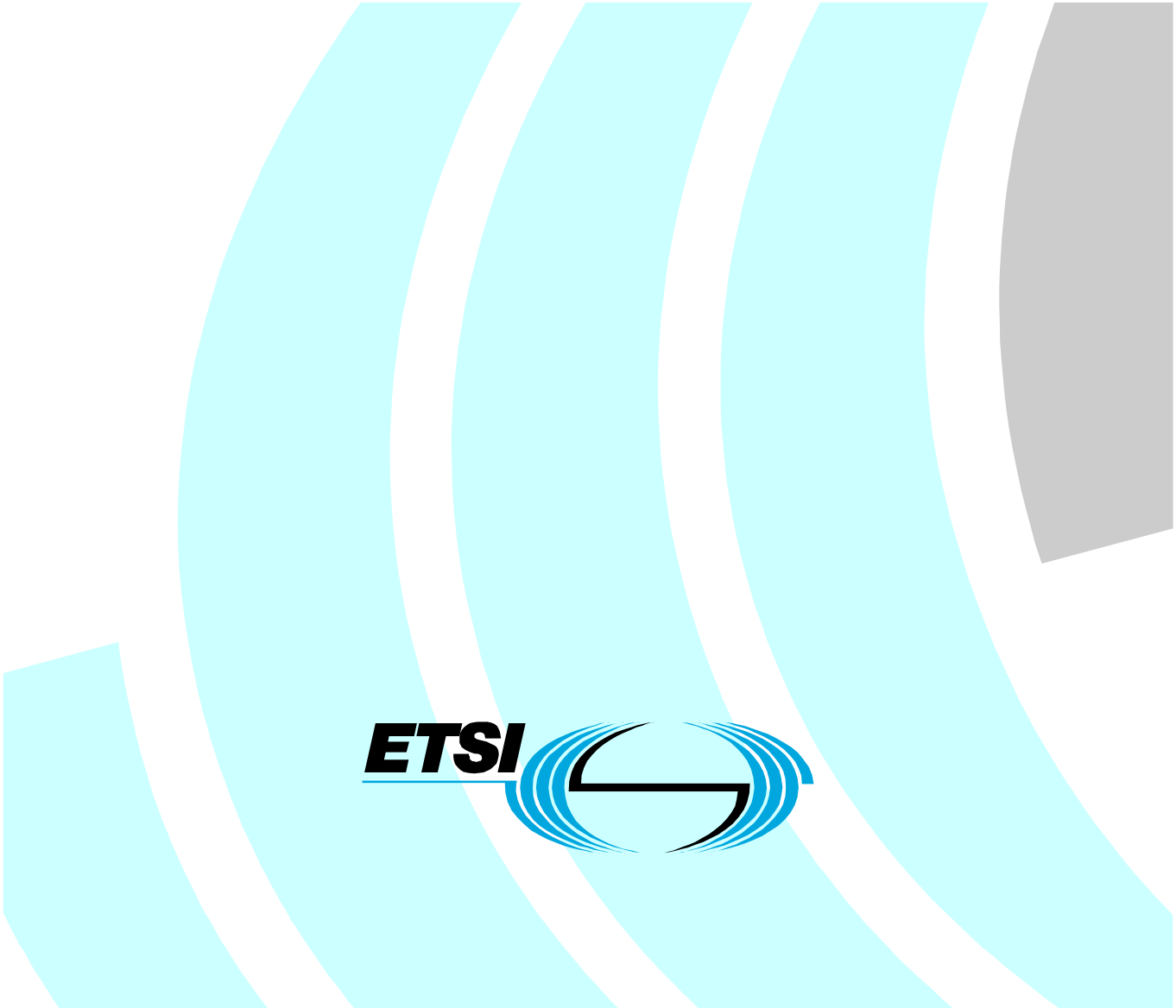
ETSI TS 186 002-2 V1.1.1 (2006-02)

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
DTS/TISPAN-06014-1-NGN

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

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Contents

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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

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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

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

[2] ETSI EN 383 001: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control (BICC) Protocol or ISDN User Part (ISUP) [ITU-T Recommendation Q.1912.5, modified]".

[3] ITU-T 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): "Conformance testing methodology and framework - Part 1: General Concepts".

[9] ISO/IEC 9646-3 (1992): "Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation".

[10] ISO/IEC 9646-7 (1994): "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".

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 ISDN layer 3 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
ATM	Abstract Test Method
ATP	Access Transport Parameter
ATS	Abstract Test Suite
BCI	Backward Call Indicators
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 Rec 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

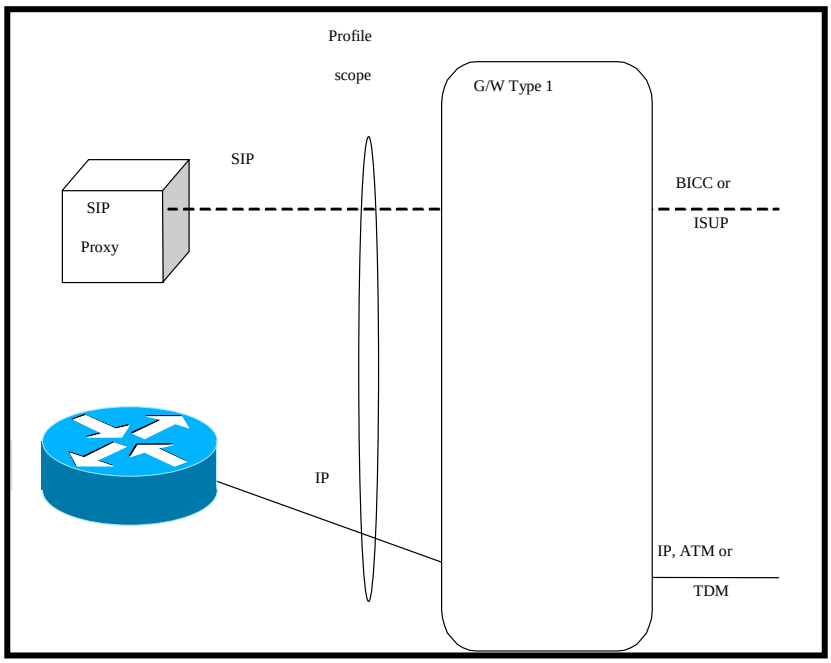

Figure 1: Profile Scope for SIP Interworking with BICC/ISUP with a Type 1 Gateway

4.1.2 Profile B

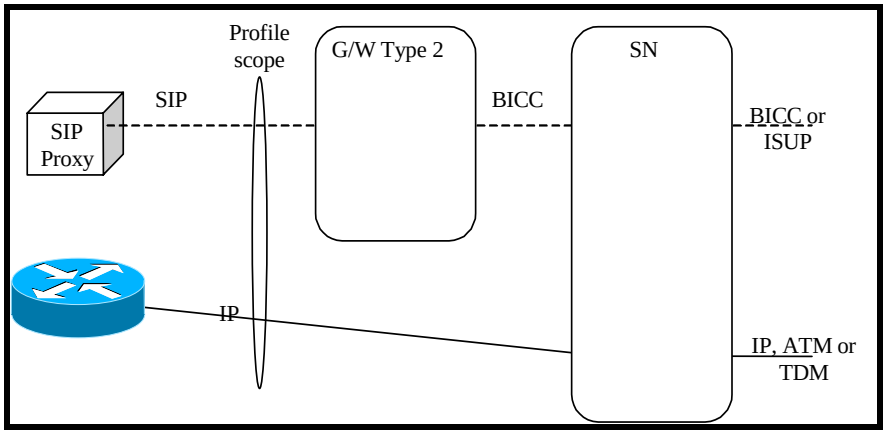

Figure 2: Profile Scope for SIP Interworking with BICC/ISUP with a Type 2 Gateway

5 Test Suite Structure (TSS)

The Test Suite Structure is in close alignment with ITU-T Rec 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 message	109xxx
	Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented	1010xxx
	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)

ISUP-SIP Basic 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 the indication hardware failure oriented	309xxx

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 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)

ISUP-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 reference to the requirement in the DSS1 layer 3 Recommendation, which led to the TP;
ISUP reference	the reference to the requirement in the interworking specification and the requirement in the SIP-UP Recommendation, which led to the TP.

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: 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 criteria:	PICS 4/6 AND NOT PICS 4/7	
ISUP selection criteria:		
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an 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.	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2	
ISUP Parameter values:		
Comments:	SIP SUT ISUP/BICC INVITE → 183 Session Progress ← PRACK → → IAM 200 OK PRACK ←	

TP101002	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 Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/4 AND NOT PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an 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 whereby the Continuity indicator of the Nature of Connection Indicators parameter shall be set to "*COT to be expected*".	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2; UPDATE SDP3; 200 OK UPDATE SDP 4	
ISUP Parameter values:	IAM; Continuity Indicator: COT to be expected COT; Continuity Indicator: continuity	
Comments:	SIP SUT BICC INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE(SDP) → → 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 Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP** offer and reliable provisional responses are supported: • the SUT shall immediately send an 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 whereby the Continuity check indicator in the Nature of Connection Indicators parameter is set to "continuity check required on this circuit".	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2; UPDATE SDP3; 200 OK UPDATE SDP 4	
ISUP Parameter values:	IAM; Continuity Indicator: continuity check required on this circuit 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 Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	NOT PICS 1/6 AND NOT PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an SDP offer including a media description with A-law (PCMA), but not µ-law (PCMU) within a 183 Session Progress message; • sending of the IAM shall be deferred until all preconditions have been met.	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2; UPDATE SDP3; 200 OK UPDATE SDP 4	
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 Address message (IAM)/	
SIP selection criteria:	PICS 4/7	
ISUP selection criteria:	PICS 1/6	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an SDP offer including a media description with both A-law (PCMA) and µ-law (PCMU) included and µ-law (PCMU) shall take precedence over A-law (PCMA) within a 183 Session Progress message; • sends a IAM message upon receipt of the SDP answer with media description.	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2	
ISUP Parameter values:	IAM;	
Comments:	SIP SUT ISUP INVITE → 183 Session Progress ← PRACK → → 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 Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/4 AND PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an SDP offer including a media description with both A-law (PCMA) and µ-law (PCMU) included and µ-law (PCMU) shall take precedence over A-law (PCMA) within a 183 Session 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 values:	SIP: 183 SDP1; PRACK SDP2	
ISUP Parameter values:	IAM Continuity Indicator: COT to be expected; 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]	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 Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/5 AND PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an SDP offer including a media description with both A-law (PCMA) and µ-law (PCMU) included and µ-law (PCMU) shall take precedence over A-law (PCMA) 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".	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2	
ISUP Parameter values:	IAM Continuity Indicator: continuity check required on this circuit; COT Continuity Indicator: continuity check successful;	
Comments:	SIP SUT ISUP INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → → 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 Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/6 AND NOT PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **without an SDP offer** and reliable provisional responses are supported: • the SUT shall immediately send an SDP offer including a media description with both A-law (PCMA) and μ-law (PCMU) included and μ-law (PCMU) shall take precedence over A-law (PCMA) within a 183 Session Progress message. • sending of the IAM shall be deferred until all preconditions have been met.	
SIP Parameter values:	SIP: 183 SDP1; PRACK SDP2	
ISUP Parameter values:	IAM;	
Comments:	SIP SUT ISUP INVITE → 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → 200 OK UPDATE ← → IAM	

