INVITE(inactive) 200 OK INVITE(inactive)	<b>←</b> <b>→</b>	<b>←</b>	CPG(hold)
	INVITE(recvonly) 200 OK INVITE(sendonly)	<b>←</b> →	+	CPG(retrieve)
	INVITE(sendrecv) 200 OK INVITE(sendrecv)	<b>→</b>	<b>→</b>	CPG(retrieve)

Table 52: Void.

### 6.3.1.3 Terminal portability (TP)

TP503001	SIP reference: RFC 3261 [6]	ISUP reference:
		ITU-T Rec Q.1912.5 [1], annex B.13
TSS reference:	SIP-ISUP/SS/TP/	
SIP selection	PICS 8/3	
criteria:		
ISUP selection	PICS 5/6	
criteria:		
Test purpose:	Ensure that the SUT stop the temporarily send	
	SUS message (ISDN subscriber initiated) was	received.
	Ensure that the SUT retrieved the media strea	m if an RES message (ISDN subscriber
	initiated) was received.	
SIP Parameter	SDP: a=sendonly or a=inactive (suspe	•
values:	a=sendrecv or a=recvonly or om	itted (resumed)
ISUP Parameter	SUS: Suspend/Resume indicator ISDN si	
values:	RES: Suspend/Resume indicator ISDN s	ubscriber initiated
Comments:	SIP SUT	ISUP
	INVITE →	→ IAM
	180 Ringing ←	<b>←</b> ACM
	200 OK INVITE ←	<b>←</b> ANM
	INVITE +	<b>←</b> SUS
	INVITE <b>←</b>	<b>←</b> RES

TP503002	SIP reference	e: RFC 3261 [6]		SUP reference: Q.1912.5 [1], annex B.13	
TSS reference:	SIP-ISUP/SS/TP/		I.	<u> </u>	
SIP selection criteria:	PICS 5/6				
ISUP selection criteria:	PICS 4/14				
Test purpose:	Ensure that the SUT stop the temporarily sending one or more unicast media streams if a SUS message (ISDN subscriber initiated) was received.  Ensure that the connection is cleared after T2 was expired in the PSTN.				
SIP Parameter values:	SDP: a=sendonly or a=inactive (suspended)				
ISUP Parameter values:	SUS: Suspend/R	esume indicator ISDN s	ubscriber initiate	ed	
Comments:	SIP INVITE 180 Ringing 200 OK INVITE INVITE	SUT <b>→ ← ←</b>	→ ← ←	ISUP IAM ACM ANM SUS	
	T2 expiry				
	BYE 200 OK BYE	<b>←</b> →	<b>←</b> →	REL RLC	

Table 53: Void.

## 6.3.1.4 Conference calling (CONF)

TP504001	SIP reference: RFC 3261 [6]	NGN reference:		
		ES 283 027 [14], clause 7.4.14		
TSS reference:	SIP-ISUP/SS/CONF/			
SIP selection	PICS 8/2			
criteria:				
ISUP selection	PICS 5/10			
criteria:				
Test purpose:	Ensure that the SUT stop the temporarily send			
	CPG message Generic notification indicator w			
	received due to the CONF supplementary serv	vice.		
	If the madic atracm is either in state	"aandank" or "incative" than INIVITE with the		
	If the media stream is either in state attribute line a_LINE_VA, or omitted	"sendonly" or "inactive" then: INVITE with the		
	attribute line a_Line_vA, or offitted	attribute line, else. no mapping.		
SIP Parameter	SDP: a= a LINE_VA (see table 54) or a	ine is omitted		
values:	,			
ISUP Parameter	CPG: Generic notification = Conference e	stablished		
values:	CPG: Generic notification = <b>GEN_NOT_V</b>	ALUE		
Comments:	SIP SUT	ISUP		
	INVITE →	→ IAM		
	180 Ringing ←	<b>←</b> ACM		
	200 OK INVITE ←	<b>←</b> ANM		
	If the media stream is either in state "sendonly" or "inactive"			
	INVITE <b>←</b>	<b>←</b> CPG		
	INVITE	<b>←</b> CPG		
	BYE ← 200 OK BYE →	← REL → RLC		

Table 54: Void.

TP504003	SIP reference: RFC 3261 [6]		reference: [14], clause 7.4.14	
TSS reference:	SIP-ISUP/SS/CONF/			
SIP selection criteria:	PICS 8/2			
ISUP selection criteria:	PICS 5/10			
Test purpose:	Ensure that the SUT stop the temporarily sending one or more unicast media streams if a CPG message Generic notification indicator with the value <b>GEN_NOT_VALUE</b> was received due to the CONF supplementary service.  • If the media stream is either in state "sendonly" or "inactive" then: INVITE with the attribute line <b>a_LINE_VA</b> , or omitted attribute line, else: no mapping.			
SIP Parameter values:	SDP: a= a_LINE_VA (see table 55) or a	line is omitted		
ISUP Parameter values:	CPG: Generic notification = Conference & Generic notification = <b>GEN_NOT_N</b>			
Comments:	SIP SUT INVITE → 180 Ringing ← 200 OK INVITE ←	<b>→</b> <b>←</b> <b>←</b>	ISUP IAM ACM ANM	
	If the media stream is either in state "sendonly" or "inactive"			
	INVITE <b>←</b>	<b>←</b>	CPG	
	INVITE ←	<b>←</b>	CPG	
	BYE	<b>←</b> →	REL RLC	

Table 55: Void.

TP504005	SIP reference: RFC 3261 [6]	NGN reference: ITU-T Rec Q.1912.5 [1], annex B.1 1.7/Q.7344
TSS reference:	SIP-ISUP/SS/CONF/	
SIP selection	• NOT PICS 5/10	
criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of a CPG mes service, the Generic notification indicator with No mapping, no disrupting the SIP production.	the value.
SIP Parameter values:	No mapping	
ISUP Parameter	CPG: Generic notification = Conference e	established
values:	CPG: Generic notification = <b>isolated</b>	
	CPG: Generic notification = reattached CPG: Generic notification = Conference	disconnected
Comments:	SIP SUT	ISUP
	INVITE →	→ IAM
	180 Ringing ←	<b>←</b> ACM
	200 OK INVITE ←	<b>←</b> ANM
		<b>←</b> CPG
	BYE <b>←</b>	<b>←</b> REL
	200 OK BYE →	→ RLC

# 6.3.1.5 Three Party service (3PTY)

TP505001	SIP reference: RFC 3261 [6]		N reference:	
TSS reference:	CID ICUID/CC/ODTV/	ES 203 U21	' [14], clause 7.4.15	
SIP selection	SIP-ISUP/SS/3PTY/			
criteria:	PICS 8/2			
ISUP selection criteria:	PICS 5/5 AND PICS 5/18			
Test purpose:	Ensure that the SUT stop the temporarily sending one or more unicast media streams if a CPG message Generic notification indicator with the value GEN_NOT_VALUE was received due to the 3PTY supplementary service.  • If the media stream is either in state "sendonly" or "inactive" then: INVITE with the attribute line a_LINE_VA, or omitted attribute line, else: no mapping.			
SIP Parameter values:	SDP: a=_a_LINE_VA (see table 56)			
ISUP Parameter	CPG: notification = remote hold			
values:	CPG: Generic notification = <b>GEN_NOT_V</b>	/ALUE		
Comments:	SIP SUT		ISUP	
	INVITE →	<b>→</b>	IAM	
	180 Ringing ←	<b>←</b>	ACM	
	200 OK INVITE ←	<b>←</b>	ANM	
	INVITE	<b>←</b>	CPG(hold)	
	INVITE <b>←</b>	<b>←</b>	CPG	
	INVITE	<b>←</b>	CPG	
	BYE	<b>←</b> →	REL RLC	

TP505002	SIP reference: RFC 3261 [6]		reference:		
		ES 283 027	[14], clause 7.4.15		
TSS reference:	SIP-ISUP/SS/3PTY/				
SIP selection	PICS 8/2				
criteria:					
ISUP selection	PICS 5/5 AND PICS 5/18				
criteria:					
Test purpose:	Ensure that the SUT stop the temporarily send				
	CPG message Generic notification indicator w				
	received due to the 3PTY supplementary serv	ice in the ALERTIN	IG state.		
	If the media stream is either in state				
	attribute line a_LINE_VA, or omitted	attribute line, else:	no mapping.		
SIP Parameter	SDP: a= a LINE VA (see table 56)				
values:	SDF. $a=\underline{a}$ _LINE_VA (see table 50)				
ISUP Parameter	CPG: Generic notification = remote hold				
values:	CPG: Generic notification = GEN_NOT_V	ΔΙ UF			
Comments:	SIP SUT	ALUL	ISUP		
Johnnients.	INVITE →	<b>→</b>	IAM		
	180 Ringing ←	É	ACM		
	Too ranging	•	7.0101		
	UPDATE <b>←</b>	<b>←</b>	CPG(hold)		
			( )		
	UPDATE ← CPG				
	UPDATE ← CPG				
	BYE <b>←</b>	<b>←</b>	REL		
	200 OK BYE →	<b>→</b>	RLC		

Table 56

Values for test purpose TP505001, TP505002				
←INVITE/UPDATE ← CPG				
	SDP attribute line Generic notification			
	a_LINE_VA	GEN_NOT_VALUE		
VA_01 sendonly or inactive		Conference established		
VA_02	sendrecv or recvonly or omitted	Conference disconnected		

