# ETSI TS 101 572-2 V1.1.1 (2013-10)



Core Network and Interoperability Testing (INT); Conformance tests according to 3GPP<sup>TM</sup> 29.235 Release 10; Interworking between SIP-I based circuit-switched core network and other networks;

Part 2: SIP-I / SIP NNI
Test Suite Structure and Test Purposes (TSS&TP)

#### Reference

DTS/INT-00055-2

Keywords
ISUP, SIP, testing, TSS&TP

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#### **Foreword**

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

The present document is part 2 of a multi-part deliverable covering SIP NNI - SIP-I Interworking described in the clauses 7.2 and 7.3 of TS 129 235 (Release 10) [1], as identified below:

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

Part 2: "SIP-I / SIP NNI Test Suite Structure and Test Purposes (TSS&TP)".

# 1 Scope

The present document specifies the Test Suite Structure and Test Purposes for SIP - SIP-I Interworking described in the clauses 7.2 and 7.3 of TS 129 235 (Release 10) [1].

## 2 References

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

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#### 2.1 Normative references

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

- [1] ETSI TS 129 235: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 10.1.0 Release 10)".

  [2] ETSI TS 129 163: "Digital cellular telecommunications system (Phase 2+); Universal Mobile
- Telecommunications System (UMTS); LTE; Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 Release 8)".

  ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing
- methodology and framework Part 1: General concepts".

  [4] Recommendation ITU-T T.38: "Procedures for real-time Group 3 facsimile communication over
- IP networks".
- [5] Recommendation ITU-T Q.850: "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part".
- [6] ETSI TS 101 572-1: "Core Network and Interoperability Testing (INT); Conformance tests according to 3GPP<sup>TM</sup> 29.235 Release 10; Interworking between SIP-I based circuit-switched core network and other networks; Part 1: Protocol Implementation Conformance Statement (PICS)".

#### 2.2 Informative references

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

[i.1] Recommendation ITU-T E.164: "The international public telecommunication numbering plan".

# 3 Definitions, symbols and abbreviations

# 3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] and the following apply:

**Implementation Under Test (IUT):** Refer to ISO/IEC 9646-1 [3].

System Under Test (SUT): Refer to ISO/IEC 9646-1 [3].

**Test Purpose (TP):** Refer to ISO/IEC 9646-1 [3].

# 3.2 Symbols

For the purposes of the present document, the symbols given in [1] apply.

#### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in [1] and the following apply:

ACM Address Complete Message
IAM Initial Address Message
IUT Implementation Under Test
oBCI optional Backward Call Indicator
oFCI optional Forward Call Indicator

REL RELease message
SUT System Under Test
TP Test Purpose

# 4 Test Suite Structure (TSS)

The Test Suite Structure is in close alignment with TS 129 235 [1] and TS 129 163 [2].

SIP NNI -SIP-I			
	Basic call	Sending_of_INVITE (IAM)	TP_101_xxx
			TP_102_xxx
			TP_103_xxx
			TP_104_xxx
			TP_105_xxx
			TP_106_xxx
			TP_107_xxx
			TP_108_xxx
			TP_109_xxx
			TP_110_xxx

SIP-I -SIP NNI			
	Basic call	Sending_of_INVITE	TP_201_xxx
			TP_202_xxx
			TP_203_xxx
			TP_204_xxx
			TP_205_xxx
			TP_206_xxx
			TP_207_xxx
			TP_208_xxx
			TP_209_xxx
			TP_210_xxx
			TP_211_xxx
			TP_212_xxx

PSTN-SS		
	PSTN-SS/COL	TP_302_xxx
	PSTN-SS/MCID	TP_303_xxx
	PSTN-SS/SUB	TP_304_xxx
	PSTN-SS/CDIV	TP_305_xxx
	PSTN-SS/ECT	TP_306_xxx
	PSTN-SS/CW	TP_307_xxx
	PSTN-SS/HOLD	TP_308_xxx
	PSTN-SS/CCBS	TP_309_xxx
	PSTN-SS/CCNR	TP_310_xxx
	PSTN-SS/TP	TP_311_xxx
	PSTN-SS/CONF	TP_312_xxx
	PSTN-SS/CUG	TP_313_xxx
	PSTN-SS/MLPP	TP_314_xxx
	PSTN-SS/GVNS	TP_315_xxx
	PSTN-SS/REV	TP_316_xxx
	PSTN-SS/UUS	TP_317_xxx
	PSTN-SS/ACR	TP_318_xxx

IMS-SS		
	IMS-SS/OIP-OIR	TP_401_xxx
	IMS-SS/TIP-TIR	TP_402_xxx
	IMS-SS/CDIV	TP_403_xxx
	PSTN-SS/CONF	TP_404_xxx
	IMS-SS/MCID	TP_406_xxx
	IMS-SS/CUG	TP_407_xxx
	IMS-SS/CC	TP_408_xxx
	IMS-SS/CW	TP_409_xxx

# 5 Test Purposes (TP)

# 5.1 Introduction

For each requirement in [2] a TP is defined.

## 5.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 5.1.1-1).

Table 5.1.1-1: TP identifier naming convention scheme

Identifier:	Identifier: TP_ <group>_<nnn></nnn></group>				
<group< th=""><th>&gt; =</th><th>group</th><th>3 digit field representing group reference according to TSS</th></group<>	> =	group	3 digit field representing group reference according to TSS		
<nnn></nnn>	=	TP number	3 digit sequential number (001 to 999)		

### 5.1.2 Test strategy

As the base standard TS 129 235 [1] and TS 129 163 [2] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 101 572-1 [6]. The criteria applied include the following:

• whether or not a test case can be built from the TP is not considered.

### 5.1.3 Test purpose structure

The test purpose structure is according to the test suite structure (TSS). The Reference column in each Test Purpose refers to the basic specification except stated explicitly.

# 6 Test purposes (TP)

# 6.1 SIP NNI -SIP-I protocol interworking

# 6.1.1 Signalling Interworking of a Call from the IP Multimedia Subsystem towards the SIP-I based circuit-switched core network

#### 6.1.1.1 Sending of INVITE (IAM)

TP number	TP_101_001	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic c	all/Sending_of_ SIP-INVIT	E request /
Selection criteria			
Test Purpose name	Sending of SIP-INVITE	request	
Test Purpose	· ·	on of a SIP-INVITE request th encapsulated IAM mess	ing a session, the I-MGCF sends a age.
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	← 100 Trying
		Apply post test	routine

	P NNI - SIP-I/Basic call/Sendi	( OID INDUTE	[2], clause 7.2.3.1.1		
	I ININI - OII -I/Dasic call/oeriu	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
	CS 6 1 1/1 AND DICS 6 2 1/1	PICS 6.1.1/1 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
	reconditions support indicated		_		
			upport of Procondition is		
	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The INVITE with encapsulated IAM is immediately sent.				
	The Nature of connection indicator is set to 'continuity check performed on a previous circuit' or 'continuity check required'. After the UPDATE was received, a UPDATE is sent				
	M: Nature of connection indic				
	ontinuity check required'	ator = continuity chock points	med on a providuo on dan or		
	IVITE: Supported: preconditio	n 100rel			
	SDP a=curr:qos local r				
	a=curr:qos remot				
		atory local sendrecv			
	a=des:qos none r				
	•				
18	33: Require: 100rel				
	SDP a=curr:qos local r				
	a=curr:qos remot				
		atory local sendrecv			
		atory remote sendrecv			
	a=conf:qos remot	e sendrecv			
	DD ATE.				
l Of	PDATE: SDP a=curr:gos local s	on drags			
	SDP a=curr:qos local s a=curr:qos remot				
		atory local sendrecv			
	•	atory remote sendrecv			
	a=ues.qus manua	alory remote sendrecy			
20	00 OK UPDATE				
	SDP a=curr:qos local s	sendrecv			
	a=curr:qos remot	e sendrecv			
		atory local sendrecv			
	a=des:qos mandatory remote sendrecv				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	IVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ← 100 Trying				
	183 Session Progress ← 183 Session Progress				
	PRACK → PRACK				
	200 OK (PRACK) ← 200 OK (PRACK)				
	PDATE -	<b>→</b>	UPDATE		
20	200 OK (UPDATE) ← 200 OK (UPDATE)				
		Apply post test routine			

TP number	TP_101_003	Reference	[1], clause 7.2.4 [2], clause 7.2.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding of SIP-INVITE reque			
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/				
Test Purpose name	Preconditions support indicate				
Test Purpose	Ensure that the Preconditions		the support of Precondition is		
	indicated in the Supported hea				
			or is set to 'continuity check is not		
	required'.		•		
ISUP Parameter values	IAM: Nature of connection indi	cator = 'continuity check is	not required'		
SIP Parameter values	INVITE: Supported: precondition	on, 100rel			
	SDP a=curr:qos local				
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos none	remote sendrecv			
	183: Require: 100rel				
	SDP a=curr:qos local	none			
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos mandatory remote sendrecv				
	a=conf:qos remote sendrecv				
	UPDATE:				
	SDP a=curr:qos local				
	a=curr:qos remo				
	a=des:qos mandatory local sendrecv				
	a=des:qos mano	latory remote sendrecv			
	200 OK UPDATE				
	SDP a=curr:qos local	sendrecv			
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos mano	latory remote sendrecv			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -				
	100 Trying ← 183 Session Progress ←				
	PRACK -				
	200 OK (PRACK)				
	UPDATE → INVITE (IAM)				
	200 OK (UPDATE) ←				
		Apply post test routin	e		

TP number	TP_101_004	Reference	[1], clause 7.2.4 [2], clause 7.2.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /				
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1		_		
Test Purpose name	Preconditions support indicate				
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Require header. The INVITE with encapsulated IAM is immediately sent. The Nature of connection indicator is set to 'continuity check performed on a previous circuit' or 'continuity check required'.				
ISUP Parameter values	IAM: Nature of connection inc		ired'		
SIP Parameter values		ıl none			
	183: Require: 100rel SDP				
	UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv				
	200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv				
Comments					
)Message flows	100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE	€ € • •	SIP-I  INVITE (IAM)  100 Trying  183 Session Progress  PRACK 200 OK (PRACK)  UPDATE  200 OK (UPDATE)		

TP number	TP_101_005	Reference	[1], clause 7.2.4 [2], clause 7.2.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SIP-INVITE reque			
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/2				
Test Purpose name	Preconditions support indicated				
Test Purpose	Ensure that the Preconditions		he support of Precondition is		
	indicated in the Require heade				
	UPDATE was received. The Na	ature of connection indicate	or is set to 'continuity check is not		
	required'.				
ISUP Parameter values	IAM: Nature of connection indi		not required'		
SIP Parameter values	<b>INVITE:</b> Require: precondition,				
	SDP a=curr:qos local				
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos none	remote sendrecv			
	183: Require: 100rel				
	SDP a=curr:qos local	none			
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos mandatory remote sendrecv				
	a=conf:gos remote sendrecv				
	UPDATE:				
	SDP a=curr:qos local				
	a=curr:qos remo				
		atory local sendrecv			
	a=des:qos mano	latory remote sendrecv			
	200 OK UPDATE				
	SDP a=curr:qos local	sendrecv			
	a=curr:qos remo				
		latory local sendrecv			
		latory remote sendrecv			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->				
	100 Trying ←				
183 Session Progress					
	PRACK →				
	200 OK (PRACK) ←				
	UPDATE →		→ INVITE (IAM)		
	200 OK (UPDATE) ←				
		Apply post test routine	9		