TP101009	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 Address message (IAM)/	
SIP selection criteria:	NOT PICS 4/6	
ISUP selection criteria:	PICS 1/6	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**. • the SUT shall delete μ-law (PCMU), if present, from the media description that it will send back in the SDP answer; • the SUT shall immediately send out the IAM.	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0, 200 OK: Audio RTP/AVP 8;	
ISUP Parameter values:	IAM USI: A-law or absent;	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101010	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,2ai)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/4 AND NOT PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**. • the SUT shall delete µ-law (PCMU), if present, from the media description that it will send back in the SDP answer; • the IAM shall be sent out immediately on the BICC side with the coding of the Nature of Connection Indicators parameter: "*COT to be expected*".	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0, 200 OK: Audio RTP/AVP 8;	
ISUP Parameter values:	IAM Continuity Indicator: COT to be expected, USI: A-law or absent; COT; Continuity Indicator: continuity;	
Comments:	SIP SUT ISUP INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → → COT 200 OK UPDATE ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,2aii)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**. • the SUT shall delete µ-law (PCMU), if present, from the media description that it will send back in the SDP answer; • the IAM shall be sent out immediately on the ISUP side with the the Continuity check indicator "*continuity check required on this circuit*".	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0, 200 OK: Audio RTP/AVP 8;	
ISUP Parameter values:	IAM Continuity Indicator: continuity check required on this circuit, USI: A-law or absent COT Continuity Indicator: continuity check successful;	
Comments:	SIP SUT ISUP INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → → COT 200 OK UPDATE ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,2b)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	NOT PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**. • the SUT shall delete µ-law (PCMU), if present, from the media description that it will send back in the SDP answer; • the shall be deferred until all preconditions have been met.	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0, 200 OK: Audio RTP/AVP 8	
ISUP Parameter values:	IAM USI: A-law or absent	
Comments:	SIP — SUT — ISUP INVITE → 183 session Progress ← PRACK → 200 OK PRACK ← UPDATE → → IAM 200 OK UPDATE ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101013	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 Address message (IAM)/	
SIP selection criteria:	NOT 4/7	
ISUP selection criteria:	PICS 1/6	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**: • the SUT shall delete A-law (PCMA) if both A-law (PCMA) and µ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer; • the SUT shall immediately send out the IAM.	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0 8, 200 OK: Audio RTP/AVP 0; complete called party information	
ISUP Parameter values:	IAM USI: µ-law	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101014	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,2ai)
TSS reference:		
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/4 AND PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**: • the SUT shall delete A-law (PCMA) if both A-law (PCMA) and µ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer; • the IAM shall be sent out immediately on the BICC side with the coding of the Nature of Connection Indicators parameter: "*COT to be expected*".	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0 8, 200 OK: Audio RTP/AVP 0	
ISUP Parameter values:	IAM USI: µ-law	
Comments:	SIP → SUT → ISUP INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → → COT 200 OK UPDATE ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101015	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,2aii)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/5 AND PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**: • the SUT shall delete A-law (PCMA) if both A-law (PCMA) and µ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer; • the IAM shall be sent out immediately on the ISUP side with the the Continuity check indicator "*continuity check required on this circuit*".	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0 8, 200 OK: Audio RTP/AVP 0	
ISUP Parameter values:	IAM USI: µ-law	
Comments:	SIP — SUT — ISUP INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → → COT 200 OK UPDATE ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101016	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.2 (i,2b)
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/6 AND PICS 4/1	
Test purpose:	Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, **with an SDP offer**. • the SUT shall delete A-law (PCMA) if both A-law (PCMA) and µ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer; • the IAM shall be deferred until all preconditions have been met.	
SIP Parameter values:	SIP INVITE: Audio RTP/AVP 0 8, 200 OK: Audio RTP/AVP 0;	
ISUP Parameter values:	IAM USI: µ-law;	
Comments:	SIP — SUT — ISUP INVITE → PRACK → 200 OK PRACK ← UPDATE → → IAM 200 OK UPDATE ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP1010017_VA_1	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 Address message (IAM)/	
SIP selection criteria:	• PICS 1/2	
ISUP selection criteria:	NOT PICS 1/9	
Test purpose:	Ensure that the SUT on receipt of an INVITE 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 followed: • Satellite indicator set to: "One satellite circuit in the connection" Continuity check indicator set to: NCI_CONT_CHECK • Echo control device indicator set to: NCI_ECHO_CTRL_IND • the appropriate values of the **FCI** parameter are determined based on analysis of various parameters (from signalling, internal states or configuration) at the I-IWU.	
SIP Parameter values:		
ISUP Parameter values:	**Nature of Connection Indicators (NCI):** Satellite indicator set to: "One satellite circuit in the connection" Continuity check indicator set to: NCI_CONT_CHECK (PIXIT) Echo control device indicator set to: NCI_ECHO_CTRL_IND (PIXIT) **Forward Call Indicators (FCI):** Interworking indicator: FCI_INTERW_I (PIXIT) ISDN user part indicator: FCI_USER_PART _I (PIXIT) ISDN access indicator: FCI_ACESS_IND (PIXIT) ISDN user part preference indicator: FCI_ISDN_USER_PART_I (PIXIT) National/international call indicator set to FCI_NI_CALL_IND (PIXIT) End-to-end method available set to FCI_EE_METHOD (PIXIT) End-to-End information indicator set to FCI_EE_INFO_IND (PIXIT) SCCP method indicator set to FCI_SCCP_IND (PIXIT)	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP1010017_VA_2	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 Address message (IAM)/	
SIP selection criteria:	PICS 1/2	
ISUP selection criteria:	PICS 1/9	
Test purpose:	Ensure that the SUT on receipt of an INVITE 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 followed: - Satellite indicator set to: "One satellite circuit in the connection" Continuity check indicator set to: NCI_CONT_CHECK. - Echo control device indicator set to: NCI_ECHO_CTRL_IND. - the **Forward call indicator** is encoded as followed Interworking indicator: Interworking encounterd 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 acces non-ISDN.	
SIP Parameter values:		
ISUP Parameter values:	**Nature of Connection Indicators (NCI):** Satellite indicator set to: "One satellite circuit in the connection" Continuity check indicator set to: NCI_CONT_CHECK (PIXIT) Echo control device indicator set to: NCI_ECHO_CTRL_IND (PIXIT) **Forward Call Indicators (FCI):** Interworking indicator: interworking encounterd ISDN user part indicator: ISDN user part/BICC not used all the way ISDN access indicator: originating access non-ISDN ISDN user part preference indicator: ISDN user part/BICC not required all the way National/international call indicator set to FCI_NI_CALL_IND (PIXIT) End-to-end method available set to FCI_EE_METHOD (PIXIT) End-to-End information indicator set to FCI_EE_INFO_IND (PIXIT) SCCP method indicator set to FCI_SCCP_IND (PIXIT)	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP1010018	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 Address message (IAM)/	
SIP selection criteria:	• PICS 1/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of an INVITE 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 followed: - Satellite indicator set to: No satellite circuit in the connection"Continuity check indicator set to: NCI_CONT_CHECK. - Echo control device indicator set to: "Outgoing echo control device included". - the **Forward call indicator** is encoded as followed Interworking indicator: Interworking encounterd 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 acces non-ISDN	
SIP Parameter values:		
ISUP Parameter values:	**Nature of Connection Indicators (NCI):** Satellite indicator set to: "NO satellite circuit in the connection" Continuity check indicator set to: NCI_CONT_CHECK (PIXIT) Echo control device indicator set to: "Outgoing echo control device included" **Forward Call Indicators (FCI):** Interworking indicator: interworking encounterd ISDN user part indicator: ISDN user part/BICC not used all the way ISDN access indicator: originating access non-ISDN ISDN user part preference indicator: ISDN user part/BICC not required all the way National/international call indicator set to FCI_NI_CALL_IND (PIXIT) End-to-end method available set to FCI_EE_METHOD (PIXIT) End-to-End information indicator set to FCI_EE_INFO_IND (PIXIT) SCCP method indicator set to FCI_SCCP_IND (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101019	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.5
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	Based on table 1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of an INVITE message containing the media description defined with the "a =" "b =" and "m=" lines set to a_b_m_LINE_VALUE: • sends an IAM message, with the Transmission Medium Requirement (TMR) parameter set to **TMR_VALUE**.	
SIP Parameter values:	INVITE; a_b_m_LINE_VALUE	
ISUP Parameter values:	IAM; TMR: ISUP_TMR	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

Table 1

Values for test purposes TP101019						
	a_b_m_LINE_VALUE					
	m= line			**b= line**	**a= line**	**TMR_VALUE**
test purposes	<media>	<transport>	<fmt-list>	<modifier>:<bandwidth-value>	rtpmap:<dynamic-PT> <encoding name>/<clock rate>[/encoding parameters>	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	*"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	*"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)	*"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: <bandwidth value> for <modifier> of AS is evaluated to be B kbit/s. NOTE 2: CLEARMODE has been standardized.						

TP101020	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.5
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	Based on table 2	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of an INVITE message, with the media description defined with the "a = " "b =" and "m=" lines set to a_b_m_LINE_VALUE: • sends an IAM message, with the **user information parameter** set to **USI_VALUE**	
SIP Parameter values:	INVITE: a_b_m_LINE_VALUE	
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

Table 2

Values for test purposes TP101020							
	a_b_m_LINE_VALUE						
	m= line			b= line	a= line	USI_VALUE	
test purposes	<media>	<transport>	<fmt-list>	<modifier>:<bandwidth-value>	rtpmap:<dynamic-PT> <encoding name>/<clock rate>[/encoding parameters>	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	*"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	*"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)	*"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"*	
NOTE 1: <bandwidth value> for <modifier> of AS is evaluated to be B kbit/s. NOTE 2: CLEARMODE has been standardized.							

TP101021	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.5
TSS reference:	SIP-ISUP/Basic call/ Sending of the Initial Address message (IAM)/	
SIP selection criteria:	Based on table 3	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of an INVITE message, with the media description defined with the "a =" "b =" and "m=" lines to lines set to a_b_m_LINE_VALUE: • sends an IAM message with the **Access transport parameter** containing the **HLC** information element.	
SIP Parameter values:	INVITE: a_b_m_LINE_VALUE	
ISUP Parameter values:	IAM; **Access transport parameter HLC**: HLC_VALUE	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

Table 3

Values for test purposes TP101021						
	M= line			**b= line**	**a= line**	**HLC parameter HLC_VALUE**
Test purposes	<media>	<transport>	<fmt-list>	<modifier>:<bandwidth-value>	rtpmap:<dynamic-PT> <encoding name>/<clock rate>[/encoding parameters>	HLC_VALUE
				see note 1		
VA_01	Audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	See note 2
VA_02	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap:<dynamic-PT> PCMU/8000	See note 2
VA_03	Audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	See note 2
VA_04	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap:<dynamic-PT> PCMA/8000	See note 2
VA_05	Image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38	*"Facsímile Group 2/3"*
VA_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.						

TP101022	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 Address message (IAM)/	
SIP selection criteria:		
ISUP selection criteria:	PICS 4/5	
Test purpose:	Ensure that the SUT for Profiles A and B the I-IWU shall derive the Hop Counter parameter value from the Max-Forwards header field value by applying a factor. The Hop Counter for a given message should never increase and should decrease by at least 1 with each successive visit to an IWU, regardless of intervening interworking, and similarly for Max-Forwards in the SIP domain.	
SIP Parameter values:		
ISUP Parameter values:	IAM: Hop Counter parameter value	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM The initial and successively mapped values of Hop Counter should be large enough to accommodate the maximum number of hops that might be expected of a validly routed call.	

TP101023	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 Address message (IAM)/	
SIP selection criteria:	PICS 1/9	
ISUP selection criteria:	NOT PICS 1/7	
Test purpose:	Ensure that the SUT on receipt of an INVITE message with a Called party number contained in the userinfo component of the Request-URI: • Nature of address indicator: Analyse the information contained in received URI with user=phone, and if it is in the format: **+CC NDC SN** where CC is the country code of the network in which the next hop terminates, then set Nature of Address indicator to "**National (significant) number**", remove "+CC" and use the remaining digits to fill the Address signals". • Internal Network Number Indicator: routing to internal network number not allowed. • Numbering plan Indicator: 001 ISDN (Telephony) numbering plan. • Address Signals: **NDC SN**.	
SIP Parameter values:		
ISUP Parameter values:	IAM: Called party number	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

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 Address message (IAM)/	
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 Called party number contained in the userinfo component of the Request-URI: • Nature of address indicator: Analyse the information contained in received URI with user=phone, and if it is in the format: **+CC NDC SN** where CC is not the country code of the network in which the next hop terminates, then set Nature of Address indicator to "**International number**", remove "+" and use the remaining digits to fill the Address signals. • Internal Network Number Indicator: routing to internal network number not allowed. • Numbering plan Indicator: 001 ISDN (Telephony) numbering plan. • Address Signals **CC NDC SN**.	
SIP Parameter values:		
ISUP Parameter values:	IAM: Called party number	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM BYE → → REL 200 OK BYE ← ← 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 Address message (IAM)/	
SIP selection criteria:	NOT PICS 1/9	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of an INVITE message with a Called party number contained in the userinfo component of the Request-URI: • Internal Network Number Indicator: routing to internal network number not allowed. • Numbering plan Indicator: 001 ISDN (Telephony) numbering plan. • Address Signals.	
SIP Parameter values:		
ISUP Parameter values:	IAM: Called party number	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP101026	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 Address message (IAM)/			
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 values:	Offer: m=audio 4711 RTP/AVP 0 8 Answer: m=audio 4712 RTP/AVP 8 0			
ISUP Parameter values:				
Comments:	SIP	SUT		ISUP
	INVITE	→	→	IAM
	180 Ringing	←	←	ACM
	200 OK INVITE	←	←	ANM
		Conversation	Conversation	
	BYE	→	→	REL
	200 OK BYE	←	←	RLC

TP101027	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 Address message (IAM)/			
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 a-Law and no µ-Law, then independent the normal offer answer procedures apply: • the G.711 a-law codec shall be returned in the SDP answer.			
SIP Parameter values:	Offer: m=audio 4711 RTP/AVP 8 Answer: m=audio 4711 RTP/AVP 8			
ISUP Parameter values:				
Comments:	SIP	SUT		ISUP
	INVITE	→	→	IAM
	180 Ringing	←	←	ACM
	200 OK INVITE	←	←	ANM
		Conversation	Conversation	
	BYE	→	→	REL
	200 OK BYE	←	←	RLC

TP101028	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 Address message (IAM)/	
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 without a-law codec: • the u-law codec shall be rejected.	
SIP Parameter values:	Offer: m=audio 4711 RTP/AVP 0 Answer: m=audio 0 RTP/AVP 0	
ISUP Parameter values:		
Comments:	SIP SUT ISUP CASE A INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM	

TP101029	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 Address message (IAM)/	
SIP selection criteria:	PICS 1/9 AND PICS 4/24	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams and based on operator policy then: • the call is refused with a 415 Unsupported media type response.	
SIP Parameter values:	Offer: m=audio 4711 RTP/AVP 8 m= audio 4712 RTP/AVP 8	
ISUP Parameter values:		
Comments:	SIP SUT ISUP CASE A INVITE → 415 Unsupported media type ← ACK →	

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 Address message (IAM)/	
SIP selection criteria:	PICS 1/9 AND NOT PICS 4/24	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams and based on operator policy then: • if the SDP offer contains one or more audio type media streams and one or more non-audio type media stream, only the audio streams shall be considered; the other streams shall be rejected; • if the SDP offer contains several audio type media streams, the IWU shall only consider one, and reject the other streams.	
SIP Parameter values:	Offer: m=audio 4711 RTP/AVP 8 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 ← ← ACM 200 OK INVITE ← ← ANM	

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 criteria:	PICS 3/4	
ISUP selection criteria:	PICS 3/8	
Test purpose:	Ensure that the SUT receives an INVITE with the same Call-ID and From tag as a previous INVITE which was associated with a BICC/ISUP call/bearer control instance currently existing on the BICC/ISUP side whereby the number of digits in the Request-URI is **greater** than the number of digits already accumulated for the call: • sends a SAM and pass it to outgoing BICC/ISUP procedures. • The SAM shall contain in its Subsequent Number parameter only the additional digits received in this Request-URI compared with the digits already accumulated for the call.	
SIP Parameter values:		
ISUP Parameter values:	SAM; subsequent number (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM INVITE → → SAM INVITE → → SAM 180 Ringing ← ← ACM 200 OK INVITE ← ← 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 Subsequent Address Message (SAM)/	
SIP selection criteria:	PICS 3/4	
ISUP selection criteria:	PICS 3/8	
Test purpose:	Ensure that the SUT receives an INVITE with the same Call-ID and From tag as a previous INVITE which was associated with a BICC/ISUP call/bearer control instance currently existing on the BICC/ISUP side whereby the number of digits in the Request-URI is **fewer** than the number of digits already accumulated for the call: • then the SUT shall immediately send a **484 Address Incomplete** response for this INVITE. • In this case no SAM is sent to BICC/ISUP procedures.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM INVITE → 484 Address incomplete ←	

6.2.1.3 Sending of COT

TP102003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.3
TSS reference:	SIP-ISUP/Basic call/COT	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/4 AND PICS 4/1	
Test purpose:	Ensure that the when the SUT determines that all the preconditions on the incoming SIP side have been met and any continuity procedures on the outgoing BICC side have been successfully completed: • the SUT shall send the COT message where the Continuity Indicator in the COT message shall be set to "*Continuity*".	
SIP Parameter values:		
ISUP Parameter values:	COT continuity indicator: Continuity;	
Comments:	SIP SUT BICC INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → 200 OK UPDATE ← COT 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM	

TP102004	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.3
TSS reference:	SIP-ISUP/Basic call/ COT	
SIP selection criteria:	PICS 4/6 AND PICS 4/7	
ISUP selection criteria:	PICS 1/5 AND PICS 4/1	
Test purpose:	Ensure that the when the SUT determines that all the preconditions on the incoming SIP side have been met and any continuity procedures on the outgoing ISUP side have been successfully completed: • the I-IWU shall send the COT message where the Continuity Indicator in the COT message shall be set to "*Continuity check successful*".	
SIP Parameter values:		
ISUP Parameter values:	COT continuity indicator: Continuity check successful;	
Comments:	SIP SUT ISUP INVITE → → IAM 183 Session Progress ← PRACK → 200 OK PRACK ← UPDATE → 200 OK UPDATE ← COT 200 OK INVITE ← ← 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 complete message (ACM)/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of an ACM message where the Called party status indicator is set to "no indication": • 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 ISUP INVITE → → IAM ← ACM	