TP505003	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 [14], clause 7.4.15 2.7/Q.734
TSS reference:	SIP-ISUP/SS/3PTY/	
SIP selection criteria:	•	
ISUP selection criteria:	NOT PICS 5/18	
Test purpose:	Ensure that the SUT on receipt of a CPG mes service, the Generic notification indicator with No mapping, no disrupting the SIP production.	the value.
SIP Parameter values:	No mapping	
ISUP Parameter values:	CPG: Generic notification = Conference Generic notification = Conference	
Comments:	SIP SUT INVITE → 180 Ringing ← 200 OK INVITE ←	ISUP → IAM ← ACM ← ANM
		← CPG ← CPG
	BYE	← REL → RLC

# 6.3.1.6 Connected line identification (COL)

TP506001	SIP reference: RFC 3	3261 [6]		ISUP reference: c Q.1912.5 [1], annex B.2
TSS reference:	SIP-ISUP/SS/COL/			
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT, if a consIP signalling procedure. The			•
SIP Parameter				<u> </u>
values:				
ISUP Parameter	ANM: Connected number Pa	rameter		
values:				
	SIP	SI	JT	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
	ACK	<b>→</b>		
		Conve	rsation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

#### 6.3.1.7 Malicious call identification MCID

TP507001	SIP reference	: RFC 3261 [6]	ISUF	Preference:
			ITU-T Rec Q.	1912.5 [1], annex B.4
TSS reference:	SIP-ISUP/SS/MCID/			
SIP selection	PICS 9/1			
criteria:				
ISUP selection				
criteria:				
Test purpose:		an IDR is received retu		
		ID not included". The SI	P signalling proced	ure is not disrupted.
SIP Parameter	No influence			
values:				
ISUP Parameter	IDR: MCID reque			
values:	IRS: MCID not in	ncluded		
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
			<b>←</b>	IDR
			<b>→</b>	IRS
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	+	+	RLC

TP507002	SIP reference	: RFC 3261 [6]		reference:
			ITU-T Rec Q.1	1912.5 [1], annex B.4
TSS reference:	SIP-ISUP/SS/MCID/			
SIP selection	NOT PICS 9/1			
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT if	f an IDR is received, no	IDR is sent. The SII	P signalling procedure is
	not disrupted.			
SIP Parameter	No influence			
values:				
ISUP Parameter	IDR: MCID reque	ested		
values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
			<b>←</b>	IDR
			T39 timeout	
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>+</b>	÷	ANM
	200 OK HAVITE	Conversation	Conversation	) (I divi
		202.03.1011	230104.1011	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	+	RLC

## 6.3.1.8 Sub-addressing (SUB)

TP508001	SIP reference	: RFC 3261 [6]		ference: 2.5 [1], annex B.5
TSS reference:	SIP-ISUP/SS/SUB/		110-1 Nec Q.131	2.5 [1], aimex D.5
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	Ensure that the SUT if a Sub address is received in an ATP parameter, the SIP signalling procedure is not disrupted.			
SIP Parameter values:	No mapping into any SIP message			
ISUP Parameter values:	ANM: ATP with a	Connected sub-address	3	
Comments:	SIP	SUT		ISUP
	INVITE 180 Ringing 200 OK INVITE	→ ← ← Conversation	→ ← ← Conversation	IAM ACM ANM
	BYE 200 OK BYE	<b>→</b> ←	<b>→</b>	REL RLC

## 6.3.1.9 Call diversion (CDIV)

TP509001	SIP reference	e: RFC 3261 [6]	ISUP re	eference:
			ITU-T Rec Q.19	12.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/			
SIP selection				
criteria:				
ISUP selection criteria:				
Test purpose:		if an ACM is received wit d call indicator is set to "o upted (CDa, CFNR).		
SIP Parameter values:	No mapping			
ISUP Parameter	ACM optional backwa	ard call indicator		
values:	·			
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
			<b>←</b>	ACM
	180 Ringing	<b>←</b>	<b>←</b>	CPG
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	+	+	RLC

TP509002	SIP reference	e: RFC 3261 [6]		eference: 12.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/			
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	Ensure that the SUT if a ACM is received called party status indicator "no indication" and containing a <b>Redirection number, call diversion information, redirection number restriction and generic notification set to "Call is diverting"</b> , the SIP signalling procedure is not disrupted (CFU, CFB, Cdi).			
SIP Parameter values:	No mapping			
ISUP Parameter values:	ACM: Redirectio Generic no	n number, Call diversion otification	information, Redirection	on number restriction,
Comments:	SIP INVITE 180 Ringing 200 OK INVITE	SUT → ← ← Conversation	→ ← ← Conversation	ISUP IAM ACM ANM REL
	200 OK BYE	<del></del>	<del>7</del>	RLC

TP509003	SIP reference	: RFC 3261 [6]	ISUP refe	erence:
		• •	ITU-T Rec Q.1912	2.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/			
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:		a CPG is received con		
		n, redirection number		
		e SIP signalling proced	ure is not disrupted (Cda	a, CFNR, subsequent
	redirection).			
SIP Parameter	No mapping			
values:				
ISUP Parameter		y status "Subscriber free		
values:	CPG: Redirection	number, Call diversion	information, Generic no	tification
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
			<b>←</b>	CPG
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

TP509004	SIP reference	e: RFC 3261 [6]		P reference: .1912.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/			
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:		if an ANM is received wi signalling procedure is no		nber restriction
SIP Parameter values:	No mapping			
ISUP Parameter values:	ANM: Redirection	n number restriction		
Comments:	SIP INVITE 180 Ringing 200 OK INVITE	SUT  → ← ← Conversation	→ ← ← Conversati	ISUP IAM ACM ANM on
	BYE 200 OK BYE	<del>}</del>	<b>→</b> ←	REL RLC

## 6.3.1.10 Call waiting (CW)

TP510001	SIP reference	e: RFC 3261 [6]	ISUP refe	erence:
			ITU-T Rec Q.1912	2.5 [1], annex B.9
TSS reference:	SIP-ISUP/SS/CW/			
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT	if an ACM with <b>Generic</b>	notification parameter	= "Call is a waiting
	call", the SIP signalling	ng procedure is not disru	ıpted.	
SIP Parameter	No mapping			
values:				
ISUP Parameter	ACM: Generic no	tification parameter = "C	Call is a waiting call"	
values:				
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<del>-</del>	ANM
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	+	+	RLC

TP510002	SIP reference	: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.9
TSS reference:	SIP-ISUP/SS/CW/		
SIP selection criteria:			
ISUP selection criteria:			
Test purpose:		f a CPG with <b>Generic</b> ng procedure is not dis	notification parameter = "Call is a waiting rupted.
SIP Parameter	No mapping		
values:			
ISUP Parameter		y status "Subscriber fro	
values:	CPG: Generic no	tification parameter = '	'Call is a waiting call"
Comments:	SIP	SUT	ISUP
	INVITE	<b>→</b>	→ IAM
	180 Ringing	<b>←</b>	<b>←</b> ACM
			<b>←</b> CPG
	200 OK INVITE	<b>←</b>	<b>←</b> ANM
		Conversation	Conversation
	BYE	<b>→</b>	→ REL
	200 OK BYE	+	<b>←</b> RLC

# 6.3.1.11 User to user signalling (UUS)

TP511001	SIP reference	ce: RFC 3261 [6]	ITU-T Rec Q.19	reference: 912.5 [1], annex B.21 7.2/Q.737
TSS reference:	SIP-ISUP/SS/UUS/			
SIP selection criteria:				
ISUP selection criteria:	PICS 11/1 AND PIC	S 11/2		
Test purpose:	Ensure that the SUT if a FAR is received with an user-to-user service 3 request (not essential) after call setup, sent a FRJ to reject the request. The SIP signalling procedure is not disrupted.			
SIP Parameter values:				
ISUP Parameter values:	FRJ: User-to-u	ser indicator = "Service 3	3 not provided"	
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversatio	n
			<b>←</b>	FAR
			<b>→</b>	FRJ
		Conversation	Conversatio	n
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

TP511002	SIP reference: RFC 3261 [6]		ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21 1.3.5.2.5.2.1/Q.737	
TSS reference:	SIP-ISUP/SS/UUS/			
SIP selection				
criteria:				
ISUP selection	NO PICS 11/2			
criteria:				
Test purpose:	Ensure that the SUT	Ensure that the SUT if a FAR is received with an user-to-user service 3 request (not		
	essential) after call	setup, the SIP signalling բ	procedure is not disru	pted.
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	SIP	SUT	•	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<del>-</del>	ACM
	200 OK INVITE	<b>←</b>	<del>-</del>	ANM
		Conversation	Conversation	
			<b>←</b>	FAR
		Conversation	Conversation	
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	+	RLC

# 6.3.1.12 Explicit call transfer (ECT)

TP512001	SIP reference	e: RFC 3261 [6]		reference:
			ITU-T Rec Q.1	912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/ECT/			
SIP selection				
criteria:				
ISUP selection	PICS 12/1			
criteria:				
Test purpose:	indication "insufficier procedure.	if a LOP(request) is recent information" continue with a FAC is received cont	ithout disrupting the	SIP signalling
SIP Parameter				
values:				
ISUP Parameter	LOP: Response	"insufficient information"		
values:	·			
Comments:	SIP	SUT	•	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	า
			<b>←</b>	LOP
			<b>→</b>	LOP
			<b>←</b>	FAC
		Conversation	Conversation	า
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	<b>←</b>	<b>←</b>	RLC