TP number	TP_101_006	Reference	[1], clause 7.2.4 [2], clause 73.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SID INVITE request /	[[2], Clause 73.3.1.1		
Selection criteria	PICS 6.1.1/2 AND PICS 67.2.1		upport		
Test Purpose name	Preconditions support indicated in the Supported header COT procedure supported				
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The internal ISUP Continuity check procedure is not supported. The INVITE with encapsulated IAM is immediately sent. The Nature of connection indicator is set to 'COT to be expected'. After the UPDATE was received, an UPDATE is sent				
ISUP Parameter values	IAM: Nature of connection indi				
SIP Parameter values	•	none			
	183: Require: 100rel SDP				
	UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv				
	200 OK LIDDATE				
	200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv				
Comments					
Message flows	SIP NNI INVITE  100 Trying  183 Session Progress  PRACK  200 OK (PRACK)  UPDATE  200 OK (UPDATE)	+ + + + +	SIP-I INVITE (IAM) 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)		
	1	Apply post test routine			

TSS reference  SIP NNI - SIP-I/Basic call/Sending_of_SIP-INVITE request /  PICS 6.1.1/2 AND PICS6.2.1/1 AND NOT PICS6.2.1/2; BICC support  Preconditions support indicated in the Supported header  Test Purpose  Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The INVITE with encapsulated IAM) is sent after the UPDATE was received. The Nature of connection indicator is set to 'no COT to be expected'.  ISUP Parameter values  IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none  a=curr:qos remote none  a=des:qos mandatory local sendrecv  a=des:qos none remote sendrecv	ection criteria t Purpose name t Purpose P Parameter values	PICS 6.1.1/2 AND P Preconditions suppo Ensure that the Precindicated in the Supp UPDATE was receiv expected'.  IAM: Nature of conn	PICS6.2.1/1 AND NOT PICS6.2.1/2 ort indicated in the Supported head conditions procedure is successful ported header. The INVITE with erved. The Nature of connection indicated in the Support in the Support indicated in the Support in t	2; BICC support  der  if the support of Precondition is ncapsulated IAM) is sent after the cator is set to 'no COT to be		
Selection criteria	ection criteria t Purpose name t Purpose P Parameter values	PICS 6.1.1/2 AND P Preconditions suppo Ensure that the Precindicated in the Supp UPDATE was receiv expected'.  IAM: Nature of conn	PICS6.2.1/1 AND NOT PICS6.2.1/2 ort indicated in the Supported head conditions procedure is successful ported header. The INVITE with erved. The Nature of connection indicated in the Support in the Support indicated in the Support in t	2; BICC support  der  if the support of Precondition is ncapsulated IAM) is sent after the cator is set to 'no COT to be		
Test Purpose name Preconditions support indicated in the Supported header  Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The INVITE with encapsulated IAM) is sent after the UPDATE was received. The Nature of connection indicator is set to 'no COT to be expected'.  ISUP Parameter values IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv	t Purpose name t Purpose P Parameter values	Preconditions suppo Ensure that the Precindicated in the Supp UPDATE was receiv expected'.  IAM: Nature of conn	ort indicated in the Supported head conditions procedure is successful ported header. The INVITE with er red. The Nature of connection indice	der  If the support of Precondition is ncapsulated IAM) is sent after the cator is set to 'no COT to be		
Test Purpose  Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The INVITE with encapsulated IAM) is sent after the UPDATE was received. The Nature of connection indicator is set to 'no COT to be expected'.  ISUP Parameter values  IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv	t Purpose P Parameter values	Ensure that the Precindicated in the SuppuPDATE was receivexpected'.  IAM: Nature of conn	conditions procedure is successful ported header. The INVITE with er red. The Nature of connection indicates and the connection indicates are reconstructed in the connection indicates and the connection indicates are reconstructed in the connection indicates are reconstructed in the connection indicates are reconstructed in the connection in the connec	if the support of Precondition is ncapsulated IAM) is sent after the cator is set to 'no COT to be		
UPDATE was received. The Nature of connection indicator is set to 'no COT to be expected'.  ISUP Parameter values  IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv		UPDATE was receiv expected'.  IAM: Nature of conn	ved. The Nature of connection indicate	cator is set to 'no COT to be		
expected'.  ISUP Parameter values  IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv		expected'.  IAM: Nature of conn				
ISUP Parameter values  IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Supported: precondition, 100rel  SDP		IAM: Nature of conn	ection indicator = 'no COT to be e	wpostod'		
SIP Parameter values  INVITE: Supported: precondition, 100rel  SDP			ection indicator = 'no COT to be e			
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv	Parameter values	INVITE: Supported:	100 1	expected		
a=curr:qos remote none a=des:qos mandatory local sendrecv						
a=des:qos mandatory local sendrecv						
a=des:qos none remote sendrecv						
		a=des	e:qos none remote senarecv			
183: Require: 100rel		183: Require: 100rel	1			
SDP a=curr:gos local none						
a=curr:qos remote none			•			
a=des:qos mandatory local sendrecv						
a=des:qos mandatory remote sendrecv						
a=conf:gos remote sendrecv						
·						
UPDATE:						
SDP a=curr:qos local sendrecv						
		a=curr:qos remote none				
a=des:qos mandatory local sendrecv						
a=des:qos mandatory remote sendrecv		a=des:qos mandatory remote sendrecv				
200 OK LIPDATE		200 OK UPDATE				
SDP a=curr:qos local sendrecv						
a=curr:qos remote sendrecv						
a=des:qos mandatory local sendrecv						
a=des:qos mandatory remote sendrecv						
Comments	nments		· · · · · · · · · · · · · · · · · · ·			
Message flows SIP NNI MGCF SIP-I	sage flows	SIP NNI	MGCF	SIP-I		
INVITE →			<b>→</b>			
100 Trying ←		100 Trying	<b>←</b>			
183 Session Progress ←						
PRACK →		PRACK				
200 OK (PRACK) ←		200 OK (PRACK)	<b>←</b>			
UPDATE → INVITE (IAM)		UPDATE	<b>→</b>	→ INVITE (IAM)		
200 OK (UPDATE) ←		200 OK (UPDATE)	<b>←</b>	• •		
Apply post test routine		·				

TP number	TP_101_008	Reference	[1], clause 7.2.4		
TSS reference	CID NINI CID I/Docio d	I call/Sending_of_ SIP-INVITE	[2], clause 7.3.3.1.1		
Selection criteria					
	PICS 6.1.1/2 AND PICS6.2.1/1 AND PICS6.2.1/2; BICC support				
Test Purpose name	Preconditions support indicated in the Require header  Ensure that the Preconditions procedure is successful if the support of Precondition is				
Test Purpose					
	indicated in the Require header. The INVITE with encapsulated IAM is immediately sent. The Nature of connection indicator is set to 'COT to be expected'. After the UPDATE was				
	received, a UPDATE is		be expected. After the OPDATE was		
ISUP Parameter values		tion indicator = 'COT to be e	vnected'		
SIP Parameter values	INVITE: Require: preco		Apecieu		
on randicter values		os local none			
		os remote none			
		os mandatory local sendrecy	,		
		os none remote sendrecv			
	183: Require: 100rel				
	SDP a=curr:q	os local none			
	a=curr:qos remote none				
		os mandatory local sendrecv			
	1	os mandatory remote sendre	ecv		
	a=conf:c	os remote sendrecv			
	UPDATE: SDP a=curr:q	as lead sondraw			
	SDP a=curr:qos local sendrecv a=curr:qos remote none				
	a=curr.qos remote none a=des:gos mandatory local sendrecv				
	a=des:qos mandatory remote sendrecv				
	a=ue3.qi	os mandatory remote sendre	56V		
	200 OK UPDATE				
	SDP a=curr:qos local sendrecv				
		os remote sendrecv			
		os mandatory local sendrecy	•		
	a=des:qos mandatory remote sendrecv				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
	100 Trying	<b>←</b>	<ul><li>100 Trying</li></ul>		
	183 Session Progress	<b>←</b>	<ul> <li>183 Session Progress</li> </ul>		
	PRACK	<b>→</b>	→ PRACK		
	200 OK (PRACK)	<b>←</b>	← 200 OK (PRACK)		
	UPDATE	<b>→</b>	→ UPDATE		
	200 OK (UPDATE)	<b>←</b>	← 200 OK (UPDATE)		
		Apply post test i	outine		

TP number	TP_101_009	Reference	[1], clause 7.2.4 [2], clause 7.3.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SIP-INVITE reque			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS6.2.1/2 ; BICC support				
Test Purpose name	Preconditions support indicated in the Require header				
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is				
-	indicated in the Require header. The INVITE with encapsulated IAM is sent after the				
	UPDATE was received. The Nature of connection indicator is set to 'no COT to be				
	expected'.				
ISUP Parameter values	IAM: Nature of connection indi		cted'		
SIP Parameter values	<b>INVITE:</b> Require: precondition,				
	SDP a=curr:qos local				
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos none	remote sendrecv			
	183: Require: 100rel				
	SDP a=curr:qos local	none			
	a=curr:qos remo				
		latory local sendrecv			
		latory remote sendrecv			
	a=conf:gos remo				
	UPDATE:				
	SDP a=curr:qos local	sendrecv			
	a=curr:qos remote none				
	a=des:qos mandatory local sendrecv				
	a=des:qos mandatory remote sendrecv				
	200 OK UPDATE				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remo				
		latory local sendrecv			
	a=des:qos mandatory remote sendrecv				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -				
	100 Trying ←				
	183 Session Progress				
	PRACK →				
	200 OK (PRACK) ←				
	UPDATE →		→ INVITE (IAM)		
	200 OK (UPDATE) ←				
	Apply post test routine				

TP number	TP_101_010	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/Se	ending_of_ SIP-INVITE r	equest /
Selection criteria			
Test Purpose name	Unsupported media type is r	ejected 488 is sent	
Test Purpose			488 Not Acceptable Here final
	response is sent to the calling	g user.	
ISUP Parameter values			
SIP Parameter values	INVITE:		
	SDP: m= video 4713 RT	P/AVP 31	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	<b>→</b>	
	488 Not Acceptable Here	<b>←</b>	
	ACK	<b>→</b>	