TP104002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.5, 1)
TSS reference:	SIP-ISUP/Basic call/ Receipt of the Address complete message (ACM)/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of an ACM message where the Called party status indicator is set to "subscriber free" where the ISUP indicator parameter set to ISUP_ID, the ISDN access indicator set to **ISDN_ACCES_ID** and the OBCI in-band information set to **OBCI_INBAND** then: • 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 values:	ACM FCI: ISUP_ID, ISDN_ACCESS_ID OBCI: OBCI_INBAND;	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← 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 progress 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 **event information parameter event indicator** is set to "Alerting": • the 180 Ringing SIP response is sent.	
SIP Parameter values:		
ISUP Parameter values:	ACM: Called party status "no indication" CPG; **event information parameter event indicator**: Alerting	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM 180 Ringing ← ← CPG	

TP105002	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 progress 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 **event information parameter event indicator** is set to "Progress": • the CPG is not interworked.	
SIP Parameter values:		
ISUP Parameter values:	ACM: Called party status "no indication" CPG; **event information parameter event indicator**: Progress	
Comments:	SIP SUT ISUP INVITE → → IAM ← 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 progress 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 **event information parameter event indicator** 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 ← ACM ← 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 message (ANM).	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, having received the ACM message, on receipt of an ANM message: • sends a 200 OK INVITE 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 ← ← ACM 200 OK INVITE ← ← 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 message (ANM).	
SIP selection criteria:	PICS 4/7	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, having received the ACM message, on receipt of an ANM message: • sends a 200 OK INVITE 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	→			
183 Session Progress	←			
UPDATE(SDP)	→		→	IAM
180 Ringing	←		←	ACM
200 OK INVITE	←		←	ANM

TP106003	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 message (ANM).	
SIP selection criteria:	NOT PICS 4/7	
ISUP selection criteria:		
Test purpose:	SDP offer was not received in the initial INVITE. Ensure that the SUT, having received the ACM message, on receipt of an ANM 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.	
SIP Parameter values:	200 OK INVITE includes an SDP offer ACK includes an SDP answer	
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 ← ← ACM 200 OK INVITE ← ← ANM OK →	

6.2.1.7 Receipt of the Connect message (CON)

TP107001	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 CONNECT message (CON).	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	**SDP offer was received** in the initial INVITE. Ensure that the SUT, on receipt of an CON message: • sends a 200 OK INVITE 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 200 OK INVITE ← ← CON	

TP107002	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 CONNECT message (CON).	
SIP selection criteria:	PICS 4/7	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, on receipt of an CON message: • 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 → 183 Session Progress ← UPDATE(SDP) → → IAM 200 OK INVITE ← ← 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 4/7	
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.	
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 • 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 200 OK INVITE ← ← CON	

6.2.1.8 Receipt of the REL message

TP108001	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:	NOT PICS 4/15	
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 values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM SIP_FAILURE_VA ← ← REL ACK → → RLC	

Table 5

Values for test purpose TP108001		
←SIP Message SIP_FAILURE_VA		← REL Cause Indicators parameter CV_ISUP
VA_1	404 Not Found	Cause Value No. 1 ("unallocated (unassigned) number")
VA_2	500 Server Internal Error	Cause Value No. 2 ("no route to network")
VA_3	500 Server Internal Error	Cause Value No. 3 ("no route to destination")
VA_4	500 Server Internal Error	Cause Value No. 4 ("Send special information tone")
VA_5	404 Not Found	Cause Value No. 5 ("Misdialled trunk prefix")
VA_6	500 Server Internal Error	Cause Value No. 8 ("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 includes the (CCBS indicator = CCBS possible) else 480 Temporarily unavailable	Cause Value in the Class 010 (No circuit/channel available, Cause Value No. 34)
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) (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 Release message (REL)/	
SIP selection criteria:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "**no indication**", on receipt of an ISUP REL: • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side; • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA.	
SIP Parameter values:	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)	
ISUP Parameter values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM SIP_FAILURE_VA ← ← 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 message (REL)/	
SIP selection criteria:	NOT PICS 4/15	
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 ISUP INVITE → → IAM 180 Ringing ← ← ACM SIP_FAILURE_VA ← ← REL ACK → → RLC	

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 Release message (REL)/	
SIP selection criteria:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "**no indication**", having received a CPG message where the **event information parameter event indicator** is set to "Alerting", a 180 Ringing message is sent, on receipt of an ISUP REL: • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side; • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA.	
SIP Parameter values:	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)	
ISUP Parameter values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM 180 Ringing ← ← CPG SIP_FAILURE_VA ← ← REL ACK → → RLC	

Table 7

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

TP108005	**SIP reference: RFC 3261 [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:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message, having received a ANM', a 200 OK message is sent, on receipt of an ISUP REL, where the cause value defined as CV_ISUP: • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side; • the SUT shall send a BYE message.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM BYE ← ← 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 criteria:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a CON message, a 200 OK message is sent, on receipt of an ISUP REL, where the cause value defined as CV_ISUP: • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side; • the SUT shall send a BYE message.	
SIP Parameter values:		
ISUP Parameter values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM 200 OK INVITE ← ← CON BYE ← ← REL 200 OK BYE → → RLC	

Table 8

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

TP108007	SIP reference: RFC 3261 [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 4/15	
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, 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 SIP_FAILURE_VA ← ← REL ACK → → RLC	

Table 9

Values for test purposes TP108007		
	←SIP Message SIP_FAILURE_VA CV_SIP	← REL Cause Indicators parameter CV_ISUP,
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, Cause Value No. 34)
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)

Values for test purposes TP108007		
	←SIP Message SIP_FAILURE_VA CV_SIP	← REL Cause Indicators parameter CV_ISUP,
VA_27	500 Server Internal Error Cause Value No. 87	Cause Value No. 87 ("user not member of CUG")
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 criteria:	PICS 4/15	
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 ← ACM SIP_FAILURE_VA ← ← 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 4/15	
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 ISUP INVITE → → IAM 180 Ringing ← ← ACM SIP_FAILURE_VA ← ← REL ACK → → RLC	

TP1080010	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 4/15	
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 values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM 180 Ringing ← ← CPG SIP_FAILURE_VA ← ← REL ACK → → 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)

TP1080011	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 4/15	
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 ← ← ACM 200 OK INVITE ← ← ANM BYE ← ← REL 200 OK BYE → → RLC	

TP1080012	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 4/15	
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 values:	**Cause value**: CV_SIP (PIXIT)	
ISUP Parameter values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM 200 OK INVITE ← ← CON BYE ← ← REL 200 OK BYE → → RLC	

Table 12

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

TP1081013	**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:	NOT PICS 4/15 AND PICS 4/26	
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 ← REL → RLC → IAM	

6.2.1.9 Autonomous release at I-IWU

TP1081013	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:	PICS 4/8	
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 SUT ISUP INVITE → → IAM ← RSC → RLC 480 Temporarily unavailable ← ACK →	

TP1081014	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 when the SUT receives unrecognized backward ISUP or BICC signalling information and determines that the call needs to be released based on the coding, the SUT: • shall send a 500 Server Internal Error response on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:	Unknown message: Message compatibility "Release call"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM ← ??? 500 Server internal error ← → REL ACK → ← RLC	

TP1081015	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:	PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that if the I-IWU receives unrecognized backward ISUP or BICC signalling information and determines that the call needs to be released based on the coding, the SUT shall: • send a 500 Server Internal Error response on the SIP side; • the reason header field containing the (ITU-T Rec Q.850 [5]) Cause Value of the REL message sent by the I-IWU shall be contained in the SIP Message (BYE or final response) sent by the SIP side of the I-IWU.	
SIP Parameter values:		
ISUP Parameter values:	Unknown message: Message compatibility "Release call"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM ← ??? 500 Server internal error ← → REL ACK → ← RLC	

TP1081016	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:	PICS 3/4	
Test purpose:	Ensure that the SUT on receipt of insufficient digits received in an INVITE messages: • sends an 484 Address Incomplete message	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → 484 Address incomplete ← ACK →	

TP1081017	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:	PICS 3/4	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of subsequent INVITE message, • is sending a 484 Address Incomplete message to consider any offer-answer exchange initiated by the INVITE. A new INVITE shall initiate a new offer-answer exchange.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	As a general principle, the overlap procedures allow for session negotiation (and in particular the negotiation and confirmation of preconditions) to continue independently of the receipt of address information. On sending of a 484 Address Incomplete message for an INVITE transaction the I-IWU considers any offer-answer exchange initiated by the INVITE to be terminated. The new INVITE initiates a new offer-answer exchange. However, if resources have already been reserved and they can be reused within the new offer-answer exchange, the precondition signalling shall reflect the current status of the affected preconditions. SIP SUT ISUP INVITE → INVITE → 484 Address incomplete ← ACK →	

TP1081018	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 SUT in congestion on receipt of INVITE message: • sends an 480 Temporarily Unavailable message.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT INVITE → 480 Temporarily unavailable ← ACK →	

TP1081019	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/ISUP are a result of a **release after answer**: • sends a BYE message to the UAC; • sends a REL to the BICC/ISUP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM BYE ← → REL 200 OK BYE → ← RLC	

TP1082020	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 call is released due to the BICC/ISUP compatibility procedure: • sends 500 Server Internal Error.	
SIP Parameter values:		
ISUP Parameter values:	Unknown parameter: Parameter compatibility "Release call"	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM 500 Server internal error ← → REL ACK → ← RLC	

TP1082021	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 call is released due to expiry of T7 within the BICC/ISUP procedures: • sends 484 Address Incomplete.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP — SUT — ISUP INVITE → → IAM T7 expiry 484 Address incomplete ← → REL ACK → ← RLC	

TP1082022	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 call is released due expiry of T9 within the BICC/ISUP procedures: • sends 480 Temporarily Unavailable.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM T9 expiry 480 Temporarily unavailable ← → REL ACK → ← RLC	

TP1082023	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 call is released due release before answer: • sends 480 Temporarily Unavailable.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM Autonomous release from I-IWU 480 Temporarily unavailable ← → REL ACK → ← RLC	

6.2.1.10 Receipt of the Release message BYE / CANCEL

TP109001	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 message	
SIP selection criteria:	NOT PICS 4/16	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of SIP **BYE**, the SUT shall send an ISUP REL with the cause value # 16 to the ISUP side	
SIP Parameter values:		
ISUP Parameter values:	REL: Cause value #16, Location "Network beyond an interworking point"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM BYE → → REL 200 OK BYE ← ← RLC	

TP109002	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 criteria:	NOT PICS 4/16	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT on receipt of SIP **CANCEL**, the I-IWU shall send an ISUP REL with the cause value # 31 to the ISUP side.	
SIP Parameter values:		
ISUP Parameter values:	REL: Cause value #31, Location "Network beyond an interworking point"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM CANCEL → → 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 message	
SIP selection criteria:	PICS 4/16	
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 **is included** 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 ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM BYE → → REL 200 OK BYE ← ← RLC	

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 criteria:	PICS 4/16	
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 **is included** in the CANCEL message is mapped to the ISUP Cause Value field in the ISUP REL message.	
SIP Parameter values:		
ISUP Parameter values:	REL: cause value: CV_ISUP (PIXIT) location: LOC_ISUP (PIXIT)	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM CANCEL → → REL 200 OK CANCEL ← ← 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:	Ensure that the SUT, when at least one backward ISUP/BICC message relating to the call has already been received on receipt of a RSC message sends: • a BYE message if the SUT has already received an ACK for the 200 OK INVITE message which had it sent.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → BYE ← ← RSC 200 OK BYE → → 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 backward ISUP/BICC message relating to the call has already been received on receipt of a GRS message sends: • a BYE message if the SUT has already received an ACK for the 200 OK INVITE message which had it sent.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → BYE ← ← GRS 200 OK BYE → → GRA	

TP110003	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 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 Type Indicator "hardware failure oriented"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → BYE ← ← CGB 200 OK BYE → → 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 ← ← ACM 200 OK INVITE ← ← ANM ← 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 ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← 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 backward ISUP message relating to the call has already been received on receipt of a RSC message, with the Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented", 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:	Circuit Group Supervision Message Type Indicator "hardware failure oriented"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← CGB ACK → → GGBA BYE ← 200 OK BYE →	

TP110007	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 • a 500 Server Internal Error on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 500 Server Internal Error ← ← RSC ACK → → RLC	

TP110008	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 • a 500 Server Internal Error on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 500 Server Internal Error ← ← GRS ACK → → GRA	

TP110009	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 backward ISUP message relating to the call has already been received on receipt of a CGB message, with the Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented", sends • a 500 Server Internal Error on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 500 Server Internal Error ← ← CGB ACK → → CGBA	

TP110010	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 after receiving more than one INVITE sending an IAM message for each call association on receipt of a GRS message were the Range and Status Parameter value is bigger than *"1"*: • the SUT shall send a BYE requests for each call association.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE 1 → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → INVITE 2 → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → BYE 1 ← ← GRS 200 OK BYE → → GRA BYE 2 ← 200 OK BYE →	

TP110011	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 after receiving more than one INVITE sending an IAM message for each call association on receipt of a CGB message, with the Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" **were the Range and Status Parameter value is bigger than *"1"***: • the SUT shall send a BYE requests for each call association.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE 1 → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → INVITE 2 → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → BYE 1 ← ← CGB 200 OK BYE → → CGBA BYE 2 ← 200 OK BYE →	

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 **suspend indicator** set to "network initiated": • does not send any message.	
SIP Parameter values:		
ISUP Parameter values:	SUS; **Suspend indicator**: network initiated	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← 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 **suspend indicator** set to "network initiated"	
SIP selection criteria:		
ISUP selection criteria:	PICS 4/19	
Test purpose:	Ensure that the SUT, on receipt of a SUSPEND message with the **suspend indicator** set to "network initiated": • T6 is started. • After T6 is expired, the call is released.	
SIP Parameter values:		
ISUP Parameter values:	SUS; **Suspend indicator**: network initiated; REL: Cause value 102	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← SUS T6 is started T6 is expired BYE ← → REL 200 OK BYE → ← 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]
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:		
ISUP Parameter values:	RES; **Suspend indicator**: network initiated	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← SUS ← RES	

6.2.2 Interworking from ISUP to SIP

6.2.2.1 Sending of the INVITE message

TP301001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, 1 a)
TSS reference:	ISUP-SIP /Basic call/Sending of the INVITE message	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** and the **sending complete** indication: • Sends the INVITE message.	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: with sending complete indication	
Comments:	ISUP/BICC SUT SIP IAM ➔ ➔ 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 **maximum number of digits** used in the national numbering plan: • sends the INVITE message.	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number	
Comments:	ISUP/BICC SUT 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 values:	IAM; **Called party number**: complete number	
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 message	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by the expiration timer T_{OIW1} after the receipt of the latest address message: • sends the INVITE message.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM ➔ T_{OIW1} 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 4/20	
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 4/20	
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 IAM → 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 message	
SIP selection criteria:	NOT PICS 4/20	
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 IAM → 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 message	
SIP selection criteria:	NOT PICS 4/20	
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 SIP IAM → COT →	

TP301009	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 4/20	
ISUP selection criteria:	PICS 1/5	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "***continuity check required on this circuit***". INVITE shall not be sent if the ISUP **timer T8 expires**. The SUT • Sends a REL message.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → T8 expiry REL ← RLC →	

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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message where the Continuity Check indicator in the Nature of Connection Indicators parameter in the IAM is set to indicate ***"continuity check not required"***: • sends an INVITE message 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 message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
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 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 ← 200 OK PRACK COT → → UPDATE ← 200 OK UPDATE	