TP512002	SIP reference	e: RFC 3261 [6]	ISU	JP reference:
			ITU-T Rec Q	).1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/ECT/			
SIP selection criteria:				
ISUP selection criteria:	NO PICS 12/1			
Test purpose:	signalling procedure.	if a LOP(request) is rece if a FAC is received cont		
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP INVITE 180 Ringing 200 OK INVITE	SUT  Conversation  Conversation	→ ← ← Conversat ← ← Conversat	LOP FAC
	200 OK BYE	<del>`</del>	<b>+</b>	RLC

## 6.3.1.13 Completion of Call to Busy Subscriber (CCBS)

TP513001	SIP reference	e: RFC 3261 [6]		ISUP reference:
			ITU-T	Rec Q.1912.5 [1], annex B.11
TSS reference:	SIP-ISUP/SS/CCBS/	1		
SIP selection				
criteria:				
ISUP selection criteria:				
Test purpose:	is coded as CCBS po			agnostic field and the CCBS indicator procedure.
SIP Parameter values:				
ISUP Parameter				
values:				
Comments:	SIP		SUT	ISUP
Comments.	INVITE	<b>→</b>	301 <del>-</del>	17.71
	486 Busy Here	É	•	
	ACK	<b>→</b>	-	RLC

## 6.3.1.14 Completion of Calls on No reply (CCNR)

TP514001	SIP reference	ce: RFC 3261 [6]	ISUP re	eference:
			ITU-T Rec Q.191	2.5 [1], annex B.12
TSS reference:	SIP-ISUP/SS/CCNR	2/		
SIP selection				
criteria:				
ISUP selection				
criteria:				
Test purpose:	Ensure that the SUT	if a ACM is received and	d a CCNR Possible Ind	icator is included:
	continue w	ithout disrupting the SIP	signalling procedure.	
SIP Parameter				
values:				
ISUP Parameter				
values:				
Comments:	SIP	SU	Γ	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	on
	BYE	<b>→</b>	<b>→</b>	REL
	200 OK BYE	+	<b>←</b>	RLC

### 6.3.1.15 Anonymous Call Rejection (ACR)

TP515001	SIP ref	erence: RFC 3261 [6]	ISUP reference:
			ES 283 027 [14], clause 7.4.23
TSS reference:	SIP-ISUP/SS/	ACR/	
SIP selection			
criteria:			
ISUP selection	PICS 1/9		
criteria:			
Test purpose:	Ensure that the	e SUT, if a destination user has	subscribed the ACR supplementary service:
	the call attempt is rejected with a REL cause value 24 "call rejected due to ACR		
	supp	lementary service".	
SIP Parameter	INVITE: Privacy-header = "id"		
values:	603 Decline:	e: Reason header field Reason: ITU-T Rec Q.850 [5];cause=24	
ISUP Parameter	REL: Cause value: 24 "call rejected due to ACR supplementary service"		
values:			·
Comments:	SIP	SUT	ISUP
	INVITE	<b>→</b>	→ IAM
	603 Decline	<b>←</b>	<b>←</b> REL
	ACK	<b>→</b>	→ RLC

TP515002	SIP reference	: RFC 3261 [6]	ISUP ref ES 283 027 [14]	
TSS reference:	SIP-ISUP/SS/ACR/		<u> </u>	
SIP selection criteria:				
ISUP selection criteria:	PICS 1/9 AND PICS 6	5/12		
Test purpose:	Ensure that the SUT is	a destination user has	subscribed the ACR sup	oplementary service:
		npt is successful.		
SIP Parameter values:	INVITE: No P-Asser	ted-Identity header field	and no Privacy header	field present
ISUP Parameter values:		y number Address pres y the network"	entation restriction is se	t to "Presentation
Comments:	SIP	SUT		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
		Conversation	Conversation	
	BYE 200 OK BYE	<b>→</b>	<b>→</b> ←	REL RLC

# 6.3.2 Interworking from ISUP to SIP (Outgoing Call)

# 6.3.2.1 Calling Line Identification (CLI)

TP601001	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	<ul> <li>parameter and the Generic Number are not a</li> <li>Sends an INVITE message without</li> </ul>	AM message whereby Calling Party Number applicable: the "P-Asserted-Identity header field", a ble@hostportion and without a "Privacy
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP/BICC SUT →	SIP → INVITE

TP601002	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection	PICS 4/13	
criteria:		
ISUP selection		
criteria:		
Test purpose:	Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter is <b>not</b> 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" and no a "Privacy Header field".	
SIP Parameter values:	P-Asserted-Identity header field: not included:  From header field: Display-name (optional) and addr-spec:  Addr-spec: Addr_SPEC_ID  Display-name: display-name is derived from the Generic number (AcgPN)	
ISUP Parameter	Privacy header: is not included	nhor"
values:	Generic Number: "additional calling party number" Nature of Address Indicator: NoAS_VALUE	
Comments:	ISUP/BICC SUT	SIP
Comments.	IAM →	→ INVITE

Table 57

	Values for test purpose TP601002;		
	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.	

TP601003	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection	NOT PICS 4/13		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter is <b>not</b> 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" and no a "Privacy Header field".		
SIP Parameter values:	P-Asserted-Identity header field: not included:  From header field: Display-name (optional) and addr-spec:  Addr-spec: Addr_SPEC_ID  Display-name: not supported		
ISUP Parameter	Privacy header: is not included.  Generic Number: "additional calling party number"		
values:	Nature of Address Indicator: NoAS_VALUE		
Comments:	ISUP/BICC SUT	SIP	
	IAM →	→ INVITE	

Table 58

	Values for test purpose TP601003;			
	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.		

TP601004	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]
TSS reference:	ISUP-SIP/SS/CLI/	<u> </u>
SIP selection criteria:	PICS 4/13 AND PICS 4/20	
ISUP selection criteria:		
Test purpose:	<ul> <li>Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation allowed and the Generic Number is not applicable:</li> <li>Sends an INVITE message with the "P-Asserted-Identity header field" where the "addr-spec" is set to PAIh_Addr_SPEC_ID, a "From header field" where the "addr-spec" is set to FHf_Addr_SPEC_ID without "Privacy Header field" or "id" is not included.</li> </ul>	
SIP Parameter values:	P-Asserted-Identity header field:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: display-name is mapped from CgPN Address Signals  From header field: Display-name (optional) and addr-spec:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: Display-name: display-name is mapped from CgPN Address Signals  Privacy header: is not included or if included, "id" is not included	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE

	Values for test purpose TP601004;		
	ISUP Parameter values:	SIP Parameter values:	
VA_01	IAM	INVITE	
	NoAS_VALUE: "national (significant) number"(NDC+SN)	PAIh_Addr_SPEC_ID = FHf_Addr_SPEC_ID: Add CC (of the country where the IWU is located) to CgPN Signals then map to user portion of URI scheme used	
VA_02	IAM	INVITE	
	NoAS_VALUE: "international	PAIh_Addr_SPEC_ID= FHf_Addr_SPEC_ID: the complete to	
	number"	CgPN Signals is mapped to the user portion of URI scheme.	
	("+"CC+NDC+SN)		

TP601005	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection criteria:	NOT PICS 4/13 AND PICS 4/20		
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 allowed and the Generic Number is not applicable:  • Sends an INVITE message with the "P-Asserted-Identity header field" where the "addr-spec" is set to PAIh_Addr_SPEC_ID;  • a "From header field" where the "addr-spec" is set to FHf_Addr_SPEC_ID;		
	without "Privacy Header field" or "id" is not supported.		
SIP Parameter values:	P-Asserted-Identity header field:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: display-name is mapped from CgPN Address Signals  From header field: Display-name (optional) and addr-spec:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: not supported  Privacy header: is not included or if included, "id" is not included.		
ISUP Parameter values:			
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE	

	Values for test purpose TP601005		
	ISUP Parameter values:	SIP Parameter values:	
VA_01	IAM	INVITE	
	NoAS_VALUE: "national (significant)	PAIh_Addr_SPEC_ID = FHf_Addr_SPEC_ID: Add CC (of the	
	number"(NDC+SN)	country where the IWU is located) to CgPN Signals then map to	
		user portion of URI scheme used	
VA_02	IAM	INVITE	
	NoAS_VALUE: "international number"	PAIh_Addr_SPEC_ID= FHf_Addr_SPEC_ID: the complete to	
	("+"CC+NDC+SN)	CgPN Signals is mapped to the user portion of URI scheme.	