TP number	TP_101_011	Reference		[1], clause 7.2.1 [2], clause 7.2.3.1.1			
TSS reference	SIP NNI - SIP-I/Basic call/	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /					
Selection criteria	en ma en pasis sam	conding_or_ on invite:	oquoot7				
Test Purpose name	Unsupported media type is	s rejected session success	ful				
Test Purpose				sends in the SDP answer the			
	port number '0' for the con	cerned media type.					
ISUP Parameter values		• •					
SIP Parameter values	INVITE: SDP: m=audio 4711 I m= video 4713  180 Ringing or 183 Sessio	RTP/AVP 31 on Progress					
	SDP: m=audio <appri m=video 0 RTP</appri 	opriate Port #> RTP/AVP 8	3				
Comments	III=VIGEO O ICIT	/AVI 31					
Message flows	SIP NNI INVITE 100 Trying	MGCF → ←	<b>→</b>	SIP-I INVITE (IAM)			
	CASE A 180 Ringing CASE B	<b>←</b>	<b>←</b>	180 Ringing (ACM)			
	183 Session Progress	← Apply post test ro	<b>←</b> utine	183 Session Progress (ACM)			

TP number	TP 101 012	Reference		[1], clause 7.2.1
	11 _101_012	1101010100		[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call	Sending of SIP-INVITE	request	
Selection criteria	2 74141 311 1/ Basic Gail	Conding_or_ On INVITE	- 15445517	
Test Purpose name	Unsupported codec is des	selected		
Test Purpose	• • • • • • • • • • • • • • • • • • • •		dec list in	the SDP answer if the codec is
	an unsupported codec.		400 1101 111	and obtained in the codes is
ISUP Parameter values				
SIP Parameter values	INVITE:			
	SDP: m=audio 4711	RTP/AVP <unsupported< th=""><th>codec&gt; 8</th><th></th></unsupported<>	codec> 8	
	180 Ringing or 183 Session	on Progress		
	SDP: m=audio <appr< th=""><th>opriate Port #&gt; RTP/AVF</th><th>8</th><th></th></appr<>	opriate Port #> RTP/AVF	8	
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)
	100 Trying	<b>←</b>		
	CASE A			
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM)
	CASE B			
	183 Session Progress	<b>←</b>	+	183 Session Progress
				(ACM)
		Apply post test	routine	

TP number	TP_101_013	Reference		[1], clause 7.2.1
				[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/	Sending_of_ SIP-INVIT	E request /	
Selection criteria				
Test Purpose name	INVITE request without SI	OP offer received		
Test Purpose	Ensure that on receipt of a	an INVITE request without	out a SDP of	ffer, the SUT sends a SDP
	offer in the first reliable no	n-failure message.		
ISUP Parameter values				
SIP Parameter values	INVITE: Supported: 100re	I		
	180 Ringing or 183 Session			
	SDP: m=audio 4711	RTP/AVP 8		
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)
	100 Trying	<del>(</del>		
	CASE A			
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM)
	PRACK	<b>→</b>	<b>→</b>	PRACK
	200 OK PRACK	<b>←</b>	<b>←</b>	200 OK PRACK
	CASE B			
	183 Session Progress	<b>←</b>	<b>←</b>	183 Session Progress
				(ACM)
	PRACK	<b>→</b>	<b>→</b>	PRACK
	200 OK PRACK	<b>←</b>	<b>←</b>	200 OK PRACK
		Apply post tes	t routine	

I—— ·			In		
TP number	TP_101_014	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request /			
Selection criteria					
Test Purpose name	To header tag is sent in the firs	st provisional response			
Test Purpose	Ensure that a To header tag is	contained in the first provisiona	al response		
ISUP Parameter values					
SIP Parameter values	INVITE: To: <uri></uri>				
	180 Ringing or 183 Session Pr	ogress: To: <uri>; <tag></tag></uri>			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←				
	CASE A				
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)		
	CASE B				
	183 Session Progress ←	<b>←</b>	183 Session Progress		
			(ACM)		
	Apply post test routine				

TP number	TP_101_015	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.2		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_SIP-INVITE request /	[[2], 5.4455 7.2.5.1.2		
Selection criteria		·			
Test Purpose name	Coding of called party number				
Test Purpose	<ul> <li>Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. In the encapsulated IAM</li> <li>In case of the 'CC' of the received INVITE request URI is equal to the country code in which the next hop terminates: remove 'CC' from the user info and send the remaining part as digits in the called party number. The nature of address indicator is set to 'National (Significant) number'.</li> <li>In case of the 'CC' of the received INVITE request URI is not equal to the country code in which the next hop terminates: send the unchanged part of the request URI without '+' as digits in the called party number. The nature of address indicator is set to 'International number'.</li> <li>The internal Network Number Indicator = 'routing to internal network number not allowed' Numbering Plan Indicator = 'ISDN (Telephony) numbering plan (Recommendation E.164 [i.1])'</li> </ul>				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -		INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

TP number	TP_101_016	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.1		
TSS reference	SIP NNI - SIP-I/Basic call/Sei	nding_of_ SIP-INVITE request	/		
Selection criteria	PICS 7.2.1/21				
Test Purpose name	SendingCompleteIndication is	mapped into a hex digit 'F' in	the called party number		
Test Purpose	Ensure that on receipt of a PSTN XML SendingCompleteIndication element a hex digit 'F'				
	is sent al last digit in the calle	d party number			
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b>	INVITE (IAM)		
	100 Trying	<b>-</b>			
	Apply post test routine				

TP number	TP_101_017	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.2			
TSS reference	SIP NNI - SIP-I/Basic call/	Sending_of_ SIP-INVITE	request /			
Selection criteria	PICS 7.1.1/1					
Test Purpose name	Nature of connection indic	ator				
Test Purpose	received. The nature of connection of Satellite indicator = 'no see Continuity check indicator or 'continuity check pee Echo control device indicator of the TMR audio 3,1 kHz of the control of the cont	The nature of connection indicator in the encapsulated IAM is set  Satellite indicator = 'no satellite circuit in the connection'  Continuity check indicator = 'continuity check not required' or 'continuity check required' or 'continuity check performed on a previous circuit'  Echo control device indicator  TMR audio 3,1 kHz or speech = outgoing echo control device included  TMR 64 kBit/s or HLC 'Facsimile Group 2/3' = 'outgoing echo control device not				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<b>→</b>	→ INVITE (IAM)			
	100 Trying	<b>←</b>				
		Apply post test	routine			

TP number	TP_101_018	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.2			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request /				
Selection criteria	PICS 7.1.1/2					
Test Purpose name	Nature of connection indicator					
Test Purpose	Ensure that an INVITE with en					
	received. In the encapsulated I		ndicator is set			
	Satellite indicator = 'no satelli					
	Continuity check indicator =					
	Echo control device indicato	r = outgoing echo control devi	ce included			
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	<b>→</b>	INVITE (IAM)			
	100 Trying ←					
	Apply post test routine					

TP number	TP_101_019	Reference	[1], clause 7.2.1				
			[2], clause 7.2.3.1.2.3				
TSS reference	SIP NNI - SIP-I/Basic call/Send	ing_of_ SIP-INVITE request /					
Selection criteria	NOT PICS 7.2.1/5						
Test Purpose name	Forward Call indicator						
Test Purpose	Ensure that an INITE (IAM) is sent after an INVITE request was received. If no PSTN XML attachment is present and the receipt of TMR audio ,the Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available)  • Interworking indicator = ('1') interworking encountered  • End-to-end information indicator = ('0') no end-to-end information available  • ISDN user part/BICC indicator = ('0') ISDN user part/BICC not used all the way  • ISDN access indicator = ('0') originating access non-ISDN  • SCCP method indicator = ('00') no indication						
ISUP Parameter values							
SIP Parameter values		*					
Comments							
Message flows	SIP NNI MGCF SIP-I						
	INVITE →	INVITE → INVITE (IAM)					
	100 Trying ←						
		Apply post test routine					

TP number	TP_101_020	Reference	[1], clause 7.2.1				
	[2], clause 7.2.3.1.2.3						
TSS reference	SIP NNI - SIP-I/Basic call/Send						
Selection criteria	NOT PICS 7.2.1/5 AND NOT P	ICS 7.2.1/6					
Test Purpose name	Forward Call indicator						
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the receipt of TMR 64 kBit/s has no impact of the coding of the Forward call indicator. The Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available)  • Interworking indicator = ('1') interworking encountered  • End-to-end information indicator = ('0') no end-to-end information available  • ISDN user part/BICC indicator = ('0') ISDN user part/BICC not used all the way  • ISDN access indicator = ('0') originating access non-ISDN						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	SIP NNI MGCF SIP-I						
	INVITE → INVITE (IAM)						
	100 Trying						
		Apply post test routine					

TD	TD 404 004	D (	[4]   704			
TP number	TP_101_021	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.3			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ing_of_ SIP-INVITE request /				
Selection criteria	NOT PICS 7.2.1/5 AND PICS 7	7.2.1/6				
Test Purpose name	Forward Call indicator					
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the receipt of TMR 64 kBit/s has impact of the coding of the Forward call indicator, the Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available)  • Interworking indicator = ('0') no interworking encountered  • End-to-end information indicator = ('0') no end-to-end information available  • ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way  • ISDN access indicator = ('1') originating access ISDN					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	<b>→</b>	INVITE (IAM)			
	100 Trying ←					
		Apply post test routine				
	LL A L. T.					

TP number	TP_101_022	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.3		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Forward Call indicator				
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. If the PSTN XML attachment is present the ProgressIndicator value ProgressDescription = 6, the Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available)  • Interworking indicator = ('0') no interworking encountered  • End-to-end information indicator = ('0') no end-to-end information available  • ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way  • ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way				
		1') originating access ISDN			
ISUP Parameter values	SCCP method indicator =  IAM Forward call indicator	(1001) no indication			
SIP Parameter values	IAM: Forward call indicator INVITE:				
oir raidilleter values	PSTM XML MIME body xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet3 CodingStandard 00 Location>yyyy< ProgressOctet4 ProgressDescription	<			
Comments					
Message flows	SIP NNI INVITE → 100 Trying ←	MGCF  → Apply post test routine	SIP-I INVITE (IAM)		
	Apply post test routile				

TP number	TP_101_023	Reference	[1], clause 7.2.1				
			[2], clause 7.2.3.1.2.4				
TSS reference	SIP NNI - SIP-I/Basic	call/Sending_of_ SIP-INVITE	request /				
Selection criteria		-	•				
Test Purpose name	Mapping of calling par	rty category					
Test Purpose	and the "language" in	Ensure that a cpc parameter SIP_CPC received in the P-Asserted-Identity URI parameter and the "language" in the Accept-Language SIP_LANG header is mapped into the calling party parameter category ISUP_CPC in the sent IAM. The mapping is described in table 6.1.1.1-1					
ISUP Parameter values	IAM: Calling Party C	Category = ISUP_CPC					
SIP Parameter values		INVITE: P-Asserted-Identity;cpc= PARAM, / Accept-Language = SIP_LANG INVITE (IAM): P-Asserted-Identity;					
Comments							
Message flows	SIP NNI	MGCF	SIP-I				
	INVITE	<b>→</b>	→ INVITE (IAM)				
	100 Trying	<b>←</b>					
		Apply post test routine					