TP301014	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 4/7 AND PICS 4/20	
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 → → INVITE ← 183 Session Progress → PRACK ← 200 OK PRACK COT → → 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 4/7 AND PICS 4/20	
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 SIP IAM → → INVITE ← 100 Trying internal resource reservation was unsuccessful REL ← → CANCEL RLC → ← 200 OK CANCEL	

TP301016	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 4/7 AND PICS 4/20	
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 **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 → → INVITE ← SIP_MESSAGE_VA internal resource reservation was unsuccessful REL ← → CANCEL RLC → ← 200 OK CANCEL ← 487 Request terminated → ACK	

TP301018	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 4/7 AND PICS 4/20	
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 **after** a 200 OK response message has been received. Ensure that the SUT: • sends BYE 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 → → INVITE ← 200 OK INVITE Internal resource reservation was unsuccessful → ACK REL ← → BYE RLC → ← 200 OK BYE	

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 message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to **"*continuity check required on this circuit*"** and sends an INVITE message with precondition using the SDP offer in the INVITE. The 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 SIP IAM → → INVITE ← 100 Trying internal resource reservation was unsuccessful REL ← → CANCEL RLC → ← 200 OK CANCEL	

TP301020	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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to **"*continuity check required on this circuit*"** and sends an INVITE message with precondition using the SDP offer in the INVITE. The 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 → → INVITE ← SIP_MESSAGE_VA internal resource reservation was unsuccessful REL ← → CANCEL RLC → ← 200 OK CANCEL ← 487 Request terminated → ACK	

Table 13

Values for test purpose

- TP301016
- TP301020
- TP3010128
- TP3010132
- 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)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to **"*continuity check required on this circuit*"** and sends an INVITE message with precondition using the SDP offer in the INVITE. The Continuity message is received with the Continuity Indicators parameter set to **"*continuity check failed*"**. The call has been cleared **before** an early dialogue has been established. Ensure that the SUT: • sends CANCEL on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP 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 criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to **"*continuity check required on this circuit*"** and sends an INVITE message with precondition using the SDP offer in the INVITE. The Continuity message is received with the Continuity Indicators parameter set to **"*continuity check failed*"**. The call has been cleared **after** an early dialogue with the message defined as SIP_MESSAGE_VA has been established. Ensure that the SUT: • sends CANCEL on the SIP side.	
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)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to **"*continuity check required on this circuit*"** and sends an INVITE message with precondition using the SDP offer in the INVITE. The ISUP Timer **T8 expires**. The call has been cleared **before** an early dialogue has been established. Ensure that the SUT: • sends CANCEL on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← 100 Trying T8 expires REL ← → CANCEL RLC → ← 200 OK CANCEL ← 487 Request terminated → ACK	

TP301032	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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "***continuity check required on this circuit***" and sends an INVITE message with precondition using the SDP offer in the INVITE. The ISUP Timer **T8 expires**. 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 on the SIP side.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← SIP_MESSAGE_VA T8 expires REL ← → CANCEL RLC → ← 200 OK CANCEL ← 487 Request terminated → 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 message	
SIP selection criteria:	NOT PICS 4/20	
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 → SUT → SIP IAM → COT → → INVITE	

TP301038	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 message	
SIP selection criteria:	NOT PICS 4/20	
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; - 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 → 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 message	
SIP selection criteria:	NOT PICS 4/20	
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 SUT 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 message	
SIP selection criteria:	NOT PICS 4/20	
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; - BNC set-up success indication for cases using bearer control tunnelling was received.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC SUT SIP IAM ➔ COT ➔ ➔ 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 message	
SIP selection criteria:	NOT PICS 4/20	
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 SIP IAM → T8 expires REL ← RLC →	

TP301042	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, D)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/4 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "**COT to be expected**" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when: • continuity message, with the Continuity Indicators parameter set to "***continuity***" shall be received; • bearer Set-up indication – for the forward bearer set-up case where the incoming Connect Type is "notification not required" was received.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC SUT SIP IAM → → INVITE ← 183 Session Progress COT → 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 message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/4 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "**COT to be expected**" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when: • continuity message, with the Continuity Indicators parameter set to "***continuity***" shall be received; • 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 → → INVITE ← 183 Session Progress COT → UPDATE ← 200 OK UPDATE	

TP301044	SIP reference: RFC 3261 [6]	ISUP reference: 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 criteria:	NOT PICS 4/20	
ISUP selection criteria:	PICS 1/4	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "**COT to be expected**" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when: • Continuity message, with the Continuity Indicators parameter set to "***continuity***" shall be received; • Bearer Set-up Connect indication – for the backward bearer set-up case was received.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC SUT SIP IAM → → INVITE ← 183 Session Progress COT → 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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/4 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "**COT to be expected**" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when: • continuity message, with the Continuity Indicators parameter set to "**continuity**" shall be received; • BNC set-up success indication for cases using bearer control tunnelling was received.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC SUT SIP IAM → → INVITE ← 183 Session Progress COT → UPDATE ← 200 OK UPDATE	

TP301046	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, D)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
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 SUT SIP IAM → → INVITE ← 100 Trying T8 expires REL ← → CANCEL RLC → ← 200 OK CANCEL	

TP301048	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1, D)
TSS reference:	ISUP-SIP/Basic call/Sending of the INVITE message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 1/5 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 **after** an early dialogue with the message defined as SIP_MESSAGE_VA has been established.	
SIP Parameter values:		
ISUP Parameter 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 message	
SIP selection criteria:	PICS 4/7 AND PICS 4/20	
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 Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "**COT to be expected**". Ensure that the SUT: • sends CANCEL if on the SIP side the internal resource reservation was unsuccessful and if the call has been cleared **before** an early dialogue with the message has been established. • A REL with Cause Value 47 (resource unavailable, unspecified) shall be sent on the ISUP side of the O-IWU.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC SUT SIP IAM → → INVITE ← 100 Trying internal resource reservation was unsuccessful REL ← → CANCEL RLC → ← 200 OK CANCEL ← 487 Request terminated → ACK	

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 criteria:	PICS 4/7 AND PICS 4/20	
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 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 — SIP IAM → → INVITE ← SIP_MESSAGE_VA internal resource reservation was unsuccessful REL ← → CANCEL RLC → ← 200 OK CANCEL ← 487 Request terminated → ACK	

TP301053	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 message	
SIP selection criteria:	Based on table 14	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of a IAM message, with the **Transmission Medium Requirement** (TMR) parameter set to TMR_VALUE: • sends an INVITE message containing the media description defined with the "a =" "b =" and "m=" lines set to a_b_m_LINE_VALUE.	
SIP Parameter values:	INVITE: a_b_m_LINE_VALUE	
ISUP Parameter values:	IAM: TMR: ISUP_TMR	
Comments:	ISUP — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← ← 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 message	
SIP selection criteria:	Based on table 15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of an IAM message, with the **user information parameter** set to USI_VALUE: • sends an INVITE message, with the media description defined with the "a = " "b =" and "m=" lines set to a_b_m_LINE_VALUE.	
SIP Parameter values:	INVITE: a_b_m_LINE_VALUE	
ISUP Parameter values:	IAM: TMR: ISUP_USI	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← ← 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>	<transport>	<fmt-list>	<modifier>:<bandwidth-value>	rtpmap:<dynamic-PT> <encoding name>/<clock rate>[/encoding parameters>
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)
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
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

Table 15

Values for test purposes TP301053, TP301054									
VA	**ISUP**				**SDP - a_b_m_LINE_VALUE**				
		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>	<transport>	<fmt-list>	<modifier>:<bandwidth-value>	rtpmap:<dynamic-PT> <encoding name>/<clock rate>[/encoding parameters>
VA_01	"speech"	"Speech"	"G.711 μ-law"	Ignore	audio	RTP/AVP	0 (and possibly 8) 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
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
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
NOTE 1: <bandwidth value> for <modifier> of AS is evaluated to be B kbit/s. NOTE 2: CLEARMODE has been standardized.									

TP301055	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 message	
SIP selection criteria:	PICS 1/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state on receipt of a IAM message, with the **user information parameter** set to USI_VALUE and Transmission Medium Requirement (TMR) parameter set to TMR_VALUE: • sends an INVITE message with the media description defined with the "a = " "b =" and "m=" lines set to a_b_m_LINE_VALUE; • ensure that the SUT is capable of encoding the SDP for the AMR codec, which is specified in RFC 3267 [12]: "RTP payload format and file storage format for the Adaptive Multi-Rate (AMR) and Adaptive Multi-Rate Wideband (AMR-WB) audio codec".	
SIP Parameter values:	INVITE: a_b_m_LINE_VALUE	
ISUP Parameter values:	IAM: TMR: ISUP_USI	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → 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 message	
SIP selection criteria:	NOT PICS 1/9	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM: • to the addr-spec component of the **To 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 message	
SIP selection criteria:	NOT PICS 1/9	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM: • to the addr-spec component of the **To header field** which shall include the "user=phone" URI parameter if the To header field contains a sip: URI.	
SIP Parameter values:	INVITE: To: sip: ….; user=phone	
ISUP Parameter values:		
Comments:	ISUP 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 message	
SIP selection criteria:	NOT PICS 1/9	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM and the and the followed SAM: • to the addr-spec component of the **To header field**.	
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM ➔ SAM ➔ SAM ➔ ➔ 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 message	
SIP selection criteria:	NOT PICS 1/9	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT is mapping in the Called Party Number parameter contained in the Called Party address information of the IAM and followed SAM: • to the addr-spec component of the **To header field** which shall include the "user=phone" URI parameter if the To header field contains a sip: URI.	
SIP Parameter values:	INVITE: To: sip: ….; user=phone	
ISUP Parameter values:		
Comments:	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 Address message (IAM)/	
SIP selection criteria:		
ISUP selection criteria:	PICS 4/5	
Test purpose:	Ensure that the SUT shall derive the Max-Forwards header field value from the Hop Counter parameter value by applying a factor. The Max-Forwards header field value for a given message should never increase and should decrease by at least 1 with each successive visit to an IWU, regardless of intervening interworking, and similarly for Max-Hop Counter inn the BICC/ISUP domain.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	The initial and successively mapped values of Hop Counter should be large enough to accommodate the maximum number of hops that might be expected of a validly routed call. ISUP SUT SIP IAM ➔ ➔ 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 message	
SIP selection criteria:	PICS 1/9	
ISUP selection criteria:	PICS 1/8	
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, **Nature of address = "International number"** of the IAM: • to the addr-spec component of the **To header field** in the INVITE message; • the format of the To header field is "+CC+NDC+SN"; • the forward address information is derived from the userinfo component of the INVITE Request-URI.	
SIP Parameter values:	INVITE: To: …	
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM ➔ ➔ 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 message	
SIP selection criteria:	PICS 1/9	
ISUP selection criteria:	NOT PICS 1/8	
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, **Nature of address = "National (significant) number"** of the IAM: • to the addr-spec component of the **To header field** in the INVITE message; • the format of the To header field is "+CC+NDC+SN"; • the forward address information is derived from the userinfo component of the INVITE Request-URI.	
SIP Parameter values:	INVITE: To: …	
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM ➔ ➔ INVITE	

TP301063	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 message	
SIP selection criteria:	PICS 1/9	
ISUP selection criteria:	PICS 1/8	
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, **Nature of address = "International number"** of the IAM and the and the followed SAM: • to the addr-spec component of the **To header field**; • the format of the To header field is "+CC+NDC+SN"; • the forward address information is derived from the userinfo component of the INVITE Request-URI.	
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM ➔ SAM ➔ SAM ➔ ➔ INVITE	

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 INVITE message	
SIP selection criteria:	PICS 1/9	
ISUP selection criteria:	NOT PICS 1/8	
Test purpose:	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, **Nature of address = "National (significant) number"** of the IAM and the followed SAM: • to the addr-spec component of the **To header field;** • The format of the To header field is "+CC+NDC+SN"; • the forward address information is derived from the userinfo component of the INVITE Request-URI.	
SIP Parameter values:	INVITE: To:	
ISUP Parameter values:		
Comments:	ISUP SUT 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 INVITE has been sent	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:		
Test purpose:	Ensure if the SUT is supporting en bloc addressing towards the SIP network, subsequent SAMs received after the SUT has sent the INVITE are ignored.	
SIP Parameter values:		
ISUP Parameter values:	SAM; **subsequent number** (PIXIT)	
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 invite has been sent	
SIP selection criteria:	PICS 3/2	
ISUP selection criteria:	PICS 1/5	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to indicate "**continuity check not required**": • sends a INVITE message. On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE SAM → → INVITE SAM → → 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 invite has been sent	
SIP selection criteria:	PICS 3/2 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "***continuity check required on this circuit***" Sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "***continuity check successful***". On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → SAM → COT → → INVITE SAM → → INVITE	

TP302004	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 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "***continuity check performed on previous circuit***" Sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "***continuity check successful***". On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP → SUT → SIP IAM → SAM → COT → → INVITE SAM → → INVITE	

TP302005	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 4/20	
ISUP selection criteria:	PICS 1/5 AND PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "***continuity check required on this circuit***" sending of INVITE is delayed. INVITE message shall not be sent after the Continuity message was received with the Continuity Indicators parameter set to "***continuity check failed***". On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP → SUT → SIP IAM → SAM → COT →	

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 4/20	
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 shall not be sent after the ISUP timer T8 expires. On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP → SUT → SIP IAM → SAM → T8 expires 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 4/7 AND PICS 4/20	
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***". Sends an INVITE message after the reception of the Continuity message with the Continuity Indicators parameter set to "***continuity check successful***" and after the requested preconditions are met in the SIP network. On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
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.	

ISUP		SUT		SIP
IAM	→		→	INVITE
SAM	→			
			←	183 Session Progress
COT	→		→	UPDATE
			←	200 OK UPDATE
SAM			→	INVITE

TP3020010	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 4/7 AND PICS 4/20	
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***", Sends an INVITE message after the reception of the Continuity message with the Continuity Indicators parameter set to "***continuity check successful***" and after the requested preconditions are met in the SIP network. On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
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.	