TP601006	SIP reference: RFC 3261 [6]	ISUP reference:	
TSS reference:	ISUP-SIP/SS/CLI/	EN 383 001 clause 7.1.3 [2]	
SIP selection	PICS 4/13 AND PICS 4/20		
criteria:	PICS 4/13 AND PICS 4/20		
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 <b>presentation restricted</b> and the Generic Number is not applicable:  • Sends an INVITE message with the "P-Asserted-Identity header field" where the "addr-spec" is set to PAIh_Addr_SPEC_ID, a "From header field" where the "addr-spec" is set to FHf_Addr_SPEC_ID and with "Privacy Header field".		
SIP Parameter values:	P-Asserted-Identity header field:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)		
	Display-name: display-name is mapped from CgPN Address Signals  From header field: Display-name (optional) and addr-spec:		
	Addr-spec: Anonymous@Anonymous.invalid  Display-name: Anonymous		
	Privacy header: "id".		
ISUP Parameter values:			
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE	

	Values for test purpose TP601006			
	ISUP Parameter values: SIP Parameter values:			
VA_01	IAM	INVITE		
	NoAS_VALUE: "national (significant) number"(NDC+SN)	PAIh_Addr_SPEC_ID = FHf_Addr_SPEC_ID: CC (of the country where the IWU is located) is added to the CgPN Signals and then mapped to user portion of URI scheme used		
VA_02	IAM	INVITE		
	NoAS_VALUE: "international number" ("+"CC+NDC+SN)	PAIh_Addr_SPEC_ID= FHf_Addr_SPEC_ID: the complete to CgPN Signals is mapped to the user portion of URI scheme.		

TP601007	SIP reference: RFC 3261 [6]	ISUP reference:	
T00(		EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection	NOT PICS 4/13 AND PICS 4/20		
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 <b>presentation restricted</b> and the Generic Number is not applicable:		
	<ul> <li>Sends an INVITE message with the "P-Asserted-Identity header field" where the "addr-spec" is set to PAIh_Addr_SPEC_ID, a "From header field" where the "addr-spec" is set to FHf_Addr_SPEC_ID and with "Privacy Header field".</li> </ul>		
SIP Parameter	P-Asserted-Identity header field:		
values:	Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: display-name is mapped from CgPN Address Signals		
	From header field: Display-name (optional) and addr-spec:		
	Addr-spec: Anonymous@Anonymous.invalid		
	Display-name: not supported		
	Privacy header: "id".		
ISUP Parameter values:			
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE	

	Values for test purpose TP601007			
	ISUP Parameter values: SIP Parameter values:			
VA_01	IAM	INVITE		
	NoAS_VALUE: "national (significant)	PAIh_Addr_SPEC_ID = FHf_Addr_SPEC_ID: CC (of the		
	number"(NDC+SN)	country where the IWU is located) is added to the CgPN		
		Signals and then mapped to user portion of URI scheme used		
VA_02	/A 02 IAM INVITE			
	NoAS_VALUE: "international number"	PAIh_Addr_SPEC_ID= FHf_Addr_SPEC_ID: the complete to		
	("+"CC+NDC+SN)	CgPN Signals is mapped to the user portion of URI scheme.		

TP601008	SIP reference: RFC 3261 [6]	ISUP reference:	
		EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection	PICS 4/13 AND NOT PICS 4/20		
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 <b>presentation allowed</b> and the Generic Number is applicable:		
	<ul> <li>Sends an INVITE message with the "P-Asserted-Identity header field", where the "addr-spec" is set to PAIh_Addr_SPEC_ID "From header field" where the "addr-spec" is set to FH_Addr_SPEC_ID and without "Privacy Header field" or "id" is not included.</li> </ul>		
SIP Parameter	P-Asserted-Identity header field:		
values:			
	Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)		
	Display-name: not supported		
	From header field: Display-name (optional) and addr-spec:		
	Addr-spec: FH_Addr_SPEC_ID (Derived from Generic Number parameter Address Signals (AcgPN))		
	Display-name: display-name is mapped from ACgPN Address Signals		
	Privacy header: is not included or if included, "id" is not included.		
ISUP Parameter	Generic Number: "additional calling party number"		
hbvalues:	Nature of Address Indicator: CP_NoAS_VALUE		
	APRI: presentation allowed		
Comments:	ISUP/BICC SUT	SIP	
	IAM →	→ INVITE	

#### Table 62a

	Values for test purpose TP601008			
Test	ISUP Parameter values:	SIP Parameter values:		
purposes				
VA_01	NoAS_VALUE: "national (significant) number"(NDC+SN)	INVITE FHf_Addr_SPEC_ID: Add CC (of the country where the IWU is located) to CgPN Signals then map to user portion of URI scheme used	INVITE PAIh_Addr_SPEC_ID: Add CC (of the country where the IWU is located) to CgPN Signals then map to user portion of URI scheme used	
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.	INVITE PAIh_Addr_SPEC_ID: the complete GenericNumber Address Signals is mapped to the user portion of URI scheme used.	

TP601009	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection criteria:	NOT PICS 4/13 AND NOT PICS 4/20		
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 allowed and the Generic Number is applicable:  • Sends an INVITE message with the "P-Asserted-Identity header field", where the "addr-spec" is set to PAIh_Addr_SPEC_ID "From header field" where the "addr-spec" is set to FH_Addr_SPEC_ID and without "Privacy Header field" or "id" is not included.		
SIP Parameter values:	P-Asserted-Identity header field:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: not supported  From header field: Display-name (optional) and addr-spec:  Addr-spec: FH_Addr_SPEC_ID (Derived from Generic Number parameter Address Signals (AcgPN))  Display-name: not supported  Privacy header: is not included or if included, "id" is not included.		
ISUP Parameter	Generic Number: "additional calling party number"		
hbvalues:	Nature of Address Indicator: CP_NoAS_VALUE APRI: presentation restricted		
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE	

	Values for test purpose TP601009			
	ISUP Parameter values:	SIP Parameter values:		
VA_01	NoAS_VALUE: "national (significant) number"(NDC+SN)	INVITE FHf_Addr_SPEC_ID: Add CC (of the country where the IWU is located) to CgPN Signals then map to user portion of URI scheme used	INVITE PAIh_Addr_SPEC_ID: Add CC (of the country where the IWU is located) to CgPN Signals then map to user portion of URI scheme used	
VA_02	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.	INVITE PAIh_Addr_SPEC_ID: the complete GenericNumber Address Signals is mapped to the user portion of URI scheme used.	

TP601010	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection	PICS 4/13 AND PICS NOT 4/20		
criteria:			
ISUP selection			
criteria:			
Test purpose:	<ul> <li>Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is applicable:</li> <li>Sends an INVITE message with the "P-Asserted-Identity header field", where the "addr-spec" is set to PAIh_Addr_SPEC_ID "From header field" where the "addr-spec" is set to FH_Addr_SPEC_ID and with "Privacy Header field".</li> </ul>		
	·	·	
SIP Parameter values:	P-Asserted-Identity header field:  Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)  Display-name: not supported		
	From header field: Display-name (optional) and addr-spec:		
	Addr-spec: Anonymous@Anonymous.invalid		
	Display-name: Anonymous		
	Privacy header: "id".		
ISUP Parameter values:	Generic Number: "additional calling party number" Nature of Address Indicator: NoAS_VALUE APRI: presentation restricted		
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE	

Table 64

	Values for test purpose TP601010			
	ISUP Parameter values:	SIP Parameter values:		
VA_01	IAM	INVITE	INVITE	
	NoAS_VALUE: "national	FHf_Addr_SPEC_ID: Add CC (of	PAIh_Addr_SPEC_ID: Add CC (of	
	(significant) number"(NDC+SN)	the country where the IWU is	the country where the IWU is	
		located) to CgPN Signals then	located) to CgPN Signals then map	
		map to user portion of URI	to user portion of URI scheme used	
		scheme used		
VA_02	IAM	INVITE	INVITE	
	NoAS_VALUE: "international	FHf_Addr_SPEC_ID: the	PAIh_Addr_SPEC_ID: the complete	
	number"	complete GenericNumber Address	GenericNumber Address Signals is	
	("+"CC+NDC+SN)	Signals is mapped to the user	mapped to the user portion of URI	
		portion of URI scheme.	scheme used.	

TP601011	SIP reference: RFC 3261 [6]	ISUP reference:	
		EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection	NOT PICS 4/13 AND PICS NOT 4/25		
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 "addr-spec" is set to PAIh_Addr_SPEC_ID "From header field" where the "addr-spec" is set to FH_Addr_SPEC_ID and with "Privacy Header field".		
SIP Parameter	P-Asserted-Identity header field:		
values:	1 -Asserted-Identity Header Held.		
	Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)		
	Display-name: not supported		
	From header field: Display-name (optional) and addr-spec:		
	Addr-spec: Anonymous@Anonymous.invalid		
	Display-name: not supported		
	Privacy header: "id".		
ISUP Parameter values:	Generic Number: "additional calling party number" Nature of Address Indicator: NoAS_VALUE APRI: presentation restricted		
Comments:	ISUP/BICC SUT IAM →	SIP → INVITE	