Table 6.1.1.1-1: Coding of calling party category

Values for test purposes TP101032				
SIP_CPC	;	ISUP_CPC		
cpc received in a Accept-Language P-Asserted-Identity PARAM SIP_LANG		Sent Calling party's category		
operator	fr	operator, language French		
operator	en	operator, language English		
operator	de	operator, language German		
operator	ru	operator, language Russian		
operator	es	operator, language Spanish		
ordinary		ordinary calling subscriber		
test		test call		
payphone		payphone		
cellular		mobile terminal located in the home PLMN		
cellular-roaming		mobile terminal located in a visited PLMN		
IEPS		IEPS call marking for preferential call set up		

TP number	TP_101_024	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request /			
Selection criteria		<u> </u>			
Test Purpose name	Coding of TMR				
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. The Transmission Medium Requirement parameter in the INVITE with encapsulated IAM is set according the mapping described in table 6.1.1.1-2				
ISUP Parameter values	IAM: TMR				
SIP Parameter values	INVITE: SDP m line a attributes				
Comments					
Message flows	SIP NNI INVITE → 100 Trying ←		SIP-I INVITE (IAM)		

Table 6.1.1.1-2: Coding of TMR

TMR_VA		m= line		a= line	TMR parameter
	<media></media>	<transport></transport>	<fmt-list></fmt-list>	rtpmap: <dynamic-pt> <encoding name=""> <clock rate="">[<encoding parameters="">]</encoding></clock></encoding></dynamic-pt>	TMR codes
VA_01	audio	RTP/AVP	0	N/A	"3,1 kHz audio"
VA_02	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	"3,1 kHz audio"
VA_03	audio	RTP/AVP	8	N/A	"3,1 kHz audio"
VA_04	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	"3,1 kHz audio"
VA_05	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>	"64 kbit/s unrestricted"
VA_06	image	Udptl	t38	Based on Recommendation ITU-T T.38 [4]	"3,1 kHz audio"
VA_07	image	tcptl	t38	Based on Recommendation ITU-T T.38 [4]	"3,1 kHz audio"

TP number	TP 101 025	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request /			
Selection criteria					
Test Purpose name	Coding of USI				
Test Purpose	Ensure that an INVITE with en				
	received. The User service Info	ormation parameter in the IAM	is set according the mapping		
	described in table 6.1.1.1-3				
ISUP Parameter values	IAM:				
	USI				
SIP Parameter values	INVITE:				
	SDP				
	m line				
	a attributes				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<b>→</b>	INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

## Table 6.1.1.1-3: Coding of USI

USI_VA		m= line		a= line	USI p	arameter
	<media></media>	<transport></transport>	<fmt-list></fmt-list>		Information	User Information
					Transport	Layer 1 Protocol
					Capability	Indicator
VA_01	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt></dynamic-pt>	"Unrestricted	
				CLEARMODE/8000	digital	
					information" or	
					"Unrestricted	
					digital inf.	
					w/tones/ann"	
VA_02	image	Udptl	t38	Based on Recommendation	"3,1 kHz	
		·		ITU-T T.38 [4]	audio"	
VA_03	image	tcptl	t38	Based on Recommendation	"3,1 kHz	
Ī				ITU-T T.38 [4]	audio"	

TP number	TP_101_026	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2.5
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request /	
Selection criteria			
Test Purpose name	Coding of HLC		
Test Purpose	Ensure that an INVITE with encreceived. The High Layer Comdescribed in table 6.1.1.1-4		
ISUP Parameter values	IAM: HLC		
SIP Parameter values	INVITE: SDP m line a attributes		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE → 100 Trying ←	<b>→</b>	IAM
		Apply post test routine	

Table 6.1.1.1-4: Coding of HLC

HLC_VA	m= line			a= line	HLC parameter (optional)	
	<media></media>	<transport></transport>	<fmt-list></fmt-list>	rtpmap: <dynamic-pt> <encoding name=""> <clock rate="">[<encoding parameters="">]</encoding></clock></encoding></dynamic-pt>	High Layer Characteristics Identification	
VA_01	image	Udptl	t38	Based on Recommendation ITU-T T.38 [4]	"Facsímile Group 2/3"	
VA_02	image	tcptl	t38	Based on Recommendation	"Facsímile Group 2/3"	

TP number	TP_101_027	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML HighLayerCompatibility				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a				
	HighLayerCompatibility elemer				
	IE present in an ISUP Access				
	derived from the PSTN XMLHi	ghLayerCharacteristics elemer	nt		
ISUP Parameter values	IAM:				
	ATP High Layer Compatibility				
	High Layer Characterist	ics>HLC_value			
SIP Parameter values	INVITE:				
	PSTN XML MIME body				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00				
	Interpretation>100<				
	PresentationMethod	>01<			
	HLOctet4	intina III O malma			
0	HighLayerCharacter	istics>HLC_value<			
Comments	OID NAME AND STATE OF THE STATE				
Message flows	SIP NNI MGCF SIP-I				
	INVITE → INVITE (IAM)				
	100 Trying ←				
	Apply post test routine				

Table 6.1.1.1-5: Mapping of PSTN XML HighLayerCharacteristic to ISUP ATP High layer compatibility

HLC_value	XML HighLayerCharacteristic	DSS1 High layer characteristics identification
HLC_VA_1	'000001'	Telephony
HLC_VA_2	'0000100'	Facsimile Group 2/3
HLC_VA_3	'0100001'	Facsimile Group 4 Class I
HLC_VA_4	'0100100'	Facsimile service Group 4, Classes II and III
HLC_VA_5	'0110010'	Syntax based Videotex
HLC_VA_6	'0110011'	International Videotex interworking via gateways or
		interworking units
HLC_VA_7	'0110101'	Telex service
HLC_VA_8	'1000010'	FTAM application
HLC_VA_9	'1100000'	Videotelephony

TP number	TP_101_028	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.5	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.1/5			
Test Purpose name	Mapping of PSTN XML LowLayerCompatibility			
Test Purpose	Ensure that on receipt of a PST			
	LowLayerCompatibility element			
	IE present in an ISUP Access 1			
	value is derived from the PSTN	I XMLInformationTransferCapa	ability element	
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	ability= <b>ITC_VA</b>		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00			
	InformationTransfer	Capability> <b>ITC_VA</b> <		
	LLOctet4>			
	TransferMode>00<			
	InformationTransferF	Rate>10000<		
Comments				
Message flows	SIP NNI MGCF SIP-I			
	INVITE → INVITE (IAM)			
	100 Trying ←			
		Apply post test routine		

Table 6.1.1.1-6: Mapping of PSTN XML LowLayerCompatibility to ISUP ATP Low Layer Compatibility

ITC_value	XML LLC InformationTransferCapability	LLC Information transfer capability
ITC_VA_1	'00000'	Speech
ITC_VA_2	'10000'	3,1 kHz audio
ITC_VA_3	'01001'	Unrestricted digital info
ITC_VA_3	'10001'	7 kHz audio

TP number	TP_101_029	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Bearer	Capability into TMR and USI			
Test Purpose	Ensure that on receipt of a PST				
	BearerCapability element, this information is mapped into a User Service Information				
	Parameter the Information Tran	sfer Capability value is derive	d from the PSTN		
	XMLInformationTransferCapab	ility element			
ISUP Parameter values	IAM:				
	USI				
	Information Transfer Ca	pability= <b>ITC_value</b>			
SIP Parameter values	xml version="1.0" encoding=</th <th>"utf-8"?&gt;</th> <th></th>	"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
	BCoctet4				
	TransferMode>00<				
	InformationTransferF	Rate>10000<			
	BCoctet5				
	Layer1Identification>	·01<			
	UserInfoLayer1Protocol>00011<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE → INVITE (IAM)				
	100 Trying ←				
	Apply post test routine				

Table 6.1.1.1-7: Mapping of PSTN XML BearerCapability to ISUP User Service Information

ITC_value	XML InformationTransferCapability	USI Information transfer capability
ITC_VA_1	'00000'	Speech
ITC_VA_2	'10000'	3,1 kHz audio
ITC VA 3	'01000'	unrestricted digital information

TP number	TP_101_030	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5		
TSS reference		SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.1/5AND PICS 7.2.1/7				
Test Purpose name		Mapping of PSTN XML HighLayerCompatibility into User Teleservice Information			
	parameter				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a				
	HighLayerCompatibility element				
	Information parameter the High		is derived from the PSTN		
	XML HighLayerCharacteristics	element			
ISUP Parameter values	IAM:				
	UTI				
	High Layer Characteris	tics>HLC_value			
SIP Parameter values	INVITE:				
	PSTN XML MIME body				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacte	ristics>HLC_value<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b>	INVITE (IAM)		
	100 Trying ←	•			
	Apply post test routine				

Table 6.1.1.1-8: Mapping of PSTN XML HighLayerCharacteristic to ISUP User Teleservice Information

HLC_value	XML HighLayerCharacteristic	DSS1 High layer characteristics identification
HLC_VA_1	'000001'	Telephony
HLC_VA_2	'0000100'	Facsimile Group 2/3
HLC_VA_3	'0100001'	Facsimile Group 4 Class I
HLC_VA_4	'0100100'	Facsimile service Group 4, Classes II and III
HLC_VA_5	'0110010'	Syntax based Videotex
HLC_VA_6		International Videotex interworking via gateways or interworking units
HLC_VA_7	'0110101'	Telex service
HLC_VA_8	'1000010'	FTAM application
HLC_VA_9	'1100000'	Videotelephony

TP number	TP_101_031	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5a		
TSS reference	SIP NNI - SIP-I/Basic call/S	Sending_of_ SIP-INVIT	E request /		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Fall Back connection type i				
Test Purpose	Ensure that on receipt of tw body	o BearerCapability ele	ments in a INVITE PSTN XML MIME		
	The first stated codec	in the SDP m line is the	e equivalent to the second		
	BearerCapability element, the BearerCapability element is mapped into the User				
	Service prime (USI prii second PSTN XML Inf		ent IAM, the TMR is set according the		
			the equivalent to the first		
			ty element is mapped into the User		
			ent IAM, the TMR prime is set according		
	the first PSTN XML Inf				
ISUP Parameter values	IAM:	omanom ranoro capa	omy value		
	TMR = second Information	TransferCapability			
	TMR prime = first Information				
	USI = first BearerCapability				
	USI prime = second Bearer				
SIP Parameter values	INVITE: PSTN XML MIME				
	xml version="1.0" encoding="utf-8"?				
	PSTN	J			
	BearerCapability				
	BCoctet3				
	CodingStandard	>00<			
		sferCapability>00000<			
	or				
	InformationTrans	sferCapability>10000<			
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
		sferCapability>10001<			
Comments	SDP: m line contains as the codec	e first codec CLEARMO	DDE and as the second codec a G.711		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
	100 Trying	<b>←</b>			
		Apply post test	routine		