ISUP		SUT		SIP
IAM	→		→	INVITE
SAM	→			
			←	183 Session Progress
COT	→		→	UPDATE
			←	200 OK UPDATE
SAM	→		→	INVITE

TP3020011	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 4/20	
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 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. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC → SUT → SIP IAM → SAM → COT → → INVITE SAM → → INVITE	

TP3020012	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 4/20	
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 until all the following conditions are satisfied: • Continuity message, with the Continuity Indicators parameter set to "***continuity***" shall be received. • APM with Action indicator set to "Connected" – for the forward bearer set-up cases (with, or without bearer control tunnelling) where the incoming Connect Type is "notification required", and for the fast set-up (backward) case. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC → SUT → SIP IAM → SAM → COT → → INVITE SAM → → INVITE	

TP3020013	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 4/20	
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 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. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC → SUT → SIP IAM → SAM → COT → → INVITE SAM → → INVITE	

TP3020014	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 4/20	
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 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. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	BICC → SUT → SIP IAM → SAM → COT → → INVITE SAM → → INVITE	

TP3020015	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 4/7 AND PICS 4/20	
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 INVITE message. The events • continuity message, with the Continuity Indicators parameter set to "***continuity***" was received; • Bearer Set-up indication – for the forward bearer set-up case where the incoming Connect Type is "**notification not required**" was received. are indicating the successful completion of bearer set-up. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	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		SUT		SIP
IAM	→		→	INVITE
SAM	→			
			←	183 Session Progress
COT	→		→	UPDATE
			←	200 OK UPDATE
SAM	→		→	INVITE

TP3020016	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 4/7 AND PICS 4/20	
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 INVITE message. The events: • continuity message, with the Continuity Indicators parameter set to "***continuity***" was 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. are indicating the successful completion of bearer set-up. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	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		SUT		SIP
IAM	→		→	INVITE
SAM	→			
			←	183 Session Progress
COT	→		→	UPDATE
			←	200 OK UPDATE
SAM	→		→	INVITE

TP3020017	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 4/7 AND PICS 4/20	
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 INVITE message. The events: • continuity message, with the Continuity Indicators parameter set to "***continuity***" was received; • Bearer Set-up Connect indication – for the backward bearer set-up case was received. are indicating the successful completion of bearer set-up. On receipt of a SAM from the BICC the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	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		SUT		SIP
IAM	→		→	INVITE
SAM	→			
			←	183 Session Progress
COT	→		→	UPDATE
			←	200 OK UPDATE
SAM	→		→	INVITE

TP3020018	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 4/7 AND PICS 4/20	
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 containing indicating "**COT to be expected**". Sends the INVITE message. The events: • continuity message, with the Continuity Indicators parameter set to "**continuity**" was received; • BNC set-up success indication for cases using bearer control tunnelling was received. are indicating the successful completion of bearer set-up. On receipt of a SAM from the BICC/ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) The Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call. b) A new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent. c) The new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question. d) All other contents of the new INVITE are interworked from the parameters of the original IAM.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	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		SUT		SIP
IAM	→		→	INVITE
SAM	→			
			←	183 Session Progress
COT	→		→	UPDATE
			←	200 OK UPDATE
SAM	→		→	INVITE

TP3020019	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	
ISUP selection criteria:	PICS 1/4	
Test purpose:	The SUT in Idle state, on receipt of an IAM message sends a INVITE message. On receipt of a SAM from the BICC/ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running). 2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) ensure that if timer TOIW2 has expired, subsequent SAMs received; b) after the SUT has sent the INVITE are ignored.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE SAM → → INVITE T_{oiw2} expired 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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1	
ISUP selection criteria:	PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: interworking encountered (1) **ISUP indicator**: ISUP not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ←	

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 message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1 AND NOT PICS 1/9	
ISUP selection criteria:	PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ←	

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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1	
ISUP selection criteria:	PICS 4/14	
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 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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: interworking encountered (1) **ISUP indicator**: ISUP not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ←	

TP303004	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 message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	PICS 4/14	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan: • Sends the INVITE message to called user. • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ←	

TP303005	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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1	
ISUP selection criteria:	PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: interworking encountered (1) **ISUP indicator**: ISUP not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP 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 message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	PICS 4/14	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party: • Sends the INVITE message to called user. • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ←	

TP303007	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 message	
SIP selection criteria:	PICS 1/1 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_{OIW1} 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".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: interworking encountered (1) **ISUP indicator**: ISUP not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP IAM → T_{OIW1} expiry ACM ← → INVITE	

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 message	
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_{OIW1} 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)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → T_{OIW1} expiry ACM ← → INVITE	

TP3030010	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 3/2	
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 TOIW2 and invoke the appropriate outgoing SIP signalling procedure): • Sends an INVITE message to the called user and after the expiration of $T_{OIW2.}$ • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → SAM → SAM → → INVITE T_{OIW2} expiry ACM ←	

TP3030011	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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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: • 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 not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing	

TP3030012	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 message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing	

TP3030013	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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 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 not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing	

TP3030014	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 message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing	

TP3030015	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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 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 not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing	

TP3030016	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 message	
SIP selection criteria:	PICS 1/2 AND PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing	

TP3030017	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 message	
SIP selection criteria:	PICS 1/1 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_{OIW1} 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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: interworking encountered (1) **ISUP indicator**: ISUP not used all the way **ISDN access indicator:** "terminating access non-ISDN"	
Comments:	ISUP → SUT IAM → T_{OIW1} expiry ACM ← → INVITE	SIP

TP3030018	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 message	
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_{OIW1} 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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP → SUT IAM → T_{OIW1} expiry ACM ← → INVITE	SIP

TP3030019	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1 a) and 7.3.2
TSS reference:	ISUP-SIP /Basic call/Sending of the ACM message	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 values:	IAM; **Called party number**: complete number	
Comments:	ISUP SUT SIP IAM → → INVITE ← 183 Session Progress	

TP3030020	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 message	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 SIP IAM → → INVITE ← 183 Session Progress	

TP3030021	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1, 1 c) and 7.3.2
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
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 IAM → SUT → SIP INVITE ← 183 Session Progress	

TP3030022	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clauses 7.1 and 7.3.2
TSS reference:	ISUP-SIP /Basic call/ Sending of the ACM message	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:	NOT PICS 4/14	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by the expiration timer T_{OIW1} after the receipt of the latest address message on receipt of a 183 Session Progress: • No BICC/ISUP message is sent backward.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP IAM → SUT → SIP INVITE ACM ← T_{OIW1} expiry ← 183 Session Progress	

TP3030023	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 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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)", 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:** 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 → IAM ← ACM → COT SUT → SIP → INVITE ← 183 Session Progress → UPDATE	

TP3030024	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 PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP → SUT → SIP IAM → → INVITE ← 183 Session Progress COT → → UPDATE ACM ←	

TP3030025	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 criteria:	PICS 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: 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 ←	

TP3030026	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 PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP → SUT → SIP IAM → → INVITE ← 183 Session Progress COT → → UPDATE ACM ←	

TP3030027	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 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: 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 ←	

TP3030028	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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP → SUT → SIP IAM → INVITE ← 183 Session Progress COT → UPDATE ACM ←	

TP3030029	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 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by the expiration timer T_{OIW1} after the receipt of the latest address message and the continuity check is performed (ISUP) or COT is expected (BICC): • Sends the INVITE message to called user. • The SUT shall withhold sending ACM until a successful continuity indication has been received. • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "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:** 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 → → INVITE ← 183 Session Progress COT → → UPDATE T_{OIW1} expiry ACM ←	

TP3030030	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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by the expiration timer T_{OIW1} after the receipt of the latest address message and the continuity check is performed (ISUP) or COT is expected (BICC): • Sends the INVITE message to called user. • The SUT shall withhold sending ACM until a successful continuity indication has been received. • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ← 183 Session Progress COT → → UPDATE T_{OIW1} expiry ACM ←	

TP3030032	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 3/2 AND PICS 4/7 AND PICS 4/20	
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 TOIW2 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)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set to "ISUP_IND_ID", the ISDN access indicator set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → SAM → → INVITE ← 183 Session Progress COT → → UPDATE T_{OIW2} expiry ACM ←	

TP3030033	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 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 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 ← ← 180 RINGING	

TP3030034	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 PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP → SUT → SIP IAM → → INVITE ← 183 Session Progress COT → → UPDATE ACM ← ← 180 RINGING	

TP3030035	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 criteria:	PICS 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 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 ← ← 180 RINGING	

TP3030036	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 PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ← 183 Session Progress COT → → UPDATE ACM ← ← 180 RINGING	

TP3030037	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 1/1 AND PICS 3/1 AND PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 ← ← 180 RINGING	

TP3030038	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 PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ← 183 Session Progress COT → → UPDATE ACM ← ← 180 RINGING	

TP3030039	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 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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)", 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:** 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 → COT → → INVITE ACM ←	

TP3030040	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 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → COT → → INVITE ACM ←	

TP3030041	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 criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: 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 ←	

TP3030042	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 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → COT → → INVITE ACM ←	

TP3030043	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 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: 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 ←	

TP3030044	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 NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → COT → → INVITE ACM ←	

TP3030045	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 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by the expiration timer T_{OIW1} after the receipt of the latest address message and the continuity check is performed (ISUP) or COT is expected (BICC): • Sends the INVITE message to called user. • The SUT shall withhold sending ACM until a successful continuity indication has been received. • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "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:** 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 → COT → → INVITE T_{OIW1} expiry ACM ←	

TP3030046	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 NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2	
Test purpose:	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete **called party number** where the end of address signalling is determined by the expiration timer T_{OIW1} after the receipt of the latest address message and the continuity check is performed (ISUP) or COT is expected (BICC): • Sends the INVITE message to called user. • The SUT shall withhold sending ACM until a successful continuity indication has been received. • Sends the ACM message with the **CPS indicator** set to "no indication (00)", the **Called party's category indicator** set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP → SUT → SIP IAM → COT → → INVITE T_{OIW1} expiry ACM ←	

TP3030047	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 3/2 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 3/8 AND 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 TOIW2 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)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set to "ISUP_IND_ID", the ISDN access indicator set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → SAM → COT → → INVITE T_{OIW2} expiry ACM ←	

TP3030048	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 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 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 → COT → → INVITE ACM ←	

TP3030049	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 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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)", the **interworking indicator** set to "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → COT → → INVITE ACM ←	

TP3030050	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 criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 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 → COT → → INVITE ACM ←	

TP3030051	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 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → COT → → INVITE ACM ←	

TP3030052	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 message	
SIP selection criteria:	PICS 1/1 AND PICS 3/1 AND NOT PICS 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 → COT → → INVITE ACM ←	

TP3030053	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 4/20	
ISUP selection criteria:	PICS 4/2 AND NOT PICS 4/14	
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 "INT_IND_VAL", the **ISUP indicator** set to "ISUP_IND_ID", the **ISDN access indicator** set to "ISDN_ACC_IND_VAL".	
SIP Parameter values:		
ISUP Parameter values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** subscriber free (01) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → COT → → INVITE ACM ←	

TP3030054	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 message	
SIP selection criteria:	PICS 1/2 AND PICS 1/9 AND PICS 3/1	
ISUP selection criteria:	PICS 4/14	
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 values:	IAM; **Called party number**: complete number ACM, **CPS indicator:** no indication (00) **Called party's category indicator**: no indication(00) or ordinary subscriber (01) or payphone (10) **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ←	

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 message	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, having sent a ACM message with called party status "no indication" on receipt of a 180 Ringing message: • Sends the CPG message with the with the **event indicator** set to "Alerting".	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE T_{OIW1} expiry ACM ← CPG ← ← 180 Ringing	

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 message	
SIP selection criteria:	PICS 3/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, having sent a ACM message with called party status "no indication" on receipt of a 183 Session progress message: • No BICC/ISUP message is sent backward.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE T_{OIW1} 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 Message (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 TOIW2 (if running): • Send ANM as determined by BICC/ISUP procedures. • Stop any existing awaiting answer indication (e.g. ringing tone).	
SIP Parameter values:	200 OK INVITE;	
ISUP Parameter values:	ANM;	
Comments:	ISUP 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:	Ensure that the SUT, having not sent the ACM message, on receipt of a 200 OK INVITE for this call, it shall stop timer TOIW2 (if running): • Send CON as determined by BICC/ISUP procedures. Stop any existing awaiting answer indication (e.g. ringing tone) BCI encoded as followed: **Interworking indicator**: interworking encountered **ISUP indicator**: ISUP not used all the way **ISDN access indicator**: terminating access non-ISDN **CPS indicator**: no indication	
SIP Parameter values:	200 OK INVITE;	
ISUP Parameter values:	CON; **Interworking indicator**: interworking encountered **ISUP indicator**: ISUP not used all the way **ISDN access indicator**: terminating access non-ISDN **CPS indicator**: no indication	
Comments:	ISUP SUT SIP IAM → → INVITE CON ← ← 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 Message (CON)/	
SIP selection criteria:	PICS 1/2	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT, having not sent the ACM message, on receipt of a 200 OK INVITE for this call, it shall stop timer TOIW2 (if running): • Send CON as determined by BICC/ISUP procedures. Stop any existing awaiting answer indication (e.g. ringing tone) BCI encoded as followed: **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT) **CPS indicator**: no indication	
SIP Parameter values:	200 OK INVITE;	
ISUP Parameter values:	CON; **interworking indicator**: INT_IND_VAL (PIXIT) **ISUP indicator**: ISUP_IND_ID (PIXIT) **ISDN access indicator:** ISDN_ACC_IND_VAL (PIXIT) **CPS indicator**: no indication	
Comments:	ISUP SUT SIP IAM → → INVITE CON ← ← 200 OK INVITE	

6.2.2.7 Receipt of the Release message (REL)

TP307101	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 message (REL)/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM but before an INVITE has been sent. On receipt of a REL message: • no action is required on the SIP side other than to terminate local procedures if any are in progress.	
SIP Parameter values:		
ISUP Parameter values:	REL: **cause value**: CV_ISUP (PIXIT) **location**: LOC_ISUP (PIXIT)	
Comments:	ISUP SUT SIP IAM → REL → RLC ←	

TP307102	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.1, 2)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/	
SIP selection criteria:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message **before** a 200 OK (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 IAM → → INVITE REL → RLC ← ← 200 OK INVITE → ACK → BYE ← 200 OK BYE	

TP307103	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 criteria:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message **before** a 200 OK SIP response message has been received: • The SUT shall hold the REL message. A CANCEL is sent when any SIP response was been received. • On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← 100 TRYING REL → RLC ← → CANCEL ← 200 OK INVITE → ACK ← 200 OK CANCEL → BYE ← 200 OK BYE	

TP307104	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 criteria:	NOT PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message **before** an early dialogue with the message defined as SIP_MESSAGE_VA has been established: • The SUT shall hold the REL message until a **SIP_MESSAGE_VA** response has been received. • The SUT shall send a CANCEL or BYE request.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE REL → RLC ← ← SIP_MESSAGE_VA CASE A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK CASE B → BYE ← 200 OK BYE ← 487 Request terminated → ACK	

TP307105	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 criteria:		
ISUP selection criteria:	NOT PICS 4/15	
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 SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE REL → RLC ← → ACK → BYE ← 200 OK BYE	

TP307106	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 criteria:	NOT PICS 4/15	
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.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← SIP_MESSAGE_VA REL → RLC ← CASE A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK CASE B → BYE ← 200 OK BYE ← 487 Request terminated → ACK	

Table 16

Values for test purpose TP307104; TP307106	
VA	**SIP MESSAGE_VA**
VA_1	180 Ringing
VA_2	181 Call Is Being Forwarded
VA_3	182 Queued
VA_4	183 Session Progress

TP307107	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.1, 2), 4)
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/	
SIP selection criteria:	PICS 4/15	
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 REL message **before** a 200 OK response (any) 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. The cause Value Indicator parameter defined as CV_ISUP shall be mapped to the Reason header field defined as CV_SIP.	
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	

TP307108	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 criteria:	PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message **before** a 200 OK response message has been received: • The SUT shall hold the REL message. A **CANCEL** is sent when any SIP response was been received. • On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a **BYE** request after the ACK has been sent. 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 values:	REL: **cause value**: CV_ISUP (PIXIT) **location**: LOC_ISUP (PIXIT)	
Comments:	ISUP → SUT → SIP IAM → → INVITE ← 100 TRYING REL → RLC ← → CANCEL ← 200 OK INVITE → ACK → BYE ← 200 OK BYE	