TP601012	SIP reference: RFC 3261 [6]	ISUP reference:	
T00 (	IOUD OID/OC/OLI/	EN 383 001 clause 7.1.3 [2]	
TSS reference:	ISUP-SIP/SS/CLI/		
SIP selection	PICS 4/13 AND PICS 4/20		
criteria:			
ISUP selection			
criteria:			
Test purpose:	Ensure that when the SUT has received an IAM message, the <b>Calling Party Number is applicable</b> whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to <b>presentation allowed</b> and the <b>Generic Number is applicable</b> .		
	"addr-spec" is set to PAIh_Addr_SP	"P-Asserted-Identity header field", where the EC_ID "From header field" where the "addrand without "Privacy Header field" or "id" is	
SIP Parameter values:	P-Asserted-Identity header field:    Addr-spec: PAlh_Addr_SPEC_ID (Derived from Calling Party Number parameter Address Signals)    Display-name: display-name is mapped from CgPN Address Signals  From header field: Display-name (optional) and addr-spec    Addr-spec: FH_Addr_SPEC_ID (Derived from Generic Number parameter Address Signals (AcgPN))    Display-name: display-name is mapped from ACgPN Address Signals    Privacy header: is not included or if included, "id" is not included		
ISUP Parameter	Generic Number: "additional calling party number"		
values:	Nature of Address Indicator: CP_NoAS_VALUE APRI: presentation allowed		
Comments:	ISUP/BICC SUT	SIP	
	IAM → → INVIT	E	

TP601013	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]]	
TSS reference:	ISUP-SIP/SS/CLI/	EN 303 001 Clause 7.1.3 [2]]	
SIP selection			
criteria:	PICS 4/13 AND PICS 4/20		
ISUP selection criteria:			
0	Ensure that when the SUT has received an I	AM massage the Colling Party Number is	
Test purpose:	applicable whereby the Nature of Address Ir set to presentation restricted and the General	ndicator is set to NoAS_VALUE the APRI is	
	Sends an INVITE message with the "P-Asse spec" is set to PAIh_Addr_SPEC_ID "From I FH_Addr_SPEC_ID and with "Privacy Heads	neader field" where the "addr-spec" is set to	
SIP Parameter	P-Asserted-Identity header field:		
values:	Addr-spec: PAIh_Addr_SPEC_ID (Derived from Calling Party Number		
	parameter Address Signals)		
	Display-name: display-name is mapped for	rom CgPN Address Signals	
	From header field: Display-name (optional) and addr-spec Addr-spec: FH_Addr_SPEC_ID (Derived from Generic Number		
	parameter Address Signals (AcgPN))	Irom Generic Number	
	Display-name: Anonymous		
	Biopiay Hame: 7 monymode		
	Privacy header: "id"		
ISUP Parameter	Generic Number: "additional calling party nui	mber"	
values:	Nature of Address Indicator: CP_NoAS_VAL		
	APRI: presentation restricted		
Comments:	ISUP/BICC SUT	SIP	
	IAM → INVIT	E	

TP601014	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]]
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection	NOT PICS 4/13 AND PICS 4/20	
criteria:		
ISUP selection criteria:		
Test purpose:	"addr-spec" is set to PAIh_Addr_SP	ndicator is set to NoAS_VALUE the APRI is
SIP Parameter values:	P-Asserted-Identity header field:    Addr-spec: PAIh_Addr_SPEC_ID (Derive parameter Address Signals)    Display-name: display-name is mapped field: Display-name (optional) a Addr-spec: FH_Addr_SPEC_ID (Derived parameter Address Signals (AcgPN))    Display-name: not supported  Privacy header: is not included or if included,	rom CgPN Address Signals  nd addr-spec from Generic Number
ISUP Parameter values:	Generic Number: "additional calling party nur Nature of Address Indicator: CP_NoAS_VAL APRI: presentation allowed	
Comments:	ISUP/BICC SUT INVIT	SIP E

TP601015	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 clause 7.1.3 [2]
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	NOT PICS 4/13 AND PICS 4/20	
ISUP selection criteria:		
Test purpose:	Ensure that when the SUT has received an IA applicable whereby the Nature of Address Ir set to presentation restricted and the Gene Sends an INVITE message with the "P-Asser spec" is set to PAIh_Addr_SPEC_ID; "From IFH_Addr_SPEC_ID and with "Privacy Header."	ric Number is applicable. ted-Identity header field", where the "addrneader field" where the "set to
SIP Parameter values:	P-Asserted-Identity header field:    Addr-spec: PAlh_Addr_SPEC_ID (Derive parameter Address Signals)    Display-name: display-name is mapped fr  From header field: Display-name (optional) a    Addr-spec: FH_Addr_SPEC_ID (Derived parameter Address Signals (AcgPN))    Display-name: not supported  Privacy header: "id"	om CgPN Address Signals
ISUP Parameter values:	Generic Number: "additional calling party nur Nature of Address Indicator: CP_NoAS_VALI APRI: presentation restricted	
Comments:	ISUP/BICC SUT IAM → INVIT	SIP E

	Values for test purpose TP601011; TP601012; TP601013, TP601014 and TP601015				
Test	ISUP Parameter values:	SIP Parameter values:			
purposes					
1	IAM NoAS_VALUE: " <i>national</i>	INVITE FHf_Addr_SPEC_ID: Add CC (of the	INVITE PAIh_Addr_SPEC_ID: Add CC (of		
	(significant) number"(NDC+SN)	CgPN Signals then map to user portion	the country where the IWU is located) to CgPN Signals then		
		of URI scheme used	map to user portion of URI scheme used		
	IAM NoAS_VALUE: "international number"	INVITE FHf_Addr_SPEC_ID: the complete GenericNumber Address Signals is	INVITE PAIh_Addr_SPEC_ID: the complete GenericNumber		
	("+"CC+NDC+SN)	mapped to the user portion of URI scheme.	Address Signals is mapped to the user portion of URI scheme used.		

## 6.3.2.2 Call Hold (HOLD)

TP602001	SIP reference	: RFC 3261 [6]		ISUP reference:
			EN	383 001 [2], annex B.10
TSS reference:	ISUP-SIP/SS/HOLD/			
SIP selection	Support the temporarily stops sending one or more unicast media streams			
criteria:				
ISUP selection	Support the generic no	otification procedure for	HOLD supp	lementary service
criteria:				
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.  • The calling party should be able to put the other party on hold			
	<ul> <li>The calling party should be able to put the other party of hold</li> <li>The calling party should be able to retrieve the other party</li> <li>The called party should be able to put the other party on hold</li> <li>The called party should be able to retrieve the other party</li> </ul>			
SIP Parameter	SDP: a=sendonly (put	on hold)		
values:	,	mitted (retrieve the call)		
ISUP Parameter	CPG: Generic notifica	tion: remote hold Event	indicator PF	ROGRESS (put on hold)
values:				r PROGRESS (retrieve the call)
Comments:	ISUP/BICC	MGC		SIP
	IAM	<del>)</del>	<b>→</b>	INVITE
	ACM	<del>(</del>	<del>(</del>	180 Ringing
	ANM	+	<del>(</del>	200 OK INVITE
	CPG(hold)	<b>→</b>	<b>→</b>	INVITE(sendonly)
	or o(noid)	,	÷	200 OK INVITE(recvonly)
	CPG(retrieve)	<b>→</b>	<b>→</b>	INVITE(sendrecv) 200 OK INVITE(sendrecv)
		_	_	
	CPG(hold)	<del>(</del>	<del>(</del>	INVITE(sendonly)
			<b>→</b>	200 OK INVITE(recvonly)
	CPG(retrieve)	<b>←</b>	<b>←</b> →	INVITE(sendrecv) 200 OK INVITE(sendrecv)
			<b>→</b>	200 OK INVITE(sendrecv)

Table 66: Void

TP602002	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 [2], annex B.10			
TSS reference:	ISUP-SIP/SS/HOLD/	LIN 303 001 [2], aimex B. 10			
SIP selection	Support the temporarily stops sending one or	r more unicast media streams			
criteria:	Support the invocation of the service in the a				
ISUP selection	Support the invocation of the service in the a				
criteria:	Capport the generic notification procedure to	THOLD Supplementary service			
Test purpose:	Ensure that a party can put the other party on hold in the alerting state. Ensure that the party can retrieve the call previously put on hold.  • The calling party should be able to put the other party on hold				
	The calling party should be able to r				
SIP Parameter	SDP: a=sendonly (put on hold)				
values:	a=sendrecv or omitted (retrieve the call	)			
	o= <version incremented=""></version>				
ISUP Parameter	CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold)				
values:		vent indicator PROGRESS (retrieve the call)			
Comments:	ISUP/BICC MGG				
	IAM	→ INVITE			
	ACM ←	← 180 Ringing			
	CPG(hold) → UPDATE(sendonly)				
	← 200 OK UPDATE(recevonly)				
	CPG(retrieve) →	→ UPDATE(sendrecv)			
		← 200 OK UPDATE(sendrecv)			

TP602003	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 [2], annex B.10			
TSS reference:	ICLUD CID/CC/LIQLD/	EN 363 001 [2], annex B.10			
	ISUP-SIP/SS/HOLD/				
SIP selection	Support the temporarily stops sending one o	r more unicast media streams			
criteria:					
ISUP selection	Support the generic notification procedure fo	r HOLD supplementary service			
criteria:					
Test purpose:	Ensure that a party can put the other party on hold after the calling user has provided all of the information necessary for processing the call. Ensure that the party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold  The calling party should be able to retrieve the other party				
SIP Parameter	SDP: a=sendonly (put on hold)				
values:	a=sendrecv or omitted (retrieve the call				
	o= <version incremented=""></version>				
ISUP Parameter	CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold)				
values:	Generic notification: remote retrieval event indicator PROGRESS (retrieve the call)				
Comments:	ISUP/BICC MG(				
	IAM →	→ INVITE			
	ACM ←	← 180 Ringing			
	ANM ←	← 200 OK INVITE			
	CPG(hold) ←	<ul><li>← UPDATE(sendonly)</li><li>→ 200 OK UPDATE(recevonly)</li></ul>			
	CPG(retrieve)	<ul><li>← UPDATE(sendrecv)</li><li>→ 200 OK UPDATE(sendrecv)</li></ul>			