TP number	TP_101_032	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.5a	
TSS reference		all/Sending_of_ SIP-INVITE	request /	
Selection criteria	PICS 7.2.1/5			
Test Purpose name	Fall Back connection type is not sent  Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME			
Test Purpose	·	of two BearerCapability eler	nents in a INVITE PSTN XML MIME	
	body	de a im the ODD as line is the	and along to the second	
		dec in the SDP m line is the		
	y element is mapped into the User nt IAM, the TMR is set according the			
		<ul> <li>InformationTransferCapab codec in the SDP m line is</li> </ul>		
			y element is mapped into the User	
	Service Information		nt IAM, the TMR prime is set according	
			es not contain the Fallback connection	
			e Fallback connection type:	
	<ul> <li>TMR = Speech or a</li> </ul>			
	<ul> <li>USI = Speech or a</li> </ul>	•		
		meter is not present		
	A USI prime is not	present		
ISUP Parameter values	IAM:	e:		
	TMR = second Informa			
	USI = first BearerCapal	mationTransferCapability		
	USI prime = second Be			
SIP Parameter values	INVITE: PSTN XML MI			
on randineter values	xml version="1.0" en</th <th></th> <th></th>			
	PSTN	odding— dii o .>		
	BearerCapability			
	BCoctet3			
	CodingStand	dard>00<		
	InformationT	ransferCapability>00000<		
	or			
	InformationTransferCapability>10000<			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability>10001<			
	SDP: m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper>			
Comments	SDP: m line contains as the first codec CLEARMODE and as the second codec a G.711 codec			
	Configuration: the succ		pport the Fall back connection type	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>4</b>		
		Apply post test	routine	

TP number	TP_101_033	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.9		
TSS reference	SIP NNI - SIP-I/Basic call/Send	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.1/8				
Test Purpose name	Max-Forwards received, HOP	is sent			
Test Purpose	Ensure that on receipt of the Max-Forwards header, the value is mapped into the Hop counter. The value of the HOP is created from the Max-Forwards header value by applying a given factor				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

TP number	TP_101_034	Reference	[1], clause 7.2.1	
	1		[2], clause 7.2.3.1.2.10	
TSS reference	SIP NNI - SIP-I/Basic call/Send	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /		
Selection criteria	PICS 7.2.1/5	<del></del>		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator		
Test Purpose	Ensure that on receipt of a PST			
	ProgressIndicator element, this			
	in an ISUP Access Transport P		tion value is derived from the	
	PSTN XML ProgressDescription	n element		
ISUP Parameter values	IAM:			
	ATP Progress Indicator			
		Progress Description=PI_value		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00<			
	Location>0000<			
	ProgressOctet4			
	ProgressDescription	>PI_value<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

Table 6.1.1.1-9: Mapping of PSTN XML ProgressIndicator to ISUP ATP Progress Indicator

PI_value	XML ProgressIndicator ProgressDescription	ATP Progress Indicator value
PI_VA_1	'000001'	Call is not end-to-end ISDN; further call progress information may be available in-band
PI_VA_2	'0000010'	Destination address is non-ISDN
PI_VA_3	'0000011'	Origination address is non-ISDN
PI_VA_4	'0000100'	Call has returned to the ISDN
PI_VA_5	'0000101'	Interworking has occurred and has resulted in a
		telecommunication service change
PI_VA_6	'0001000'	In-band information or an appropriate pattern is now available

TP number	TP_101_035	Reference	[1], clause 7.2.1		
T00 (	OLD VIVI. OLD 1/D : II/O	L COR IN OTE	[2], clause 7.2.3.1.2A.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /				
Selection criteria	PICS 7.2.2/1				
Test Purpose name	Number Portability Separate D		Method is used. A Called		
	Directory Number is present in				
Test Purpose	Ensure that on receipt of an in				
	•	with encapsulated IAM is sen	t. The <b>Called Party Number</b> is		
	set to:				
		ator: "Network routing numbe			
	number format" <b>or</b> "Natior network specific number f	nal (significant) number" <b>or</b> "N ormat"	letwork routing number in		
	<ul> <li>Internal Network Number</li> </ul>	er Indicator: routing to interna	al network number not allowed		
		or: ISDN (Telephony) number	ing plan (Recommendation		
	E.164 [i.1])				
	Address Signal: derived from the user info of the request URI the country code is				
	removed.				
	The Called Directory Number is set to:				
	Nature of address indicator "National (significant) number"				
	• Internal Network Number Indicator: routing to internal network number not allowed				
	Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164 [i.1])				
	Address Signal: derived from the rn parameter if the Number Portability Routing				
	Number contains an E164 number the country code is removed else the address digits				
	applied unchanged.				
ISUP Parameter values	IAM:				
	Called party number, Called Directory Number				
SIP Parameter values	INVITE:				
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>				
	INVITE (IAM):				
	Request URI: sip: <called number="">;</called>				
Comments	The URI parameters can be re				
Message flows	SIP NNI	MGCF	SIP-I		
_	INVITE -	<b>→</b>	INVITE (IAM)		
	100 Trying ←	-	, ,		
	Apply post test routine				

TP number	TP_101_036	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2A.1.2	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.2/2			
Test Purpose name	Number Portability Concatenate	ed Addressing Method is used	. The called party number is	
	present			
Test Purpose	Ensure that on receipt of an init			
	in the request line, an INVITE v	with encapsulated IAM is sent.	The Called Party Number is	
	set to:			
		tor: "Network routing number of	concatenated with called	
	directory number" or "Nation	onal (significant) number"		
	Internal Network Number Indicator: routing to internal network number not allowed			
	<ul> <li>Numbering plan Indicato</li> </ul>	r: ISDN (Telephony) numberin	g plan ( <i>Recommendation</i>	
	E.164 [i.1])			
	Address Signal: derived from the rn parameter if the Number Portability Routing			
	Number contains an E164 number the country code is removed else the address digits			
	applied unchanged. The ca	alled party number derived fror	m the user info is appended	
	except the country code.			
ISUP Parameter values	IAM:			
	Called party number			
SIP Parameter values	INVITE:			
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>			
	INVITE (IAM):			
	Request URI: sip: <called number="">;</called>			
Comments	The URI parameters can be received in arbitrary order			
Message flows	SIP NNI MGCF SIP-I			
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←		·	
	Apply post test routine			

TP number	TP_101_037	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2A.1.3	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.2/3			
Test Purpose name	Number Portability Separate N		ssing Method is used. A	
	Network Routing Number is pre			
Test Purpose	Ensure that on receipt of an initial INVITE request containing the <b>rn</b> and <b>npdi</b> parameters			
	in the request line, an INVITE	with encapsulated IAM is sent.	The Called Party Number is	
	set to:	4    N   - 4     / -     4   4	-111	
		tor: "National (significant) nun		
		r Indicator: routing to internal		
	Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164 [i.1])			
	Address Signal: derived from the user info of the request URI the country code is removed.			
	The Network Routing Number is set to:			
	Nature of address indicator: "Network routing number in national (significant)			
	number format" or "Network routing number in network specific number format"			
	Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164 [i.1])			
	Address Signal: derived from the rn parameter if the Number Portability Routing     Number contains an E164 number the country code is removed else the address digits applied unchanged.			
ISUP Parameter values	IAM:			
	Called party number, Network Routing Number			
SIP Parameter values	INVITE:			
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>			
	INVITE (IAM):			
_	Request URI: sip: <called number="">;</called>			
Comments	The URI parameters can be received in arbitrary order			
Message flows	SIP NNI MGCF SIP-I			
	INVITE →		INVITE (IAM)	
	100 Trying ←			
		Apply post test routine		

TP number	TP_101_038	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2A.2
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /		
Selection criteria	PICS 7.2.2/1 OR PICS 7.2.2/2	OR PICS 7.2.2/3 AND PICS 7	7.2.2/4
Test Purpose name	Sending of Number Portability	Forward Information	
Test Purpose	Ensure that on receipt of an initial INVITE request containing the <b>npdi</b> parameters in the request line, an INVITE with encapsulated IAM is sent. The INVITE with encapsulated IAM contains the Number Portability Forward Information parameter set according the following roles		
	If the Number Portability Database Dip Indicator is present, and there is no Number Portability Routing Number, set to "number portability query done for called number, non-ported called subscriber".		
ISUP Parameter values	IAM:		
	Number Portability Forward Information		
SIP Parameter values	INVITE:		
	Request URI: sip: <called number="">; npdi</called>		
	INVITE (IAM):		
0	Request URI: sip: <called number="">;</called>		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE → INVITE (IAM)		
	100 Trying ←		
	Apply post test routine		

TP number	TP 101 039	Reference	[1], clause 7.2.1		
ir number	11 _101_039	Kelefelice			
			[2], clause 7.2.3.1.2A.2		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.2/1 OR PICS 7.2.2/2	OR PICS 7.2.2/3 AND PICS 7	7.2.2/4		
Test Purpose name	Sending of Number Portability	Forward Information			
Test Purpose	Ensure that on receipt of an ini	tial INVITE request containing	the <b>rn</b> and <b>npdi</b> parameters		
	in the request line, an INVITE	with encapsulated IAM is sent.	. The INVITE with		
	encapsulated IAM contains the	Number Portability Forward I	nformation parameter set		
	according the following roles	, , , , , , , , , , , , , , , , , , , ,	,		
	9	atabase Dip Indicator is prese	ant and a Number Portability		
		Routing Number is present, set to "number portability query done for called number,			
IOUD D	ported called subscriber".				
ISUP Parameter values	IAM:				
	Number Portability Forward Information				
SIP Parameter values	INVITE:				
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>				
	INVITE (IAM):				
	Request URI: sip: <called number="">;</called>				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<b>→</b>	INVITE (IAM)		
	100 Trying ←		,		
	Apply post test routine				
	, the post tool routing				

TP_101_040	Reference	[1], clause 7.2.1
		[2], clause 7.2.3.1.2A.2
SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /		
PICS 7.2.2/1 OR PICS 7.2.2/2	OR PICS 7.2.2/3 AND PICS 7	.2.2/4
Sending of Number Portability I	Forward Information	
Ensure that on receipt of an init	ial INVITE request containing	the <b>rn</b> parameters in the
request line, an INVITE with en	capsulated IAM is sent. The II	NVITE with encapsulated IAM
contains the Number Portability	Forward Information paramet	er set according the following
roles		
<ul> <li>If there is no Number Porta</li> </ul>	ability Database Dip Indicator,	set to "number portability
query not done for called number"		
IAM:		
Number Portability Forward Information		
INVITE:		
Request URI: sip: <called number="">; rn=<number number="" portability="" routing=""></number></called>		
INVITE (IAM):		
Request URI: sip: <called number="">;</called>		
SIP NNI	MGCF	SIP-I
INVITE →	<b>→</b>	INVITE (IAM)
100 Trying ←		, ,
Apply post test routine		
	SIP NNI - SIP-I/Basic call/Send PICS 7.2.2/1 OR PICS 7.2.2/2 Sending of Number Portability In Ensure that on receipt of an init request line, an INVITE with encontains the Number Portability roles If there is no Number Portaguery not done for called noted in INVITE: Request URI: sip: <called (iam):="" (iam):<="" <called="" in="" invite="" noted="" request="" sip:="" th="" uri:=""><th>SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request / PICS 7.2.2/1 OR PICS 7.2.2/2 OR PICS 7.2.2/3 AND PICS 7 Sending of Number Portability Forward Information Ensure that on receipt of an initial INVITE request containing request line, an INVITE with encapsulated IAM is sent. The INcontains the Number Portability Forward Information parametroles  If there is no Number Portability Database Dip Indicator, query not done for called number"  IAM:  Number Portability Forward Information  INVITE:  Request URI: sip: <called number="">; rn=<number (iam):="" <called="" invite="" number="" portabil="" request="" sip:="" uri:="">;  SIP NNI MGCF  INVITE   O Trying</number></called></th></called>	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request / PICS 7.2.2/1 OR PICS 7.2.2/2 OR PICS 7.2.2/3 AND PICS 7 Sending of Number Portability Forward Information Ensure that on receipt of an initial INVITE request containing request line, an INVITE with encapsulated IAM is sent. The INcontains the Number Portability Forward Information parametroles  If there is no Number Portability Database Dip Indicator, query not done for called number"  IAM:  Number Portability Forward Information  INVITE:  Request URI: sip: <called number="">; rn=<number (iam):="" <called="" invite="" number="" portabil="" request="" sip:="" uri:="">;  SIP NNI MGCF  INVITE   O Trying</number></called>