TP307109	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 criteria:	PICS 4/15	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message **before** an early dialogue with the message defined as SIP_MESSAGE has been established: • The SUT shall hold the REL message until a **SIP_MESSAGE_VA** response has been received. • 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.	
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 → → INVITE REL → RLC ← ← SIP_MESSAGE_VA CASE A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK CASE B → BYE ← 200 OK BYE ← 487 Request terminated → ACK	

TP3071010	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 criteria:	PICS 4/15	
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 values:	REL: **cause value**: CV_ISUP (PIXIT) **location**: LOC_ISUP (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE REL → RLC ← → ACK → BYE ← 200 OK BYE	

TP3071011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.7.1
TSS reference:	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/	
SIP selection criteria:	PICS 4/15	
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 → → INVITE ← SIP_MESSAGE_VA REL → RLC ← Case A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK Case B → BYE ← 200 OK BYE ← 487 Request terminated → ACK	

Table 17

Values for test purpose TP307109; TP3071011	
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 307107 – 3071011		
	←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/ Sending of the Release message (REL)/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message and on receipt of a BYE message 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** Value No. 16 ("*normal clearing*").	
SIP Parameter values:		
ISUP Parameter values:	REL; Cause value "Normal call clearing"	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation REL ← ← BYE RLC → → 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 message (REL)/	
SIP selection criteria:	PICS 4/16	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM sends out a INVITE message and on receipt of a BYE message where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is included: • sends a REL message. The Cause Value is in the Reason header filed mapped to the ISUP Cause Value field in the ISUP REL.	
SIP Parameter values:	BYE **cause value**: CV_SIP (PIXIT)	
ISUP Parameter values:	REL; **cause value**: CV_ISUP (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation REL ← ← BYE RLC → → 200 OK BYE	

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 criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message. On receipt of a Failure message (4xx, 5xx, 6xx) where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is **not** 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	
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:	PICS 4/17	
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 **not** 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 4/17	
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 **not** 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 procedures 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

TP3080010	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:		
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 SIP IAM → → INVITE ← 100 TRYING REL → → CANCEL RLC ← ← 200 OK CANCEL ← 487 Request terminated → ACK	

TP3080011	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:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM sends out an INVITE message, on receipt of a Failure message **491 Request Pending** where a Reason header field with ITU-T Rec Q.850 [5] Cause Value is **not** included: • no action is taken on the ISUP.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← 491 Request Pending → ACK	

TP3080013	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:		
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 SUT SIP IAM → → INVITE ← SIP MESSAGE_VA REL ← ← SIP_Failure_VA RLC → → ACK	

Table 24

Values for test purpose TP3080013	
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 25

Values for test purposes TP308013, 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 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:		
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 values:	REL; **cause value**: CV_ISUP	
Comments:	ISUP SUT SIP IAM → → INVITE ← 180 Ringing REL ← ← SIP_Failure_VA RLC → → ACK	

Table 26

Values for test purposes TP308014		
VA	**←REL (Cause Value) CV_ ISUP**	**←4XX/5XX/6XX SIP message SIP_Failure_VA**
VA_01	127 Interworking	408 Request timeout
VA_02	17 User busy	486 Busy Here
VA_03	17 User busy	600 Busy Everywhere
VA_04	21 Call rejected	603 Decline

TP3080017	**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:	PICS 4/15	
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 values:	CV_ ISUP (PIXIT)	
Comments:	ISUP SUT SIP IAM → → INVITE ← SIP MESSAGE_VA REL ← ← SIP_Failure_VA RLC → → ACK	

Table 27

Values for test purpose TP308017	
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 4/22	
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 ← ← SIP_Response_VA RLC → → 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]	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:	PICS 4/22	
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 an INVITE using the value of the Contact header field in the received **SIP_Response_VA** in the Request URI.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← SIP_Response_VA → ACK → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK **Conversation** REL → → BYE RLC ← ← 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 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 4/15			
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	SUT		SIP
	IAM	→	→	INVITE
	ACM	←	←	180 Ringing
	ANM	←	←	200 OK INVITE
		Autonomous release at O-IWU		
	REL	←	→	BYE
	RLC	→	←	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 4/15	
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 SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Autonomous release at O-IWU REL ← → BYE RLC → ← 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 criteria:	PICS 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: • shall not send a REL message immediately and shall instead start timer TOIW3. The REL message shall only be sent if TOIW3 expires.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE ← 484 Address incomplete → ACK Start timer T_{OIW3} . . Timeout T_{OIW3} 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 message (REL)/	
SIP selection criteria:	NOT PICS 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 ← 484 Address incomplete → ACK REL ← RLC →	

TP308024	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 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2	
Test purpose:	Ensure that the SUT a on receipt of a COT "failed" 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 "continuity check required on this circuit"	
Comments:	ISUP SUT SIP IAM → → INVITE COT(failed) → CASE A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → 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 4/7 AND PICS 4/20	
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 "continuity check required on this circuit"	
Comments:	ISUP SUT SIP IAM → → INVITE T8 expirees CASE A → CANCEL ← 200 OK CANCEL ← 487 Request 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 criteria:	PICS 4/7 AND PICS 4/20	
ISUP selection criteria:	PICS 4/2	
Test purpose:	Ensure that the SUT when the internal resource reservation is unsuccessful 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 "continuity check required on this circuit"	
Comments:	ISUP SUT SIP IAM → → INVITE ← 183 Session Progress → PRACK ← 200 OK PRACK Internal resource reservation unsuccessful 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

6.2.2.11 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 message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt RSC message **before** a **SIP MESSAGE_VA** response message has been received: • The SUT shall hold the RSC message until a SIP response has been received. • The SUT shall send a CANCEL request. • 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 SIP IAM → → INVITE RSC → RLC ← ← **SIP MESSAGE_VA** → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK	

Table 30

Values for test purpose TP309002	
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:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt RSC message **before** a 200 OK response message has been received: • On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent • 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 SIP IAM → → INVITE RSC → ← 200 OK INVITE RLC ← → ACK → BYE ← 200 OK BYE	

TP309005	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 INVITE message on receipt RSC 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 SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE RSC → ← BYE RLC ← → 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 SIP IAM → → INVITE ← SIP_MESSAGE_VA RSC → RLC ← Case A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK Case B → 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

6.2.2.12 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 ←	

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:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt GRS message **before SIP MESSAGE_VA** response message has been received: • The SUT shall hold the GRS message until a SIP response has been received. • The SUT shall send a CANCEL request. • 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 SIP IAM → → INVITE GRS → GRA ← ← **SIP MESSAGE_VA** → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK	

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 SIP IAM → → INVITE GRS → ← 100 TRYIING GRA ← → CANCEL ← 200 OK INVITE → ACK ← 200 OK CANCEL → BYE ← 200 OK BYE	

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 INVITE 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 SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE GRS → ← BYE GRA ← → 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:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt GRS message **after** an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established: • The SUT shall send a CANCEL request. • 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 SIP IAM → → INVITE ← SIP_MESSAGE_VA GRS → GRA ← 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; 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

TP309013	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 more than one IAM's sending an INVITE message for each call association on receipt of a GRS message were the Range Parameter value is bigger than *"1"*: • the SUT shall send a BYE requests for each call association.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE 1 ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE IAM → → INVITE 2 ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE GRS → ← BYE 1 GRA ← → 200 OK BYE ← BYE 2 → 200 OK BYE	

6.2.2.13 Receipt of Circuit group blocking message (CGB)

TP3090014	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 SIP IAM → CGB → CGBA ←	

TP3090145	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 message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" **before** a **SIP MESSAGE_VA** response message has been received: • The SUT shall hold the CGB message until a SIP 200 OK response has been received. • The SUT shall send a CANCEL request. • 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 SIP IAM → → INVITE CGB → CGBA ← ← **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

TP3090016	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:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" **before** a 200 OK response message has been received: • On subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent • 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 SIP IAM → → INVITE CGB → ← 100 TRYING CGBA ← → CANCEL ← 200 OK INVITE → ACK ← 200 OK CANCEL → BYE ← 200 OK BYE	

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:	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" **after** a 200 OK response message has been received: • The SUT shall send a BYE request. • 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 SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE CGB → ← BYE CGBA ← → 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 message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" **after** an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established: • The SUT shall send a CANCEL request. • 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 SIP IAM → → INVITE ← SIP_MESSAGE_VA CGB → CGBA ← CASE A → CANCEL ← 200 OK CANCEL ← 487 Request terminated → ACK CASE B → BYE ← 200 OK BYE ← 487 Request terminated → ACK	

Table 35

Values for test purpose TP309114; 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	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 more than one IAM's sending an INVITE message for each call association on receipt of a CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" were the Range and Status Parameter value is bigger than *"1"*: • the SUT shall send a BYE requests for each call association.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP SUT SIP IAM → → INVITE 1 ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE IAM → → INVITE 2 ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE CGB → ← BYE 1 CGBA ← → 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)

TP501101	**SIP reference: RFC 3261 [6]**	**ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6**
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1 AND PICS 6/9	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 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 = default number 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:	SIP SUT ISUP INVITE ➔ ➔ IAM	

Table 36

Values for test purposes TP501101			
		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*

TP501102	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has not been received**; • a Privacy header field was received and the priv-value component is set to "none". 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 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	

Table 37

Values for test purposes TP501102			
		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*

TP501103	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has not been received**; • a Privacy header field was received and the priv-value component is set to "header". 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 restricted	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE ➔ ➔ IAM	

TP501104	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has not been received**; • a Privacy header field was received and the priv-value component is set to "user". 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 restricted	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE ➔ ➔ IAM	

TP501105	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has not been received**; • a Privacy header field was received and the priv-value component is set to "id". 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 restricted	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE ➔ ➔ IAM	

TP501106	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1 AND PICS 6/3 AND PICS 6/9	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has been received**; • 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 provided Number Incomplete Indicator = PIXIT Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 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 Indicator = 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 to "international number". SIP INVITE → SUT → ISUP IAM	

Table 38

Values for test purposes TP501106			
		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*

TP501107	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has been received**; • a Privacy header field was received and the priv-value component is set to "none". 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 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 Indicator = Presentation allowed NoAS: NoA_VALUE	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM	

Table 39

Values for test purposes TP501107			
		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*

TP501108	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN has been received; • a Privacy header field was received and the priv-value component is set to "header". 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 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 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 SUT ISUP INVITE → → IAM	

Table 40

Values for test purposes TP501108			
		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*

TP501109	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN has been received; • a Privacy header field was received and the priv-value component is set to "user". 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 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 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 SUT ISUP INVITE → → IAM	

Table 41

Values for test purposes TP501109			
		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*

TP5011010	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has been received**; • a Privacy header field was received and the priv-value component is set to "id". 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 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 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 SUT ISUP INVITE → → IAM	

Table 42

Values for test purposes TP5011010			
		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*

TP5011011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message 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 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 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 to "international number". SIP SUT ISUP INVITE ➔ ➔ IAM	

Table 43

Values for test purposes TP5011011			
		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*

TP5011012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message 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 was received and the priv-value component is set to "none". 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 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 to "international number". SIP INVITE → SUT → ISUP IAM	

Table 44

Values for test purposes TP5011012;			
		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*

TP5011013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message 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 was received and the priv-value component is set to "header". 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	

TP5011014	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message 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 was received and the priv-value component is set to "user". 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	

TP5011015	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message 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 was received and the priv-value component is set to "id". 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	

Table 45: Void.

TP5011016	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 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 been received**; • a Privacy header field has not been received. 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 allowed 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 Indicator = 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 to "international number". SIP SUT ISUP INVITE → → IAM	

Table 46

Values for test purposes TP5011016			
		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*

TP5011017	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 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 been received**; • a Privacy header field was received and the priv-value component is set to "none". 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 allowed 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 Indicator = 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 to "international number". SIP SUT ISUP INVITE → → IAM	

Table 47

Values for test purposes TP5011017			
		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*

TP5011018	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 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 been received**; • a Privacy header field was received and the priv-value component is set to "header". 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 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 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 SUT ISUP INVITE → → IAM	

Table 48

Values for test purposes TP5011018			
		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*

TP5011019	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 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 been received**; • a Privacy header field was received and the priv-value component is set to "user". 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 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 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 SUT ISUP INVITE → → IAM	

Table 49

Values for test purposes TP5011019			
		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*

TP5011020	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
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 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 been received**; • a Privacy header field was received and the priv-value component is set to "id". 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 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 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 SUT ISUP INVITE → → IAM	

Table 50

Values for test purposes TP5011020			
		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*

TP5011021	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 6/1 AND PICS 6/11	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 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 = 0000000 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	

TP5011022	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 1/9	
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: • the SIP **P-Asserted-Identity** containing a SIP URI with an identity 1 in the format "+" CC+ NDC+ SN **has been received** without user = phone; • the SIP **P-Asserted-Identity** containing a Tel URI with an identity 2 in the format "+" CC+ NDC+ SN **has been received**; • a Privacy header field has not been received. 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 numbering plan Address Presentation Restricted Indicator = Presentation allowed NoAS: NoA_VALUE	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM	

TP5011023	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 1/9 AND PICS 6/1 AND PICS 6/12	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 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 = default number Screening indicator = network provided Number Incomplete Indicator = PIXIT Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation restricted by the network NoAS: NoA_VALUE	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE ➔ ➔ IAM	

TP5011024	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 6.1.3.6
TSS reference:	SIP-ISUP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:	PICS 1/9 AND PICS 6/1 AND PICS 6/3 AND PICS 6/12	
Test purpose:	Ensure that the SUT in the Idle state, on receipt 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 a URI with an identity in the format "+" CC+ NDC+ SN **has been** received; • 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 provided Number Incomplete Indicator = PIXIT Numbering plan indicator = ISDN numbering plan 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 = complete Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed NoAS: NoA_VALUE	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP INVITE → SUT → ISUP IAM	

Table 51

Values for test purposes TP5011022, TP5011023, TP5011024			
	Nature of address indicator	**SIP Parameter values:**	**ISUP Parameter value Address Format**
VA_01	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_02	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)

TP502001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	SIP-ISUP/SS/HOLD/	
SIP selection criteria:	PICS 5/5	
ISUP selection 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. • 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.	
SIP Parameter values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)	
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:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM INVITE(sendonly) → → CPG(hold) 200 OK(recvonly) ← INVITE → → CPG(retrieve) 200 OK(sendrecv or absent) ← INVITE(sendonly) ← ← CPG(hold) 200 OK(recvonly →	
	INVITE(sendrecv or absent) ← ← CPG(retrieve) 200 OK(sendrecv or absent) →	

TP502002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	SIP-ISUP/SS/HOLD/	
SIP selection criteria:	PICS 8/1 AND PICS 5/5	
ISUP selection criteria:		
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 values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)	
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:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM UPDATE(sendonly) → → CPG(hold) 200 OK(recvonly) ← UPDATE(sendrev or absent) → → CPG(retrieve) 200 OK(sendrecv or absent) ←	

TP502003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	SIP-ISUP/SS/HOLD/	
SIP selection criteria:	PICS 8/2 AND PICS 5/5	
ISUP selection 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 values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)	
ISUP Parameter values:	ACM: called party status: no indication CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold) Generic notification: remote retrieval event indicator PROGRESS (retrieve the call)	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM UPDATE**(sendonly)** → → CPG**(hold)** **200 OK(recvonly)** ← UPDATE**(sendrecv or absent)** ← → CPG**(retrieve)** **200 OK(sendrecv or absent)** ←	

Table 52

Values for test purpose TP502001, TP502002, TP502003		
←CPG Generic notification GEN_NOT_VALUE		← INVITE SDP attribute line a_LINE_VA
VA_01	Remote hold	sendonly
VA_02	Remote hold	inactive

6.3.1.3 Terminal portability (TP)

TP503001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	SIP-ISUP/SS/TP/	
SIP selection criteria:	PICS 8/3	
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 values:	SDP: a=sendonly or a=inactive (suspended) a=sendrecv or a=recvonly or omitted (resumed)	
ISUP Parameter values:	SUS: Suspend/Resume indicator ISDN subscriber initiated RES: Suspend/Resume indicator ISDN subscriber initiated	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM INVITE ← ← SUS INVITE ← ← RES	

TP503002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	SIP-ISUP/SS/TP/	
SIP selection criteria:	PICS 5/6	
ISUP selection criteria:	PICS 4/19	
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/Resume indicator ISDN subscriber initiated	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM INVITE ← ← SUS T2 expiry BYE ← ← REL 200 OK BYE → → RLC	

Table 53: Void.