TP602004	SIP reference: RFC 3261 [6]		ISUP reference:		
			EN 383 001 [2], annex B.10		
TSS reference:	ISUP-SIP/SS/HOLD/				
SIP selection	Support the temporarily stops sending one or more unicast media streams				
criteria:	The MGCF sends the update of the media	stream	n in an UPDATE message		
ISUP selection criteria:	Support the generic notification procedure	for HOL	LD supplementary service		
Test purpose:	Ensure that a party can put the other party on hold in the alerting state. Ensure that the party can retrieve the call previously put on hold.  • The calling party should be able to put the other party on hold  • The calling party should be able to retrieve the other party				
SIP Parameter	SDP: a=sendonly (put on hold)				
values:	a=sendrecv or omitted (retrieve the of o= <version incremented=""></version>	call)			
ISUP Parameter values:	CPG: Generic notification: remote hold Ev Generic notification: remote retrieva		cator PROGRESS (put on hold) indicator PROGRESS (retrieve the call)		
Comments:	ISUP/BICC IAM ACM ANM  ← CPG(hold)  CPG(retrieve)	IGCF	SIP  → INVITE  ← 180 Ringing  ← 200 OK INVITE  → UPDATE(sendonly)  ← 200 OK UPDATE(recevonly)  → UPDATE(sendrecv)  ← 200 OK UPDATE(sendrecv)		

TP602005	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 [2], annex B.10			
TSS reference:	ISUP-SIP/SS/HOLD/				
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams				
ISUP selection criteria:	Support the generic notification procedure for HOLD supplementary service				
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.  • The calling party should be able to put the other party on hold  • The called party should be able to put the other party on hold  • The calling party should be able to retrieve the other party  • The called party should be able to retrieve the other party				
SIP Parameter values:	SDP: a=sendonly (put on hold) a=sendrecv or omitted (retrieve the call) o= <version incremented=""></version>				
ISUP Parameter	CPG: Generic notification: remote hold Eve				
values:		event indicator PROGRESS (retrieve the call)			
Comments:	ISUP/BICC       M         IAM       →         ACM       ←         ANM       ←         CPG(hold)       →	GCF SIP  → INVITE  ← 180 Ringing  ← 200 OK INVITE  → INVITE(sendonly)  ← 200 OK INVITE(recvonly)			
	CPG(hold) ←	<ul><li>← INVITE(inactive)</li><li>→ 200 OK INVITE(inactive)</li></ul>			
	CPG(retrieve) → INVITE(recvonl				
	CPG(retrieve) ←	<ul><li>← INVITE(sendrecv)</li><li>→ 200 OK INVITE(sendrecv)</li></ul>			

TP602006	SIP reference: RFC 3261 [6]	ISUP reference: EN 383 001 [2], annex B.10			
TSS reference:	ICUID CID/CC/LICUID/	EN 363 001 [2], annex B.10			
	ISUP-SIP/SS/HOLD/				
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams				
ISUP selection criteria:	Support the generic notification procedure for HOLD supplementary service				
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.  The calling party should be able to put the other party on hold The called party should be able to put the other party on hold The called party should be able to retrieve the other party The calling party should be able to retrieve the other party				
SIP Parameter	SDP: a=sendonly (put on hold)				
values:	a=sendrecv or omitted (retrieve the call o= <version incremented=""></version>	)			
ISUP Parameter	CPG: Generic notification: remote hold Event	t indicator PROGRESS (put on hold)			
values:		vent indicator PROGRESS (retrieve the call)			
Comments:	ISUP/BICC IAM ACM ANM  CPG(hold)  CPG(retrieve)  MGC  CPG(retrieve)  MGC  CPG(retrieve)	→ INVITE ← 180 Ringing ← 200 OK INVITE  → INVITE(sendonly) ← 200 OK INVITE(recvonly)  ← INVITE(inactive) → 200 OK INVITE(inactive)			
	CPG(retrieve) ←  CPG(retrieve) →	<ul> <li>► INVITE(recvonly)</li> <li>→ 200 OK INVITE(sendonly)</li> <li>→ INVITE(sendrecv)</li> <li>← 200 OK INVITE(sendonly)</li> </ul>			
		← 200 OK INVITE(sendrecv)			

# 6.3.2.3 Terminal portability (TP)

TP603001	SIP refer	ence: RFC 3261 [6	6]	ITU-T F	ISUP reference: Rec Q.1912.5 [1], annex B.13
TSS reference:	ISUP-SIP/SS/TP	/			2 27
SIP selection criteria:					
ISUP selection criteria:	PICS 5/6				
Test purpose:	Ensure that the SUT stop the temporarily sending one or more unicast media streams if a SUS message (ISDN subscriber initiated) was received.  Ensure that the SUT retrieved the media stream if an RES message (ISDN subscriber initiated) was received.				
SIP Parameter	SDP: a=sen	donly or a=inact	ive (suspe	nded)	
values:	a=sendrecv or a=recvonly or omitted (resumed)				
ISUP Parameter	SUS: Suspend/Resume indicator ISDN subscriber initiated				
values:	RES: Suspend/Resume indicator ISDN subscriber initiated				
Comments:	ISUP/BICC		SUT		SIP
	IAM	<b>→</b>		<b>→</b>	INVITE
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	ANM	<b>←</b>		<b>←</b>	200 OK INVITE
	SUS	<b>→</b>		<b>→</b>	INVITE
	RES	<b>→</b>		<b>→</b>	INVITE

TP603002	SIP refe	erence: RFC 3261 [6]	ITU-T F	ISUP reference: Rec Q.1912.5 [1], annex B.13
TSS reference:	ISUP-SIP /SS/T	P/		
SIP selection criteria:				
ISUP selection criteria:	PICS 5/6			
Test purpose:	SUS message (	SUT stop the temporar (ISDN subscriber initiated connection is cleared a	ed) was received.	more unicast media streams if a and in the PSTN.
SIP Parameter values:	SDP: a=se	ndonly or a=inactive	(suspended)	
ISUP Parameter values:	SUS: Susp	end/Resume indicator	ISDN subscriber ir	nitiated
Comments:	ISUP/BICC IAM ACM ANM SUS T2 expiry	→ ← ←	SUT	SIP INVITE 180 Ringing 200 OK INVITE INVITE
	REL RLC	<b>→</b>	<b>→</b>	BYE 200 OK BYE

# 6.3.2.4 Conference calling (CONF)

TP604001	SIP reference: RFC 3261 [6]		NGN reference: ES 283 027 [14], clause 7.4.14	
TSS reference:	ISUP-SIP/SS/CONF/	<u>.</u>		
SIP selection criteria:	PICS 8/2			
ISUP selection criteria:	PICS 5/10			
Test purpose:	Ensure that the SUT stop the temporarily sending one or more unicast media streams if a CPG message Generic notification indicator with the value GEN_NOT_VALUE was received due to the CONF supplementary service.  • If the media stream is either in state "sendonly" or "inactive" then: INVITE			
SIP Parameter values:	with the attribute line a_LINE_VA, or omitted attribute line, else: no mapping.  SDP: a= a_LINE_VA (see table 67) or a line is omitted			
ISUP Parameter values:	CPG: Generic notification = <b>GEN_NOT_VALUE</b>			
Comments:	ISUP/BICC IAM  ACM  ANM  ←  CPG  CPG  CPG  CPG  →	OUT	SIP INVITE 180 Ringing 200 OK INVITE INVITE INVITE	
	REL → RLC ←	<b>→</b>	BYE 200 OK BYE	

Table 67: Void

TP604003	SIP reference: RFC 3261 [6]	NGN reference:	7 / 1/		
TSS reference:	ES 283 027 [14], clause 7.4.14				
	ISUP-SIP/SS/CONF/				
SIP selection	PICS 8/2				
criteria:	7100 7/10				
ISUP selection criteria:	PICS 5/10				
Test purpose:	Ensure that the SUT stop the temporarily sending one or more unicast media streams if a CPG message Generic notification indicator with the value GEN_NOT_VALUE was received due to the CONF supplementary service.  • If the media stream is either in state "sendonly" or "inactive" then: INVITE with the attribute line a_LINE_VA, or omitted attribute line, else: no mapping.				
CID Donomotor					
SIP Parameter values:	SDP: a= a_LINE_VA (see table 68) or a line is omitted				
ISUP Parameter	CDC: Caparia patification - Captaranas actablished				
values:	CPG: Generic notification = Conference established				
	CPG: Generic notification = GEN_NOT_VALUE				
Comments:	ISUP/BICC SU				
	IAM -	→ INVITE			
	ACM ←	+ 180 Ringing			
	ANM ←	← 200 OK IN\	/IIE		
	CPG →	→ INVITE			
	CPG → INVITE CPG → INVITE				
	<b>7</b>	7 INVITE			
	REL →	→ BYE			
	RLC ←	200 OK BY	E		