TP number	TP_101_041	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2B.1	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /			
Selection criteria	PICS 7.2.2/5 AND PICS 7.2.2/6	•		
Test Purpose name	Request URI cic parameter is r	napped into IAM TNS parame	ter	
Test Purpose	Ensure that on receipt of an init			
	request line, an INVITE with encapsulated IAM is sent. The Transit network selection			
	parameter is set to:	·		
	Type of network identific	ation: CCITT-standardized id	entification or national network	
	identification.			
	Network identification plan: according value of Type of network identification			
	Network identification: digits derived from the carrier identification code value of the			
	cic parameter			
ISUP Parameter values	IAM:			
	Transit network selection BICC ?			
SIP Parameter values	INVITE:			
	Request URI: sip: <called number="">; cic=&lt; Carrier identification code &gt;</called>			
	INVITE (IAM):			
	Request URI: sip: <called number="">;</called>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

TP number	TP_101_042	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2B.2
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request /	
Selection criteria	PICS 7.2.2/5 AND PICS 7.2.2/7	7 AND PICS 7.1.1/2	
Test Purpose name	Carrier Selection Information pa	arameter is sent	
Test Purpose	Ensure that on receipt of an init	tial INVITE request containing	the <b>cic</b> and <b>dai</b> parameter in
	the request line, an INVITE with		
	Information parameter is set to	the values indicated in table 6	.1.1.1-10
ISUP Parameter values	IAM:		
	Carrier Selection Information	n	
SIP Parameter values	INVITE:		
	Request URI: sip: <called n<="" th=""><th>umber&gt;; cic=&lt; Carrier identific</th><th>ation code &gt;; dai= SIP_dai</th></called>	umber>; cic=< Carrier identific	ation code >; dai= SIP_dai
	INVITE (IAM):		
	Request URI: sip: <called n<="" th=""><th>umber&gt;;</th><th></th></called>	umber>;	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
	-	Apply post test routine	

Table 6.1.1.1-10: Mapping of SIP Dial Around Indicator to ISUP Carrier Selection Information

SIP_dai	SIP "dai=" component	ISUP Carrier Selection Information parameter
SIP_dai_VA_01	'no ind'	'no indication' (00)
SIP_dai_VA_02	"presub"	'selected carrier identification code pre-subscribed and no input by calling party' (01)
SIP_dai_VA_03	"presub-da"	selected carrier identification code presubscribed and input by calling party (02)
SIP_dai_VA_04	"presub-daUnkwn"	selected carrier identification pre-subscribed and input by calling party undetermined (03)
SIP_dai_VA_05	"da"	selected carrier identification not pre-subscribed, and input by calling party (04)
SIP_dai_VA_06	"CIC-chrgPty"	'no indication' (00)
SIP_dai_VA_07	"altCIC-chrgPty"	'no indication' (00)
SIP_dai_VA_08	"verbal-clgPty"	selected carrier identification code not presubscribed and input by calling party (04)
SIP_dai_VA_09	"verbal-chrgPty"	'no indication' (00)
SIP_dai_VA_10	"emergency"	'no indication' (00)
SIP_dai_VA_11	"presubUnkwn-da"	carrier selected by input from calling party (10)
SIP_dai_VA_12	"operator"	carrier selected by a network operator (11)

## 6.1.1.2 Sending of UPDATE

TP number	TP_102_001		Reference		[1], clause 7.2.1 [2], clause 7.2.3.1.3
TSS reference	SIP NNI - SIF	P-I/Basic call/Send	ing of COT/		[2], 014450 7.2.0.1.0
Selection criteria			AND NOT PICS 6.2.1	/4	
Test Purpose name	Sending of U				
Test Purpose	If the INVITE shall be sent, the requi	with an encapsula when all of the fo ested precondition le outstanding con	llowing conditions have s (if any) in the IMS ne	e been r twork h	nt, the UPDATE message met: ave been met cessfully performed on the
ISUP Parameter values	or "Co	ntinuity check req	uired on this circuit"	eck per	formed on a previous circuit"
SIP Parameter values	INVITE: Re	equire: preconditio a=curr:qos local a=curr:qos remo a=des:qos mand a=des:qos none	none se none atory local sendrecv		
	183: Require SDP	a=curr:qos local a=curr:qos remo a=des:qos mand	te none atory local sendrecv atory remote sendrecv		
	UPDATE: SDP				
	200 OK UPD SDP	a=curr:qos local a=curr:qos remo a=des:qos mand			
Comments					
Message flows	INVITE 100 Trying 183 Session PRACK 200 OK (PRAUPDATE 200 OK (UPE	→ ACK) ← →	MGCF  Apply post test rou	→ ← → ← + tine	SIP-I INITE (IAM) 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)

TP number	TP_102_002		Reference		[2], clause 7.3.3.1.3
TSS reference	SIP NNI - SI	P-I/Basic call/S	ending_of_COT/		
Selection criteria	PICS 6.1.1/2	AND PICS 6.2	2.1/1 AND NOT PIC	S 6.2.1/4	
Test Purpose name	Sending of B	ICC UPDATE			
Test Purpose			ate IAM has already	been sent, th	ne UPDATE message shall be
-			ng conditions have k		3
			tions (if any) in the I		have been met
	- a possib	le outstanding	continuity check pro	cedure is su	ccessfully performed on the
	outgoing	circuit			
ISUP Parameter values	IAM: Natur	e of connection	indicator = "COT to	be expected	j"
SIP Parameter values	INVITE: R	equire: precond	lition		
	SDP	a=curr:qos lo	cal none		
		a=curr:qos re	mote none		
		a=des:qos ma	andatory local send	recv	
		a=des:qos no	ne remote sendrect	/	
	100.5	. 400!			
	183: Require				
	SDP	a=curr:qos lo			
		a=curr:qos re			
			andatory local send		
			andatory remote ser	narecv	
		a=conf.qos re	emote sendrecv		
	UPDATE:				
	SDP	a=curr:qos lo	cal sendrecy		
	52.	a=curr:qos re			
			andatory local send	recv	
			andatory remote ser		
		, , , , , ,	,		
	200 OK UPD	ATE			
	SDP	a=curr:qos lo	cal sendrecv		
			mote sendrecv		
			andatory local send		
		a=des:qos ma	andatory remote ser	ndrecv	
Comments					
Message flows		NNI	MGCF		SIP-I
	INVITE		<b>→</b>	<b>→</b>	INVITE (IAM)
	100 Trying		<b>←</b>	<b>←</b>	100 Trying
	183 Session	Progress	<del>(</del>	<del>-</del>	183 Session Progress
	PRACK		<b>→</b>	<b>→</b>	PRACK
	200 OK (PR	ACK)	<del>(</del>	<b>←</b>	200 OK (PRACK)
	UPDATE		<b>→</b>	<b>→</b>	UPDATE
	200 OK (UPI	DATE)	<b>←</b>	<b>←</b>	200 OK (UPDATE)
			Apply post to	st routine	

## 6.1.1.3 Receipt of multiple INVITE request and in-dialog SIP INFO request

TP number	TP_103_001	Reference	[1], clause 7.2.3
			[2] 7.2.3.1.3A.2
TSS reference	SIP-ISUP/Basic call/ Receipt o	f in-dialog SIP INFO requests	16 3
Selection criteria	PICS 7.2.3/1		
Test Purpose name	Receipt of INFO request		
Test Purpose	If the MGCF supports overlap s	signalling from the preceding IN	MS node and the first
	incoming SIP INVITE request of		
	not forward this first SIP INVITI		
	by the MGCF to collect all digit	s required to identify the called	subscriber.
ISUP Parameter values			
SIP Parameter values	INVITE: Supported: 100rel		
	183 Session Progress: Suppor	ted: 100rel or Required: 100rel	
	INFO:		
	Content-Type: application/x	-session-info	
	SubsequentDigit: <addition< th=""><th>al digits&gt;</th><th></th></addition<>	al digits>	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →		
	100 Trying ←		
	183 Session Progress ←		
	INFO ->		
	200 OK (INFO) ←		
	INFO -	<b>→</b>	INVITE (IAM)
	200 OK (INFO) ←		
	180 Ringing(3) ←	<b>←</b>	180 Ringing(ACM)
		Apply post test routine	5 5, ,

TP number	TP_103_002	Reference	[1	I], clause 7.2.3
			[2	2], clause 7.2.3.1.3A.3
TSS reference	SIP NNI - SIP-I/Basic call/ Rec	eipt of multiple INVITE reques	st	
Selection criteria	PICS 6.2.3/2			
Test Purpose name	Receipt of multiple INVITE req	uest		
Test Purpose	If the MGCF supports overlap	signalling from the preceding	IMS no	de and the first
	incoming SIP INVITE request			
	not forward this first SIP INVIT			
	used by the MGCF to collect a	II digits required to identify the	called	subscriber.
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE(1)	<b>→</b>	<b>→</b>	
	CASE A			
	INVITE(2)	<b>→</b>	<b>→</b>	
	484 Address Incomplete(1)	<b>←</b>	<b>←</b>	
	ACK	<b>→</b>	<b>→</b>	
	INVITE(3)	<b>→</b>	<b>→</b>	INVITE (IAM)
	484 Address Incomplete(2)	<b>←</b>	<b>←</b>	
	180 Ringing(3)	<b>←</b>	<b>←</b>	180 Ringing(ACM)
	CASE B			
	484 Address Incomplete(1)	←		
	ACK	<b>→</b>		
	INVITE(2)	<b>→</b>		
	484 Address Incomplete(2)	<b>←</b>		
	ACK	<b>→</b>		
		_		
	INVITE(3)	→	<b>→</b> Ⅱ	NVITE (IAM)
	100 5: (0)	_	<b>.</b> .	100 D: : (4 OM)
	180 Ringing(3)	<b>←</b>	← 1	180 Ringing (ACM)
		Apply post test routine		