6.3.1.4 Conference calling (CONF)

TP504001	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), 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 **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.	
SIP Parameter values:	SDP: a= **a_LINE_VA** (see table 54) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM If **the media stream is either in state "sendonly" or "inactive"** INVITE ← ← CPG INVITE ← ← CPG BYE ← ← REL 200 OK BYE → → RLC	

TP504002	SIP reference: RFC 3261 [6]	NGN reference: **ES 283 027 (see bibliography), clause 7.4.14**
TSS reference:	SIP-ISUP/SS/CONF/	
SIP selection criteria:	PICS 8/1	
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 "reattached" was received due to the CONF supplementary service in the ALERTING state. • If the media stream is either in state "sendonly" or "inactive" then: INVITE with the attribute line "a=sendrecv", or omitted attribute line, or "a= recvonly" for the offered media stream, else: no mapping.	
SIP Parameter values:	SDP: a= **a_LINE_VA** (see table 54) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM If **the media stream is either in state "sendonly" or "inactive"** UPDATE ← ← CPG UPDATE ← ← CPG BYE ← ← REL 200 OK BYE → → RLC	

Table 54

Values for test purpose TP504001, TP504002		
←INVITE/UPDATE SDP attribute line a_LINE_VA		← CPG Generic notification GEN_NOT_VALUE
VA_01	sendrecv, or recvonly	Conference established
VA_02	sendrecv or recvonly	Conference disconnected

TP504003	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), 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 **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.	
SIP Parameter values:	SDP: a= **a_LINE_VA** (see table 55) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM If **the media stream is either in state "sendonly" or "inactive"** INVITE ← ← CPG INVITE ← ← CPG BYE ← ← REL 200 OK BYE → → RLC	

TP504004	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.14
TSS reference:	SIP-ISUP/SS/CONF/	
SIP selection criteria:	• PICS 8/1	
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 in the ALERTING state. • If the media stream is either in state "sendonly" or "inactive" then: INVITE with the attribute line "a=sendrecv", or omitted attribute line, or "a= recvonly" for the offered media stream. 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 established CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM If **the media stream is either in state "sendonly" or "inactive"** UPDATE ← ← CPG UPDATE ← ← CPG BYE ← ← REL 200 OK BYE → → RLC	

Table 55

Values for test purpose TP504003, TP504004		
	←INVITE/UPDATE SDP attribute line a_LINE_VA	← CPG Generic notification GEN_NOT_VALUE
VA_01	sendonly or inactive	isolated
VA_02	sendrecv or recvonly or omitted	reattached

TP504005	**SIP reference: RFC 3261 [6]**	**NGN reference: ITU-T Rec Q.1912.5 [1], annex B.14**
TSS reference:	SIP-ISUP/SS/CONF/	
SIP selection criteria:	• NOT PICS 8/1 AND NOT PICS 8/2	
ISUP selection 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	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = isolated CPG: Generic notification = reattached CPG: Generic notification = Conference disconnected	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← CPG ← CPG ← CPG ← CPG BYE ← ← REL 200 OK BYE → → RLC	

6.3.1.5 Three Party service (3PTY)

TP505001	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.15
TSS reference:	SIP-ISUP/SS/3PTY/	
SIP selection criteria:	PICS 8/2	
ISUP selection criteria:	PICS 5/5 AND PICS 5/19	
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 values:	CPG: notification = remote hold CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM INVITE ← ← CPG(hold) INVITE ← ← CPG INVITE ← ← CPG BYE ← ← REL 200 OK BYE → → RLC	

TP505002	SIP reference: RFC 3261 [6]	NGN reference: **ES 283 027 (see bibliography), clause 7.4.15**
TSS reference:	SIP-ISUP/SS/3PTY/	
SIP selection criteria:	PICS 8/2	
ISUP selection criteria:	PICS 5/5 AND PICS 5/19	
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 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 values:	SDP: a=**a_LINE_VA** (see table 56)	
ISUP Parameter values:	CPG: Generic notification = remote hold CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	SIP → SUT → ISUP INVITE → IAM 180 Ringing ← ACM UPDATE ← CPG(hold) UPDATE ← CPG UPDATE ← CPG BYE ← REL 200 OK BYE → RLC	

Table 56

Values for test purpose TP505001, TP505002		
←INVITE/UPDATE SDP attribute line a_LINE_VA		← CPG Generic notification 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 (see bibliography), clause 7.4.15
TSS reference:	SIP-ISUP/SS/3PTY/	
SIP selection criteria:	• NOT PICS 8/1 AND NOT PICS 8/2	
ISUP selection criteria:		
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 values:	No mapping	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = Conference disconnected	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ← CPG(hold) ← CPG ← CPG BYE ← ← REL 200 OK BYE → → RLC	

6.3.1.6 Connected line identification (COL)

TP506001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec 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 connected number is received in an ANM, does not disrupt the SIP signalling procedure. The connected number is not mapped into any SIP message.	
SIP Parameter values:		
ISUP Parameter values:	ANM: Connected number Parameter	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.7 Malicious call identification MCID

TP507001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.4
TSS reference:	SIP-ISUP/SS/MCID/	
SIP selection criteria:	PICS 9/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if an IDR is received returns an IRS message. The MCID response indicator is set to "MCID not included". The SIP signalling procedure is not disrupted.	
SIP Parameter values:	No influence	
ISUP Parameter values:	IDR: MCID requested IRS: MCID not included	
Comments:	SIP — SUT — ISUP INVITE → → IAM ← IDR → IRS 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP507002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.4
TSS reference:	SIP-ISUP/SS/MCID/	
SIP selection criteria:	NOT PICS 9/1	
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if an IDR is received, no IDR is sent. The SIP signalling procedure is not disrupted.	
SIP Parameter values:	No influence	
ISUP Parameter values:	IDR: MCID requested	
Comments:	SIP — SUT — ISUP INVITE → → IAM ← IDR T39 timeout 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.8 Sub-addressing (SUB)

TP508001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.5
TSS reference:	SIP-ISUP/SS/SUB/	
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	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.9 Call diversion (CDIV)

TP509001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if an ACM is received with called party status indicator "no indication" and **call diversion may occur** indicator in the optional backward call indicator is set to "call diversion may occur", the SIP signalling procedure is not disrupted (CDa, CFNR).	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ACM optional backward call indicator	
Comments:	SIP SUT ISUP INVITE → → IAM ← ACM 180 Ringing ← ← CPG 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP509002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [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 containing a **Redirection number, call diversion information, redirection number restriction and generic notification set to "Call is diverting"**, the SIP signalling procedure is not disrupted (CFU, CFB, Cdi).	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ACM: Redirection number, Call diversion information, Redirection number restriction, Generic notification	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP509003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if a CPG is received containing a **Redirection number, call diversion information, redirection number restriction and generic notification set to "Call is diverting"**, the SIP signalling procedure is not disrupted (Cda, CFNR, subsequent redirection).	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ACM: Called party status "Subscriber free" CPG: Redirection number, Call diversion information, Generic notification	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM ← CPG 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP509004	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.6
TSS reference:	SIP-ISUP/SS/CDIV/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if an ANM is received with **redirection number restriction parameter**, the SIP signalling procedure is not disrupted.	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ANM: Redirection number restriction	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.10 Call waiting (CW)

TP510001	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:	Ensure that the SUT if an ACM with **Generic notification parameter = "Call is a waiting call"**, the SIP signalling procedure is not disrupted.	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ACM: Generic notification parameter = "Call is a waiting call"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → 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:	Ensure that the SUT if a CPG with **Generic notification parameter = "Call is a waiting call"**, the SIP signalling procedure is not disrupted.	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ACM: Called party status "Subscriber free" CPG: Generic notification parameter = "Call is a waiting call"	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM ← CPG 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.11 User to user signalling (UUS)

TP511001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	SIP-ISUP/SS/UUS/	
SIP selection criteria:		
ISUP selection criteria:	PICS 11/1 AND PICS 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-user indicator = "Service 3 not provided"	
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation ← FAR → FRJ Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

TP511002	SIP reference: RFC 3261 [6]			ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	SIP-ISUP/SS/UUS/			
SIP selection criteria:				
ISUP selection criteria:	NO PICS 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, the SIP signalling procedure is not disrupted.			
SIP Parameter values:				
ISUP Parameter values:				
Comments:	SIP		SUT	ISUP
	INVITE	→	→	IAM
	180 Ringing	←	←	ACM
	200 OK INVITE	←	←	ANM
		Conversation	Conversation	
			←	FAR
		Conversation	Conversation	
	BYE	→	→	REL
	200 OK BYE	←	←	RLC

6.3.1.12 Explicit call transfer (ECT)

TP512001	SIP reference: RFC 3261 [6]			ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/COL/			
SIP selection criteria:				
ISUP selection criteria:	PICS 12/1			
Test purpose:	Ensure that the SUT if a LOP(request) is received returns a LOP (response) with the indication "insufficient information" continue without disrupting the SIP signalling procedure. Ensure that the SUT if a FAC is received continue without disrupting the SIP signalling procedure.			
SIP Parameter values:				
ISUP Parameter values:	LOP: Response "insufficient information"			
Comments:	SIP		SUT	ISUP
	INVITE	→	→	IAM
	180 Ringing	←	←	ACM
	200 OK INVITE	←	←	ANM
		Conversation	Conversation	
			←	LOP
			→	LOP
			←	FAC
		Conversation	Conversation	
	BYE	→	→	REL
	200 OK BYE	←	←	RLC

TP512002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/COL/	
SIP selection criteria:		
ISUP selection criteria:	NO PICS 12/1	
Test purpose:	Ensure that the SUT if a LOP(request) is received continue without disrupting the SIP signalling procedure. Ensure that the SUT if a FAC is received continue without disrupting the SIP signalling procedure.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP — SUT — ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation ← LOP ← FAC Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.13 Completion of Call to Busy Subscriber (CCBS)

TP513001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/CCBS/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if a REL is received contained a Diagnostic field and the CCBS indicator is coded as CCBS possible: • continue without disrupting the SIP signalling procedure.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP — SUT — ISUP INVITE → → IAM BYE ← ← REL 200 OK BYE → → RLC	

6.3.1.14 Completion of Calls on No reply (CCNR)

TP514001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/CCNR/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if a ACM is received and a CCNR Possible Indicator is included: • continue without disrupting the SIP signalling procedure.	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← RLC	

6.3.1.15 Anonymous Call Rejection (ACR)

TP515001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/ACR/	
SIP selection criteria:		
ISUP selection criteria:	PICS 1/9	
Test purpose:	Ensure that the 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 supplementary service".	
SIP Parameter values:	INVITE: Privacy-header = "id" 603 Decline: Reason header field Reason: ITU-T Rec Q.850 [5];cause=24	
ISUP Parameter values:	REL: Cause value: 24 "call rejected due to ACR supplementary service"	
Comments:	SIP SUT ISUP INVITE → → IAM 603 Decline ← ← REL ACK → → RLC	

TP515002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	SIP-ISUP/SS/ACR/	
SIP selection criteria:		
ISUP selection criteria:	PICS 1/9 AND PICS 6/12	
Test purpose:	Ensure that the SUT if a destination user has subscribed the ACR supplementary service: • the call attempt is successful.	
SIP Parameter values:	INVITE: No P-Asserted-Identity header field and no Privacy header field present	
ISUP Parameter values:	IAM: Calling party number Address presentation restriction is set to "Presentation restricted by the network"	
Comments:	SIP SUT ISUP INVITE → → IAM 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM Conversation Conversation BYE → → REL 200 OK BYE ← ← 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: ITU-T Rec Q.1912.5 [1], clause 7.1.2
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter and the Generic Number are not applicable: • Sends an INVITE message without the "P-Asserted-Identity header field", a "From header field" set to unavailable@hostportion and without a "Privacy Header field".	
SIP Parameter values:		
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE	

TP61002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	PICS 4/18	
ISUP selection criteria:		
Test purpose:	Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter is not applicable and the Generic Number is applicable whereby the address presentation restriction parameter is set to "presentation allowed" and the Nature of Address Indicator is set to NoAS_VALUE: • Sends an INVITE message without the "P-Asserted-Identity header field", a "From header field" and without a "Privacy Header field".	
SIP Parameter values:	P-Asserted-Identity header field: not included: Addr-spec: 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) Privacy header: is not included	
ISUP Parameter values:	Generic Number: "additional calling party number" Nature of Address Indicator: NoAS_VALUE	
Comments:	ISUP/BICC SUT SIP 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.

TP61003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	NOT PICS 4/18	
ISUP selection criteria:		
Test purpose:	Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter is not applicable and the Generic Number is applicable whereby the address presentation restriction parameter is set to "presentation allowed" and the Nature of Address Indicator is set to NoAS_VALUE • Sends an INVITE message without the "P-Asserted-Identity header field", a "From header field" and without a "Privacy Header field".	
SIP Parameter values:	P-Asserted-Identity header field: not included: Addr-spec: not included From header field: Display-name (optional) and addr-spec: Addr-spec: Addr_SPEC_ID Display-name: not supported Privacy header: is not included.	
ISUP Parameter values:	Generic Number: "additional calling party number" 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: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	PICS 4/18 AND PICS 4/25	
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 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: 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 SIP IAM ➔ ➔ INVITE	

Table 59

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

TP601005	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	NOT PICS 4/18 AND PICS 4/25	
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 IAM ➔ SUT ➔ SIP INVITE	

Table 60

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

TP601006	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	PICS 4/18 AND PICS 4/25	
ISUP selection criteria:		
Test purpose:	Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is not applicable: • Sends an INVITE message with the "P-Asserted-Identity header field" where the "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 IAM → SUT → SIP INVITE	

Table 61

Values for test purpose TP601006		
	ISUP Parameter values:	**SIP Parameter values:**
VA_01	**IAM** NoAS_VALUE: "*national (significant) number"(NDC+SN)*	**INVITE** 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** NoAS_VALUE: "*international number" ("+"CC+NDC+SN)*	**INVITE** 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: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	NOT PICS 4/18 AND PICS 4/25	
ISUP selection criteria:		
Test purpose:	Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is not applicable: • Sends an INVITE message with the "P-Asserted-Identity header field" where the "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: not supported Privacy header: "id".	
ISUP Parameter values:		
Comments:	ISUP/BICC IAM ➔ SUT ➔ SIP INVITE	

Table 62

Values for test purpose TP601007		
	ISUP Parameter values:	**SIP Parameter values:**
VA_01	**IAM** NoAS_VALUE: "*national (significant) number"(NDC+SN)*	**INVITE** 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** NoAS_VALUE: "*international number" ("+"CC+NDC+SN)*	**INVITE** PAIh_Addr_SPEC_ID= FHf_Addr_SPEC_ID: the complete to CgPN Signals is mapped to the user portion of URI scheme.