Table 68: Void

TP604005	SIP	reference: RFC 3261 [6]	ITU-T Rec Q.19	reference: 112.5 [1], annex B.14 //Q.734	
TSS reference:	ISUP-SIP/S	SS/CONF/			
SIP selection					
criteria:					
ISUP selection	NOT PICS	5/10			
criteria:					
Test purpose:	Ensure that the SUT on receipt of a CPG message due to the CONF supplementary service, the Generic notification indicator with the value.  No mapping, no disrupting the SIP procedure.				
SIP Parameter values:	No mapping	No mapping			
ISUP Parameter		CPG: Generic notification = Conference established			
values:	CPG: Generic notification = isolated				
	CPG: Generic notification = reattached				
		Generic notification = Conference	disconnected		
Comments:	ISUP/BICC		_	SIP	
	IAM	<del>-</del>	<del>)</del>	INVITE	
	ACM	<del>-</del>	<del>(</del>	180 Ringing	
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE	
	CPG	<b>→</b>			
	CPG	<b>→</b>			
	CPG →				
	CPG	<del>)</del>			
	REL RLC	<b>→</b> ←	<b>→</b>	BYE 200 OK BYE	

# 6.3.2.5 Three Party service (3PTY)

TP605001	SIP reference: RFC 3261 [6]	NGN reference:			
TSS reference:	ES 283 027 [14], clause 7.4.15				
SIP selection					
criteria:	PICS 8/2				
	DIOC F/F AND DIOC F/40				
ISUP selection	PICS 5/5 AND PICS 5/18				
criteria:					
Test purpose:		sending one or more unicast media streams if a			
	CPG message Generic notification indicate				
	received due to the CONF supplementary	service.			
	If the media stream is either in state "sendonly" or "inactive" then: INVITE				
	with the attribute line a_LINE_VA, or omitted attribute line, else: no mapping.				
CID Donomotor					
SIP Parameter	SDP: $a = a_{LINE_{VA}}$ (see table 69) o	or a line is omitted			
values:					
ISUP Parameter	CPG: Generic notification = remote hold				
values:	CPG: Generic notification = <b>GEN_NO</b>	_			
Comments:	ISUP/BICC SU				
	IAM →	→ INVITE			
	ACM ←	← 180 Ringing			
	ANM <b>←</b>	← 200 OK INVITE			
	CPG → INVITE				
	CPG → INVITE				
	CPG → INVITE				
	REL →	→ BYE			
	RLC ←	200 OK BYE			

TP605002	SIP reference: RFC 3261 [6]	NGN reference:			
	ES 283 027 [14], clause 7.4.15				
TSS reference:	ISUP-SIP/SS/3PTY /				
SIP selection	PICS 8/1				
criteria:					
ISUP selection	PICS 5/5 AND PICS 5/18				
criteria:					
Test purpose:	Ensure that the SUT stop the temporarily sen-				
	CPG message Generic notification indicator v	with the value GEN_NOT_VALUE was			
	received due to the CONF supplementary ser	rvice in the ALERTING state.			
	If the media stream is either in state "sendonly" or "inactive" then: INVITE				
	with the attribute line a_LINE_VA, or omitted attribute line, else: no mapping.				
SIP Parameter	SDP: a= a_LINE_VA (see table 69) or a line is omitted				
values:					
ISUP Parameter	CPG: Generic notification = remote hold				
values:	CPG: Generic notification = <b>GEN_NOT_VALUE</b>				
Comments:	ISUP/BICC SUT	SIP			
	IAM →	→ INVITE			
	ACM <b>←</b>	← 180 Ringing			
	000	1100475			
	CPG →	→ UPDATE			
	CPG →	→ UPDATE			
	CPG →	→ UPDATE			
	REL →	<b>→</b> BYF			
		2			
	RLC ←	200 OK BYE			

Table 69

Values for test purpose TP605001, TP605002				
	$CPG {\to}$	INVITE/UPDATE→		
Generic notification		SDP attribute line		
	GEN_NOT_VALUE	a_LINE_VA		
VA_01	Conference established	sendrecv, or recvonly		
VA_02	Conference disconnected	sendrecv or recvonly		

TP605003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.15 2.7/Q.734		
TSS reference:	ISUP-SIP/SS/3PTY/			
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 5/18			
Test purpose:	Ensure that the SUT on receipt of a CPG message due to the 3PTY supplementary service, the Generic notification indicator with the value.  No mapping, no disrupting the SIP procedure.			
SIP Parameter	No mapping			
values:				
ISUP Parameter	CPG: Generic notification = remote hold			
values:	CPG: Generic notification = Conference established CPG: Generic notification = Conference disconnected			
Comments:	ISUP/BICC IAM  ACM  ANM  CPG  CPG  CPG  CPG  REL  RLC	SIP INVITE  180 Ringing  200 OK INVITE   → BYE 200 OK BYE		

## 6.3.2.6 Connected line identification (COL)

TP606001	SIP reference	: RFC 3261 [6]		ISUP reference:
			ITU-T Re	c Q.1912.5 [1], annex B.2
TSS reference:	ISUP-SIP/SS//COL/			
SIP selection				
criteria:				
ISUP selection criteria:				
Test purpose:		f the IAM is received wated, continue without of		
SIP Parameter	No mapping			
values:	-			
ISUP Parameter				
values:				
	ISUP	\$	SUT	SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
			<b>→</b>	ACK
		Conv	ersation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>	<b>←</b>	200 OK BYE
	1			<del></del>

### 6.3.2.7 Sub-addressing (SUB)

TP607001	SIP refere	ence: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.5	
TSS reference:	ISUP-SIP/SS/ SU	В/		
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:		UT if the IAM is received widisrupting the SIP or ISUP s		calling sub-address,
SIP Parameter values:	No mapping			
ISUP Parameter values:				
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>		200 OK BYE

### 6.3.2.8 Closed user group (CUG)

TP608001	SIP reference	e: RFC 3261 [6]	ISUP ref ITU-T Rec Q.1912	
TSS reference:	ISUP-SIP/SS/CUG/		110-1 NCC Q.1312	.o [1], aimex b.10
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	indicator coded as "C	if an IAM is received with <b>:UG call with outgoing</b> a Ion CUG call" or Optiona is not disrupted.	access" and CUG inter	lock code or CUG call
SIP Parameter values:	No mapping			
ISUP Parameter values:				
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	+		200 OK BYE

TP608002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.16
TSS reference:	ISUP-SIP/SS/CUG/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if an IAM is received will indicator coded as "CUG call without outgot is sent. No INVITE is sent into the SIP netwo	ing access" and CUG interlock code, a REL
SIP Parameter values:	No action	
ISUP Parameter values:	REL: Cause #29	
Comments:	ISUP/BICC SUT IAM → REL ← RLC	SIP

#### 6.3.2.9 Call diversion (CDIV)

TP609001	SIP reference	: RFC 3261 [6]	ISUP refe ITU-T Rec Q.1912.5 and E	[1], annexes B.6	
TSS reference:	ISUP-SIP/SS/ CDIV /				
SIP selection					
criteria:					
ISUP selection					
criteria:					
Test purpose:	Ensure that the SUT if the IAM is received with <b>Redirecting number, original called number and redirection information</b> , continue without disrupting the SIP or ISUP				
		ion information, contin	ue without disrupting the	31P 01 13UP	
OID Devenue (ex	signalling procedure.				
SIP Parameter	No mapping				
values:					
ISUP Parameter	IAM: Redirecting	ı number, Original called	I number, Redirection info	ormation	
values:					
Comments:	ISUP/BICC	SUT		SIP	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<del>-</del>	<b>←</b>	180 Ringing	
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE	
		Conversation	Conversation		
	REL	<b>→</b>	<b>→</b>	BYE	
	RLC	<b>←</b>		200 OK BYE	

#### 6.3.2.10 User to user signalling (UUS)

TP610001	SIP reference:	RFC 3261 [6]	ISUP refo ITU-T Rec Q.1912 1.1.7/0	.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /			
SIP selection criteria:				
ISUP selection criteria:				
Test purpose:	service 1 request retu	rns a User-to-user indi	h <b>User-to-user informa</b> cator in the ACM "UUI d SIP or ISUP signalling pi	iscarded by the
SIP Parameter values:	No mapping	· ·		
ISUP Parameter values:		cator "UUI discarded by BCI: "Interworking enco	the network", Service 1 ountered".	I response "No
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<del>(</del>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>		200 OK BYE

TP610002	SIP referen	ce: RFC 3261 [6]	ISUP ref ITU-T Rec Q.1912 1.1.7/	2.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS	/		
SIP selection				
criteria:				
ISUP selection	PICS 11/1 AND PIC	S 11/2		
criteria:				
Test purpose:	Ensure that the SUT if the IAM is received with an <b>explicit service 1 request "Not essential"</b> returns a User-to-user indicator in the ACM "Service 1 not provided" and continue without disrupting the SIP or ISUP signalling procedure.			
SIP Parameter values:	No mapping	•		
ISUP Parameter values:	ACM: User-to-i provided	ndicator "UUI discarded by	y the network", Service	1 response "Nt
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>		200 OK BYE

TP610003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21 1.1.7/Q.737
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	PICS 11/1 AND PICS 11/2	
Test purpose:		ed with an <b>explicit service 1 request</b> "essential" agnostics containing the user-to-user indicator
SIP Parameter values:	No action	
ISUP Parameter values:	REL: cause #29, diagnostics value	0x2a
Comments:	ISUP/BICC IAM → REL RLC →	SUT SIP