## 6.1.1.4 Sending of 18x provisional responses

TP number	TP_104_001	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4
TSS reference	SIP NNI - SIP-I/Basic ca	II/Sending_of_18x/	
Selection criteria			
Test Purpose name			apsulated ACM was received
Test Purpose	The SUT shall send the	SIP 180 Ringing when recei	ving the following messages:
		vith Called party's status indi	
ISUP Parameter values	ACM: BCI Called party	status indicator = subscriber	free
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	← 100 Trying
	180 Ringing	<b>←</b>	← 180 Ringing (ACM)
		Apply post test ro	

TP number	TP_104_002	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/	
Selection criteria			
Test Purpose name	Sending of 180 Ringing after (	CPG was received	
Test Purpose	The SUT shall send the SIP 1	80 Ringing when receiving the	following messages:
	- 180 Ringing (CPG) with Ev	ent indicator set to ALERTING	).
ISUP Parameter values	ACM: BCI Called party status	indicator = no indication	
	<b>CPG:</b> Event indicator = ALER	RTING	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	<b>→</b>	INVITE (IAM)
	100 Trying	-	
	•	<del>-</del>	183 Session Progress
			(ACM - no indication)
	180 Ringing	- <b>←</b>	180 Ringing
			CPG(ALERTING)
		Apply post test routine	·

TP number	TP_104_003	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4
TSS reference	SIP NNI - SIP-I/Basic cal	I/Sending_of_18x/	
Selection criteria	PICS 6.2.1/9		
Test Purpose name	ACM received, P-Earl-Me	edia header present in 18	0
Test Purpose			capsulated ACM subscriber free a 180
	Ringing is sent. In the 18	0 Ringing a P-Early-Medi	a header is present indicating
	authorization of early me	dia	
ISUP Parameter values	IAM: 3,1 kHz audio		
	ACM: BCI Called party s	status indicator = free	
SIP Parameter values	INVITE:		
	Supported: 100rel		
	P-Early-Media: suppo	orted	
	180 ringing		
	P-Early-Media: < auth	norization of early media>	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	180 Ringing	<b>←</b>	← 180 Ringing (ACM -free)
	PRACK	<b>→</b>	→ PRACK
	200 OK (PRACK)	<b>←</b>	← 200 OK (PRACK)
	, ,	Apply post test	

TP_104_004	Reference	[1], clause 7.2.1
		[2], clause 7.2.3.1.4
SIP NNI - SIP-I/Basic o	all/Sending_of_18x/	
PICS 6.2.1/10		
Provide media in a Cal	I-Info header field, or an Ale	ert-Info header field in a 180
ACM: BCI Called party	y status indicator = subscrib	er free
	•	
SIP NNI INVITE 100 Trying 180 Ringing	MGCF  →  ←  Apply post test	SIP-I  → INVITE (IAM)  ← 100 Trying  ← 180 Ringing (ACM - free)  routine
	SIP NNI - SIP-I/Basic of PICS 6.2.1/10  Provide media in a Call Ensure that the SUT is the PSTN in a Call-Info ACM: BCI Called party 180:  Call-Info: <media 100="" <media="" alert-info:="" invite="" nni="" re="" sip="" th="" trying<=""><th>SIP NNI - SIP-I/Basic call/Sending_of_18x/ PICS 6.2.1/10  Provide media in a Call-Info header field, or an Ale Ensure that the SUT is able to provide media inste the PSTN in a Call-Info header field, or an Alert-Info ACM: BCI Called party status indicator = subscrib 180: Call-Info: <media resource="">; or Alert-Info: <media resource="">  SIP NNI  INVITE  100 Trying  MGCF</media></media></th></media>	SIP NNI - SIP-I/Basic call/Sending_of_18x/ PICS 6.2.1/10  Provide media in a Call-Info header field, or an Ale Ensure that the SUT is able to provide media inste the PSTN in a Call-Info header field, or an Alert-Info ACM: BCI Called party status indicator = subscrib 180: Call-Info: <media resource="">; or Alert-Info: <media resource="">  SIP NNI  INVITE  100 Trying  MGCF</media></media>

TP number	TP_104_005	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4A
TSS reference	SIP NNI - SIP-I/Basic call/S	ending_of_18x/	
Selection criteria	PICS 6.2.1/10		
Test Purpose name	Provide media in a Call-Info	header field, or an Alert-Inf	o header field in a 183
Test Purpose			the in-band media received from
		der field, or an Alert-Info hea	ader field present in a 183 Session
	Progress		
ISUP Parameter values	ACM: BCI Called party stat	us indicator = no indication	
SIP Parameter values	183:		
	Call-Info: <media resour<="" th=""><th>ce&gt;; or</th><th></th></media>	ce>; or	
	Alert-Info: <media resou<="" th=""><th>rce&gt;</th><th></th></media>	rce>	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	← 100 Trying
	183 Session Progress	←	← 183 Session Progress
			ACM(no indication)
		Apply post test routi	ne

[2], clause 7.2.3.1.4     TSS reference
Selection criteria
Test Purpose name Test Purpose Ensure that on receipt of an 18x Message with encapsulated ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent or 183 Session progress is sent. The Progress Indicator IE contained in the ACM ATP or CPG ATP parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2.  Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PL_value Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PL_value ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available' CPG: ATP contains a Progress Indicator IE  180:
Ensure that on receipt of an 18x Message with encapsulated ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent or 183 Session progress is sent. The Progress Indicator IE contained in the ACM ATP or CPG ATP parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2.  Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value  ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi inband info available' CPG: ATP contains a Progress Indicator IE  180:  - ?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet3 CodingStandard>00< Location 183: - ?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressDescription>PI_value 183: - ?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator
subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent or 183 Session progress is sent. The Progress Indicator IE contained in the ACM ATP or CPG ATP parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2.  Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value  Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  SIP Parameter values  180: Acm</th
parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2.  • Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value  • Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free CASE B BCi called party status = no indication oBCi "inband info available"  CPG: ATP contains a Progress Indicator IE  SIP Parameter values  180: Acceptable</th
Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value Pl_value Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value Pl_value  ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  180:    SIP Parameter values
Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value  ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  SIP Parameter values  180:
ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  SIP Parameter values  180: All Called party status = subscriber free BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  180:  <! All Called party status = subscriber free BCi Called party status = no indication oBCi Called party status = no indicator obci called part</th
CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet3 CodingStandard>00< Location <yyyy> ProgressOctet4 ProgressDescription&gt;PI_value&lt;  183: <?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator</yyyy>
oBCi 'inband info available'  CPG: ATP contains a Progress Indicator IE  180:
CPG: ATP contains a Progress Indicator IE  SIP Parameter values  180:
SIP Parameter values  180: <pre> <pre> <pre> <pre> <pre></pre></pre></pre></pre></pre>
PSTN ProgressIndicator ProgressOctet3 CodingStandard>00< Location ProgressOctet4 ProgressDescription>PI_value<  183: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator
ProgressIndicator ProgressOctet3 CodingStandard>00< Location   Location ProgressOctet4   ProgressDescription PI_value<    183: <a 1.0"="" ?="" encoding="utf-8" href="mailto:removed-selection-state-s&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;ProgressOctet3 CodingStandard&gt;00&lt; Location&lt;/p&gt; Location ProgressOctet4 ProgressDescription&gt;PI_value&lt;  183: &lt;?xml version="> PSTN ProgressIndicator</a>
CodingStandard>00<
Location <pre>Location ProgressOctet4 ProgressDescription&gt;PI_value</pre> 183: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator
ProgressOctet4 ProgressDescription>PI_value<  183: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator
ProgressDescription>PI_value<  183: xml version="1.0" encoding="utf-8"? PSTN  ProgressIndicator
183: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator
xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator
xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator
ProgressIndicator
ProgressOctet3
CodingStandard>00<
Location <yyyy></yyyy>
ProgressOctet4
ProgressDescription> <b>PI_value</b> <g< th=""></g<>
Comments
Message flows SIP NNI MGCF SIP-I
INVITE → INVITE (IAM)
CASE A
180 Ringing ← 180 Ringing (ACM free)  ATP contains a Progress Indicator IE)
CASE B
183 Session Progress ←
180 Ringing ← ← CPG (ATP contains a Progress Indicator IE)
Apply post test routine