TP601008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	PICS 4/18 AND PICS 4/25	
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: 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 hbvalues:	Generic Number: "additional calling party number" 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 purposes	**ISUP Parameter values:**	**SIP Parameter values:**	
VA_01	**IAM** 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: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	NOT PICS 4/18 AND PICS 4/25	
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: 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: not supported Privacy header: is not included or if included, "id" is not included.	
ISUP Parameter hbvalues:	Generic Number: "additional calling party number" Nature of Address Indicator: CP_NoAS_VALUE APRI: presentation restricted	
Comments:	ISUP/BICC SUT SIP IAM ➔ ➔ INVITE	

Table 63

Values for test purpose TP601009			
	ISUP Parameter values:	**SIP Parameter values:**	
VA_01	**IAM** 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.

TP601010	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	PICS 4/18 AND PICS 4/25	
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 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:	Generic Number: "additional calling party number" Nature of Address Indicator: NoAS_VALUE APRI: presentation restricted	
Comments:	ISUP/BICC SUT SIP IAM ➔ ➔ INVITE	

Table 64

Values for test purpose TP601010			
	ISUP Parameter values:	**SIP Parameter values:**	
VA_01	**IAM** 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.

TP601011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], clause 7.1.3
TSS reference:	ISUP-SIP/SS/CLI/	
SIP selection criteria:	NOT PICS 4/18 AND PICS 4/25	
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 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: 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 SIP IAM ➔ ➔ INVITE	

Table 65

Values for test purpose TP601011			
Test purposes	**ISUP Parameter values:**	**SIP Parameter values:**	
VA_01	**IAM** 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.

6.3.2.2 Call Hold (HOLD)

TP602001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	ISUP-SIP/SS/HOLD/	
SIP selection criteria:		
ISUP selection criteria:	PICS 5/5	
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. • 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 values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)	
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:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE CPG(hold) → → INVITE(sendonly) ← 200 OK(recvonly) CPG(retrieve) → → INVITE(sendrecv or absent) ← 200 OK(sendrecv or absent) CPG(hold) ← ← INVITE(sendonly) → 200 OK(recvonly) CPG(retrieve) ← ← INVITE(sendrecv or absent) → 200 OK(sendrecv or absent)	

Table 66

Values for test purpose TP602001		
←CPG Generic notification GEN_NOT_VALUE		← INVITE SDP attribute line a_LINE_VA
VA_01	Remote hold	sendonly
VA_02	Remote hold	inactive

TP602002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	ISUP-SIP/SS/HOLD/	
SIP selection criteria:		
ISUP selection criteria:	PICS 5/5 AND PICS 8/1	
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 values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)	
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:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing CPG(hold) → → UPDATE(sendonly) ← 200 OK(recvonly) CPG(retrieve) → → UPDATE(sendrecv or absent) ← 200 OK(sendrecv or absent)	

TP602003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.10
TSS reference:	ISUP-SIP/SS/HOLD/	
SIP selection criteria:		
ISUP selection criteria:	PICS 5/5 AND PICS 8/2	
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 values:	SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)	
ISUP Parameter values:	ACM: called party status: no indication CPG: Generic notification: remote hold Event indicator PROGRESS (put on hold) Generic notification: remote retrieval event indicator PROGRESS (retrieve the call)	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing CPG(hold) → → UPDATE(sendonly) ← 200 OK(recvonly) CPG(retrieve) → → UPDATE(sendrecv or absent) ← 200 OK(sendrecv or absent)	

6.3.2.3 Terminal portability (TP)

TP603001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.13
TSS reference:	ISUP-SIP/SS/TP/	
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 values:	SDP: a=sendonly or a=inactive (suspended) a=sendrecv or a=recvonly or omitted (resumed)	
ISUP Parameter values:	SUS: Suspend/Resume indicator ISDN subscriber initiated RES: Suspend/Resume indicator ISDN subscriber initiated	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE SUS → → INVITE RES → → INVITE	

TP603002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.13
TSS reference:	ISUP-SIP /SS/TP/	
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 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/Resume indicator ISDN subscriber initiated	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE SUS → → INVITE T2 expiry REL → → BYE RLC ← ← 200 OK BYE	

6.3.2.4 Conference calling (CONF)

TP604001	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.14
TSS reference:	ISUP-SIP/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 **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.	
SIP Parameter values:	SDP: a= **a_LINE_VA** (see table 67) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE CPG → → INVITE CPG → → INVITE REL → → BYE RLC ← 200 OK BYE	

TP604002	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.14
TSS reference:	ISUP-SIP/SS/CONF/	
SIP selection criteria:	PICS 8/1	
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 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 values:	SDP: a= **a_LINE_VA** (see table 67) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing CPG → → UPDATE CPG → → UPDATE REL → → BYE RLC ← 200 OK BYE	

Table 67

Values for test purpose TP604001, TP604002			
		CPG→ Generic notification GEN_NOT_VALUE	INVITE/UPDATE→ SDP attribute line a_LINE_VA
VA_01	Conference established		sendrecv, or recvonly
VA_02	Conference disconnected		sendrecv or recvonly

TP604003	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.14
TSS reference:	ISUP-SIP/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 **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.	
SIP Parameter values:	SDP: a= **a_LINE_VA** (see table 68) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE CPG → → INVITE CPG → → INVITE CPG → → INVITE REL → → BYE RLC ← 200 OK BYE	

TP604004	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.14
TSS reference:	ISUP-SIP/SS/CONF/	
SIP selection criteria:	PICS 8/1	
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 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 values:	SDP: a= **a_LINE_VA** (see table 68) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing CPG → → UPDATE CPG → → UPDATE CPG → → UPDATE REL → → BYE RLC ← 200 OK BYE	

Table 68

Values for test purpose TP604001, TP604002		
	CPG→ Generic notification GEN_NOT_VALUE	INVITE/UPDATE→ SDP attribute line a_LINE_VA
VA_01	isolated	sendonly or inactive
VA_02	reattached	sendrecv or recvonly or omitted

TP604005	**SIP reference: RFC 3261 [6]**			**ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.14**
TSS reference:	ISUP-SIP/SS/CONF/			
SIP selection criteria:	NOT PICS 8/1			
ISUP selection criteria:	PICS 5/10			
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			
ISUP Parameter values:	CPG: Generic notification = Conference established CPG: Generic notification = isolated CPG: Generic notification = reattached CPG: Generic notification = Conference disconnected			
Comments:	ISUP/BICC		SUT	SIP
	IAM	→	→	INVITE
	ACM	←	←	180 Ringing
	ANM	←	←	200 OK INVITE
	CPG	→		
	CPG	→		
	CPG	→		
	CPG	→		
	REL	→	→	BYE
	RLC	←		200 OK BYE

6.3.2.5 Three Party service (3PTY)

TP605001	SIP reference: RFC 3261 [6]	NGN reference: ES 283 027 (see bibliography), clause 7.4.15
TSS reference:	ISUP-SIP/SS/3PTY/	
SIP selection criteria:	PICS 8/2	
ISUP selection criteria:	PICS 5/5 AND PICS 5/19	
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	
SIP Parameter values:	SDP: a= **a_LINE_VA** (see table 69) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = remote hold CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 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 (see bibliography), clause 7.4.15
TSS reference:	ISUP-SIP/SS/3PTY /	
SIP selection criteria:	PICS 8/1	
ISUP selection criteria:	PICS 5/5 AND PICS 5/19	
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 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 values:	SDP: a= **a_LINE_VA** (see table 69) or a line is omitted	
ISUP Parameter values:	CPG: Generic notification = remote hold CPG: Generic notification = **GEN_NOT_VALUE**	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing CPG → → UPDATE CPG → → UPDATE CPG → → UPDATE REL → → BYE RLC ← 200 OK BYE	

Table 69

Values for test purpose TP605001, TP605002		
	CPG→ Generic notification GEN_NOT_VALUE	INVITE/UPDATE→ SDP attribute line 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**
TSS reference:	ISUP-SIP/SS/3PTY/	
SIP selection criteria:	NOT PICS 8/1 AND NOT PICS 8/2	
ISUP selection criteria:		
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 values:	No mapping	
ISUP Parameter values:	CPG: Generic notification = remote hold CPG: Generic notification = Conference established CPG: Generic notification = Conference disconnected	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE CPG → CPG → CPG → REL → → BYE RLC ← 200 OK BYE	

6.3.2.6 Connected line identification (COL)

TP606001	**SIP reference: RFC 3261 [6]**	**ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.2**
TSS reference:	ISUP-SIP/SS//COL /	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if the IAM is received with an optional forward call indicator, connected line requested, continue without disrupting the SIP or ISUP signalling procedure.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

6.3.2.7 Sub-addressing (SUB)

TP607001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.5
TSS reference:	ISUP-SIP/SS/ SUB /	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if the IAM is received with an ATP containing a calling sub-address, continue without disrupting the SIP or ISUP signalling procedure.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

6.3.2.8 Closed user group (CUG)

TP608001	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 with Optional forward call indicator, CUG call indicator coded as "**CUG call with outgoing access**" and CUG interlock code or CUG call indicator coded as "Non CUG call" or Optional forward call indicator is absent, the SIP signalling procedure is not disrupted.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → 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 with Optional forward call indicator, CUG call indicator coded as "**CUG call without outgoing access**" and CUG interlock code, a **REL** is sent. No INVITE is sent into the SIP network.	
SIP Parameter values:	No action	
ISUP Parameter values:	REL: Cause #29	
Comments:	ISUP/BICC SUT SIP IAM → REL ← RLC →	

6.3.2.9 Call diversion (CDIV)

TP609001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annexes B.6 and B.7
TSS reference:	ISUP-SIP/SS/ CDIV /	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if the IAM is received with **Redirecting number, original called number and redirection information**, continue without disrupting the SIP or ISUP signalling procedure.	
SIP Parameter values:	No mapping	
ISUP Parameter values:	IAM: Redirecting number, Original called number, Redirection information	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

6.3.2.10 User to user signalling (UUS)

TP610001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:		
Test purpose:	Ensure that the SUT if the IAM is received with **User-to-user information as an implicit service 1 request** returns a User-to-user indicator in the ACM "UUI discarded by the network" and continue without disrupting the SIP or ISUP signalling procedure.	
SIP Parameter values:	No mapping	
ISUP Parameter values:	ACM: User-to-indicator "UUI discarded by the network", Service 1 response "No indication"	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 with an **explicit service 1 request "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 "UUI discarded by the network", Service 1 response "No indication"	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610003	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 with an **explicit service 1 request** "essential" returns a REL with cause #29 or #69 and an diagnostics containing the user-to-user indicator parameter name.	
SIP Parameter values:	No action	
ISUP Parameter values:	REL: cause #29 or cause 69, diagnostics value 0x2a	
Comments:	ISUP/BICC SUT SIP IAM → REL ← RLC →	

TP610004	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 with an **explicit service 2 request** "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 2 response "Not provided"	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610005	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 with an **explicit service 2 request** "essential" returns a REL with cause #29 or #69 and an diagnostics containing the user-to-user indicator parameter name.	
SIP Parameter values:	No action	
ISUP Parameter values:	REL: cause #29 or cause 69, diagnostics value 0x2a	
Comments:	ISUP/BICC SUT SIP IAM → REL ← RLC →	

TP610006	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 with an **explicit service 3 request** "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 "UUI discarded by the network", Service 3 response "Not provided"	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610007	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 with an **explicit service 3 request** "essential" returns a REL with cause #29 or #69 and an diagnostics containing the user-to-user indicator parameter name.	
SIP Parameter values:	No action	
ISUP Parameter values:	REL: cause #29 or cause 69, diagnostics value 0x2a	
Comments:	ISUP/BICC SUT SIP IAM → REL ← RLC →	

TP610008	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
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 FAR is received with an **explicit service 3 request** "Not essential" returns a FRJ with cause #29 or #69.	
SIP Parameter values:	No action	
ISUP Parameter values:	FRJ: User-to-user indicator = "Service 3 not provided"	
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation FAR → FRJ ← Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610009	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received with an **explicit service 1 request** "Not essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610010	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received with an **explicit service 1 request** "essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No action	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610011	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received with an **explicit service 2 request** "Not essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610012	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received with an explicit **service 2 request** "essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No action	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610013	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received with an **explicit service 3 request** "Not essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610014	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the IAM is received with an **explicit service 3 request** "essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No action	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP610015	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.21
TSS reference:	ISUP-SIP/SS/ UUS /	
SIP selection criteria:		
ISUP selection criteria:	NOT PICS 11/2	
Test purpose:	Ensure that the SUT if the FAR is received with an **explicit service 3 request** "Not essential" continue without disrupting the SIP or ISUP signalling procedure. No response to this request.	
SIP Parameter values:	No action	
ISUP Parameter values:		
Comments:	ISUP/BICC SUT SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation FAR → Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

6.3.2.11 Explicit call transfer (ECT)

TP611001	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	ISUP-SIP/SS/ECT/	
SIP selection criteria:		
ISUP selection criteria:	PICS 12/1	
Test purpose:	Ensure that the SUT if a LOP(request) is received returns a LOP (response) with the indication "insufficient information" continue without disrupting the SIP signalling procedure. Ensure that the SUT if a FAC is received continue without disrupting the SIP signalling procedure.	
SIP Parameter values:	No mapping	
ISUP Parameter values:	LOP: Response "insufficient information"	
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation LOP → LOP ← FAC → Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

TP611002	SIP reference: RFC 3261 [6]	ISUP reference: ITU-T Rec Q.1912.5 [1], annex B.8
TSS reference:	ISUP-SIP/SS/ECT/	
SIP selection criteria:		
ISUP selection criteria:	NO PICS 12/1	
Test purpose:	Ensure that the SUT if a LOP(request) is received continue without disrupting the SIP signalling procedure. Ensure that the SUT if a FAC is received continue without disrupting the SIP signalling procedure.	
SIP Parameter values:	No mapping	
ISUP Parameter values:		
Comments:	ISUP/BICC — SUT — SIP IAM → → INVITE ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE Conversation Conversation LOP → FAC → Conversation Conversation REL → → BYE RLC ← 200 OK BYE	

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History

Document history		
V1.1.1	February 2006	Publication