TP610004	SIP refere	nce: RFC 3261 [6]	ITU-T Rec Q.1912	ference: 2.5 [1], annex B.21 Q.737
TSS reference:	ISUP-SIP/SS/ UUS	6/		
SIP selection criteria:				
ISUP selection criteria:	PICS 11/1 AND PI	CS 11/2		
Test purpose:	Ensure that the SUT if the IAM is received with an <b>explicit service 2 request</b> "Not essential" returns a User-to-user indicator in the ACM "Service 2 not provided" and continue without disrupting the SIP or ISUP signalling procedure.			
SIP Parameter values:	No mapping			
ISUP Parameter values:	ACM: User-to-	indicator Service 2 respons	se "Not provided"	
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>		200 OK BYE

TP610005	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21 1.2.7/Q.737
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	PICS 11/1 AND PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received verturns a REL with cause #29 and an diagnoral parameter name.	with an <b>explicit service 2 request</b> "essential" ostics containing the user-to-user indicator
SIP Parameter values:	No action	
ISUP Parameter values:	REL: cause #29, diagnostics value 0x2	2a
Comments:	ISUP/BICC SUT IAM → REL ← RLC →	SIP

TP610006	SIP referer	ce: RFC 3261 [6]	ITU-T Rec Q.1912	ference: 2.5 [1], annex B.21 /Q.737
TSS reference:	ISUP-SIP/SS/ UUS	5/		
SIP selection criteria:				
ISUP selection criteria:	PICS 11/1 AND PI	CS 11/2		
Test purpose:	Ensure that the SUT if the IAM is received with an <b>explicit service 3 request</b> "Not essential" returns a User-to-user indicator in the ACM "Service 1 not provided" and continue without disrupting the SIP or ISUP signalling procedure.			
SIP Parameter values:	No mapping			
ISUP Parameter values:	ACM: User-to-	indicator, Service 3 respor	se "Not provided"	
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>		200 OK BYE

TP610007	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21 1.3.7.1/Q.737
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	PICS 11/1 AND PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received w returns a REL with cause #29 and an diagno parameter name.	ith an <b>explicit service 3 request</b> "essential" ostics containing the user-to-user indicator
SIP Parameter values:	No action	
ISUP Parameter values:	REL: cause #29, diagnostics value 0x2	а
Comments:	ISUP/BICC SUT IAM → REL ← RLC →	SIP

TP610008	SIP referen	ce: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21 1.3.7.2/Q.737	
TSS reference:	ISUP-SIP/SS/ UUS	/		
SIP selection criteria:				
ISUP selection criteria:	PICS 11/1 AND PIC	CS 11/2		
Test purpose:	Ensure that the SUT if the FAR is received with an <b>explicit service 3 request</b> "Not essential" returns a FRJ with cause #29.			
SIP Parameter values:	No action			
ISUP Parameter values:	FRJ: User-to-u	user indicator = "Service 3	not provided"	
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	FAR	<b>→</b>		
	FRJ	<b>←</b>		
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	+		200 OK BYE

TP610009	SIP reference	e: RFC 3261 [6]	ITU-T Rec Q.1912	ference: 2.5 [1], annex B.21 2.2/Q.737
TSS reference:	ISUP-SIP/SS/ UUS /			
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 11/2			
Test purpose:		if the IAM is received wit ithout disrupting the SIP		
SIP Parameter values:	No mapping			
ISUP Parameter values:				
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<del>(</del>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<del>(</del>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	+		200 OK BYE

TP610010	SIP reference: RFC 3261 [6] ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.2 1.1.5.2.5.2.2/Q.737		5 [1], annex B.21	
TSS reference:	ISUP-SIP/SS/ UUS	S /		
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 11/2			
Test purpose:		JT if the IAM is received wit srupting the SIP or ISUP si		
SIP Parameter values:	No action			
ISUP Parameter values:				
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>		200 OK BYE

TP610011	SIP reference: RFC 3261 [6] ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.2 1.2.5.2.5.2.1/Q.737		912.5 [1], annex B.21	
TSS reference:	ISUP-SIP/SS/ UUS	/		
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 11/2			
Test purpose:			ed with an <b>explicit servic</b> e SIP or ISUP signalling p	
SIP Parameter values:	No mapping			
ISUP Parameter values:				
Comments:	ISUP/BICC IAM ACM ANM REL RLC	S  +  Conversation +	UT  → ← Conversation →	SIP INVITE 180 Ringing 200 OK INVITE n BYE 200 OK BYE

TP610012	SIP reference: RFC 3261 [6] ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21 1.2.5.2.5.2.1/Q.737		2.5 [1], annex B.21	
TSS reference:	ISUP-SIP/SS/ UUS	/		
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 11/2			
Test purpose:		Γ if the IAM is received wit rupting the SIP or ISUP s		
SIP Parameter values:	No action			
ISUP Parameter values:				
Comments:	ISUP/BICC IAM ACM ANM REL RLC	SUT   Conversation	→ ← ← Conversation →	SIP INVITE 180 Ringing 200 OK INVITE BYE 200 OK BYE

TP610013	SIP referen	ce: RFC 3261 [6]	ITU-T Rec	SUP reference: Q.1912.5 [1], annex B.21 3.5.2.5.2.1/Q.737
TSS reference:	ISUP-SIP/SS/ UUS	/		
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 11/2			
Test purpose:			-	ervice 3 request "Not ling procedure. No response
SIP Parameter values:	No mapping			
ISUP Parameter values:				
Comments:	ISUP/BICC IAM ACM ANM REL RLC	→ ← ← Conversation →	SUT → ← ← Conver →	SIP INVITE 180 Ringing 200 OK INVITE sation BYE 200 OK BYE

TP610014	SIP reference: RFC 3261 [6] ISUP reference: ITU-T Rec Q.1912.5 [1], ann 1.3.5.2.5.2.1/Q.737		2.5 [1], annex B.21	
TSS reference:	ISUP-SIP/SS/ UUS /	1	1.3.3.2.3.2	2.1/4.737
SIP selection criteria:				
ISUP selection criteria:	NOT PICS 11/2			
Test purpose:		if the IAM is received with the trupting the SIP or ISUP since		
SIP Parameter values:	No action			
ISUP Parameter values:				
Comments:	ISUP/BICC IAM ACM ANM REL RLC	SUT  + Conversation +	→ ← ← Conversation →	SIP INVITE 180 Ringing 200 OK INVITE  BYE 200 OK BYE

TP610015	SIP reference	ce: RFC 3261 [6]	ISUP refe	erence:
			ITU-T Rec Q.1912	.5 [1], annex B.21
			1.3.5.2.5.2	.1/Q.737
TSS reference:	ISUP-SIP/SS/ UUS	/		
SIP selection				
criteria:				
ISUP selection	NOT PICS 11/1 OR	NOT PICS 11/3		
criteria:				
Test purpose:		if the FAR is received wit		
		without disrupting the SIP	or ISUP signalling proce	edure. No response
	to this request.			
SIP Parameter	No action			
values:				
ISUP Parameter				
values:				
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	FAR	<b>→</b>		
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	+		200 OK BYE

### 6.3.2.11 Explicit call transfer (ECT)

TP611001	SIP reference:	RFC 3261 [6]	ISUP ref	erence:
			ITU-T Rec Q.1912	2.5 [1], annex B.8
TSS reference:	ISUP-SIP/SS/ECT/			
SIP selection				
criteria:				
ISUP selection	PICS 12/1			
criteria:				
Test purpose:			ived returns a LOP (res	
	indication "insufficient i	nformation" continue w	ithout disrupting the SIF	o signalling
	procedure.			
		a FAC is received cont	inue without disrupting t	the SIP signalling
OID D	procedure.			
SIP Parameter	No mapping	No mapping		
values:				
ISUP Parameter	LOP: Response "i	nsufficient information"		
values:				
Comments:	ISUP/BICC	SUT	_	SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<del>(</del>	<del>(</del>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
	1.00	Conversation	Conversation	
	LOP	<b>→</b>		
	LOP FAC	<b>←</b> →		
	FAC	Conversation	Conversation	
	REL	Conversation	Conversation	BYF
	RLC	<del>7</del> ←	7	200 OK BYE
	INLO	<b>T</b>		ZUU ON DIE

TP611002	SIP reference	e: RFC 3261 [6]	ISUP refe	erence:
			ITU-T Rec Q.1912	2.5 [1], annex B.8
TSS reference:	ISUP-SIP/SS/ECT/			
SIP selection				
criteria:				
ISUP selection	NO PICS 12/1			
criteria:				
Test purpose:		if a LOP(request) is rece	ived continue without dis	srupting the SIP
	signalling procedure.			
		if a FAC is received cont	inue without disrupting t	he SIP signalling
	procedure.			
SIP Parameter	No mapping			
values:				
ISUP Parameter				
values:				
Comments:	ISUP/BICC	SUT		SIP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE
		Conversation	Conversation	
	LOP	<b>→</b>		
	FAC	<b>→</b>		
		Conversation	Conversation	
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<del>-</del>		200 OK BYE

# Annex A (informative): Bibliography

- ITU-T Recommendation Q.731.7 (1997): "Stage 3 description for number identification supplementary services using Signalling System No. 7: Malicious call identification (MCID)".
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## History

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