TSS reference   SIP NNI - SIP-l/Basic call/Sending_of_18x/  Selection criteria   PICS 6.2.1/5   Test Purpose   Mapping of High layer compatibility received in a 18x Message with encapsulated ACM/CPG   Test Purpose   Ensure that on receipt of an18x Message with encapsulated ACM called party status subscriber free or a 183 with a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM ATP or CPG ATP parameter is mapped into the HighLayer/compatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.  ■ High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayer/Compatibility value HLC_value   High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayer/Compatibility value HLC_value   ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE CASE B BCi Called party status = no indication oBCi 'inband info available'   CPG: ATP contains a High layer compatibility IE   SIP Parameter values   180: Acceptable of the contains a High layer compatibility IE   IBO: </- **CYMI version="1.0" encoding="utf-8"?> PSTN HighLayerCompatibility HLOctet3   CodingStandard>00 **Interpretation>100 **PresentationNethod>01 **HLOctet4 HighLayerCharacteristics>HLC_value **COmments **Message flows **SIP NNI MGCF SIP-I INMVITE (IAM) **CASE A 180 Ringing (ACM) (ATP contains HLC) **CASE B	TP number	TP_104_007	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.4		
Selection criteria	TSS reference	SIP NNI - SIP-I/Rasic call/Ser	oding of 18v/	[[2], Clause 1.2.3.1.4		
Test Purpose name						
Test Purpose  Ensure that on receipt of an18x Message with encapsulated ACM called party status subscriber free or a 183 with a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM ATP or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.  High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ACM: CASE A BCI Called party status = subscriber free ATP contains a High layer compatibility IE  CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  180:						
subscriber free or a 183 with a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM ATP or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.  • High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  • High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ISUP Parameter values  ACM: CASE A BCI Called party status = subscriber free ATP contains a High layer compatibility IE CASE B BCI Called party status = no indication oBCi "inband info available"  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180: ATP contains a High layer compatibility IE  SIP Parameter values  180:  <! ATP contains a High layer compatibility IE  SIP PSTN  HighLayerCompatibility  HLOctet3  CodingStandard 00< Interpretation>100 <th>-</th> <th>ACM/CPG</th> <th>•</th> <th></th>	-	ACM/CPG	•			
High layer compatibility IE contained in the ACM ATP or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.  • High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  • High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  • ACM: CASE A BCI called party status = subscriber free ATP contains a High layer compatibility IE  CASE B BCI called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationNethod>01< HLOctet4  HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI MGCF SIP-I  INVITE	Test Purpose					
into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.  • High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  • High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE  CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180: <pre> <pre> <pre> <pre> <pre></pre></pre></pre></pre></pre>						
table 6.1.1.4-3.  High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE  CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  180: <pre> </pre> SIP Parameter values  SIP NI HighLayerCompatibility  HLOctet3  CodingStandard>00  Interpretation>100<  PresentationMethod>01  HLOctet4  HighLayerCharacteristics>HLC_value  Comments  Message flows  SIP NNI MGCF SIP-I  INVITE						
High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value     High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE  CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180: <pre></pre>			ty PSTN AME element in the	180 as indicated in		
Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE  CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  180:  -2 xml version="1.0" encoding="utf-8"?> PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4  HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI MGCF SIP-I  INVITE			accived in an ACM called part	v status subscribor frog 180		
HLC_value  High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE CASE B BCi Called party status = no indication oBCi 'inband info available' CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180: <pre> </pre> <pre></pre>		Pinging is sent in the DS	TN YML element contains the	High averCompatibility value		
High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value    ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE CASE B BCi Called party status = no indication oBCi 'inband info available'   CPG: ATP contains a High layer compatibility IE			THE AIME Element Contains the	TilgitLayerCompatibility value		
Sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free ATP contains a High layer compatibility IE CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI NGCF SIP-I INVITE → INMVITE (IAM)  CASE A  180 Ringing ← 180 Ringing (ACM) (ATP contains HLC)  CASE B			eceived in an CPG Event indic	eator AI FRTING 180 Ringing is		
ACM: CASE A   BCi Called party status = subscriber free   ATP contains a High layer compatibility IE   CASE B   BCi Called party status = no indication oBCi 'inband info available'   CPG: ATP contains a High layer compatibility IE						
ATP contains a High layer compatibility IE  CASE B  BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180:	ISUP Parameter values					
CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180:						
CPG: ATP contains a High layer compatibility IE  SIP Parameter values  180:		CASE B BCi Call	ed party status = no indication	í l		
180:   <pre>  <pre>  <pre>  </pre>  <pre>  <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>						
<pre> </pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		CPG: ATP contains a High la	ayer compatibility IE			
PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI MGCF SIP-I INVITE → INMVITE (IAM)  CASE A 180 Ringing ← 180 Ringing (ACM) (ATP contains HLC)  CASE B	SIP Parameter values					
HLÖctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI INVITE  → INMVITE (IAM)  CASE A 180 Ringing  ← ← 180 Ringing (ACM) (ATP contains HLC)  CASE B			="utf-8"?>			
CodingStandard>00<		HighLayerCompatibility				
Interpretation>100<		HLOctet3				
PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI INVITE INVITE INMVITE (IAM)  CASE A 180 Ringing  CASE B						
HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI INVITE → INMVITE (IAM)  CASE A 180 Ringing  ← 180 Ringing (ACM) (ATP contains HLC)  CASE B						
HighLayerCharacteristics>HLC_value<  Comments  Message flows  SIP NNI INVITE → INMVITE (IAM)  CASE A 180 Ringing  ← 180 Ringing (ACM) (ATP contains HLC)  CASE B			d>01<			
Comments  Message flows  SIP NNI INVITE  → MGCF SIP-I INMVITE (IAM)  CASE A 180 Ringing  ← 180 Ringing (ACM) (ATP contains HLC)  CASE B						
Message flows  SIP NNI INVITE  → INMVITE (IAM)  CASE A 180 Ringing  ← 180 Ringing (ACM) (ATP contains HLC)  CASE B	Comments	HighLayerCharacte	eristics>HLC_value<			
INVITE   INMVITE (IAM)  CASE A  180 Ringing   180 Ringing (ACM) (ATP contains HLC)  CASE B		SID MMI	MGCE	SID I		
CASE A 180 Ringing ← 180 Ringing (ACM) (ATP contains HLC)  CASE B	Wessage Hows	*** ****				
180 Ringing ← 180 Ringing (ACM) (ATP contains HLC)		IIIVII L	,	INVIVITE (IAW)		
180 Ringing ← 180 Ringing (ACM) (ATP contains HLC)		CASE A				
(ATP contains HLC)			<u>-</u>	180 Ringing (ACM)		
CASE B		Too ranging	-			
V 19 = -				(		
183 Session Progress ← 183 Session Progress		CASE B				
		183 Session Progress	<del>-</del>	183 Session Progress		
(ACM)						
180 Ringing ← 180 Ringing (CPG)		180 Ringing	÷ +			
(ATP contains HLC)				(ATP contains HLC)		
Apply post test routine			Apply post test routine			

TP number	TP_104_008	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/				
Selection criteria		PICS 6.2.1/5			
Test Purpose name	Mapping of Low layer compati				
Test Purpose	mapped into the LowLayerCortable 6.1.1.4-4.	ed CPG event indicator ALERT contained in the ACM ATP or impatibility PSTN XML element	ING, a 180 Ringing is sent. CPG ATP parameter is in the 180 as indicated in		
	Ringing is sent in the PSI ITC_value	ceived in an ACM called party 'N XML element contains the L ceived in an CPG Event indica	LowLayerCompatibility value		
		ement contains the LowLayerC			
ISUP Parameter values		ed party status = subscriber fre			
		ed party status = no indication			
		and info available			
	CPG: ATP contains a Low lay				
SIP Parameter values	180:	, o. copans, :=			
on randinotor values	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
	LLOctet4>				
	TransferMode>00<				
	InformationTransfer	'Rate>10000<			
Comments	OID NINII		OID I		
Message flows	SIP NNI INVITE -3	MGCF →	SIP-I INVITE (IAM)		
	CASE A				
	180 Ringing	·	180 Ringing (ACM) (ATP contains LLC)		
	CASE B		,		
	183 Session Progress	•	183 Session Progress (ACM)		
	180 Ringing	·	180 Ringing CPG (ATP contains LLC)		
		Apply post test routine			

TP number	TP_104_009	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding of 18y/	[[2], clause 1.2.3.1.4		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Bearer Capability	received in a 18x with encapsu	ulated ACM/CPG		
Test Purpose name					
·	Ensure that on receipt of an 18x message with encapsulated ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACM ATP or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 180 as indicated in table 6.1.1.4-5.  Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value  Bearer Capability received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value				
ISUP Parameter values	ATP contains a BC IE CASE B BCi Calle	ed party status = subscriber fr ed party status = no indication pand info available' Capability IE			
SIP Parameter values	180: 0 InformationTransfe BCoctet4 TransferMode>00< InformationTransfe BCoctet5> Layer1Identificatior UserInfoLayer1Pro	0< rCapability>ITC_value< rRate>10000< n>01<			
Comments					
Message flows	SIP NNI INVITE	MGCF	SIP-I INVITE (IAM)		
	180 Ringing	<del>·</del>	180 Ringing (ACM – free) (ACM with ATP contains a Bearer Capability IE)		
	183 Session Progress  180 Ringing		(ACM – no indication) 180 (CPG with ATP contains		
		Apply post test routine	a Bearer Capability IE)		

TP number	TP_104_010	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4	
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indi	icator into PSTN XML Progress	sIndicator element value 1 sent	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")			
ISUP Parameter values	ACM: BCI ISDN User Part in	dicator = ISDN User Part not u	sed all the way	
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<			
Comments				
Message flows	SIP NNI INVITE 100 Trying 180 Ringing	÷	SIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM)	

TP number	TP 104 011	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4	
TSS reference	SIP NNI - SIP-I/Basic call	/Sending_of_18x/	[L ])	
Selection criteria	PICS 6.2.1/5	<u> </u>		
Test Purpose name	Mapping of Backward cal in 180	I indicator into PSTN XM	L ProgressIndicator element value 2 sent	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)			
ISUP Parameter values	ACM: BCI ISDN User	Part indicator = ISDN Us	er Part used all the way	
	ISDN acces	ss indicator = Terminatin	g access non-ISDN	
SIP Parameter values	180 Ringing xml version="1.0" enco PSTN ProgressIndicator ProgressOctet4 ProgressDesci</th <th>oding="utf-8"?&gt; ription&gt;<b>0000010</b>&lt;</th> <th></th>	oding="utf-8"?> ription> <b>0000010</b> <		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>	← 100 Trying	
	180 Ringing	<del>-</del>	← 180 Ringing (ACM)	
		Apply post test	routine	

TP number	TP_104_012	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indic in 180	ator into PSTN XML ProgressI	ndicator element value 7 sent	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7			
ISUP Parameter values		ndicator = ISDN User Part use icator = Terminating access IS	•	
SIP Parameter values	180 Ringing xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	IAM	
	100 Trying ←	<b>←</b>	100 Trying	
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)	
		Apply post test routine		

	TD 404 040	In .	Tr. 1 = 7.0.4		
TP number	TP_104_013	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic of	call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name		ackward call indicator into	PSTN XML ProgressIndicator element		
	value 8 sent in 180				
Test Purpose			M and the optional Backward call indicator		
			n or an appropriate pattern is now		
	available, a 180 Ringin	ig is sent. A PSTN XML P	rogressIndicator element is present the		
	value is set to No 8				
ISUP Parameter values	ACM: oBCI In-band	information indicator in-ba	and information or an appropriate pattern is		
	now ava	ilable			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4	ļ			
	ProgressDe	scription>0001000<			
Comments		•			
Message flows	SIP NNI	MGCF	SIP-I		
_	INVITE	<b>→</b>	→ INVITE (IAM)		
	100 Trying	<b>←</b>	← 100 Trying		
	180 Ringing	<b>←</b>	← 180 Ringing (ACM)		
		Apply post tes	<b>5 5</b> , ,		

TP number	TP_104_014	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of 18x/	[[2], Olddoc 1.2.0.1.4		
Selection criteria	PICS 6.2.1/5	<u>g_oi_10,</u> x			
Test Purpose name	The SUT performs Fall back (B	ICC 2)			
Test Purpose	Ensure that on receipt of an IN	VITE request and the subsequ	ent ISUP/BICC network is not		
·	Ensure that on receipt of an INVITE request and the subsequent ISUP/BICC network is not able to perform Fall back, Fall back is performed in the SUT: The TMR in the sent INVITE (IAM) is set to 'speech' or '3,1 kHz audio' USI is copied from the first BearerCapability element received in the PSTN XML. Upon an ACM is received a 180 Ringing is sent				
ISUP Parameter values					
SIP Parameter values	INVITE: PSTN XML MIME botology of the content of th	<pre>"utf-8"?&gt; </pre> Capability>00000 Capability>10000 Capability>10001 <pre>"utf-8"?&gt; &gt;0000101</pre>			
	InformationTransferCapability>00000<				
	InformationTransfero				
Comments	Fallback is performed in the SL				
Message flows	SIP NNI INVITE → 100 Trying ← 180 Ringing ←	MGCF	SIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM)		

TP number	TP_104_015	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Receipt of TMU speech, no BC	present in ATP (BICC)			
Test Purpose	Ensure that on receipt of a Trai	nsmission medium used param	neter set to speech in the 180		
	Ringing with an ACM, a 180 Ri	nging is sent and a PSTN XML	BearerCapability element is		
	present the InformationTransfe	rCapability is set to Speech	•		
ISUP Parameter values	ACM: Transmission medium u	sed = speech			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding=</th <th>"utf-8"?&gt;</th> <th></th>	"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>00000<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←	<b>←</b>	100 Trying		
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)		
		Apply post test routine			

TP number	TP 104 016	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/	1, 1,		
Selection criteria	PICS 6.2.1/5	<del></del>			
Test Purpose name	Receipt of TMU 3,1 kHz audio,	no BC present in ATP			
Test Purpose	Ensure that on receipt of a Trai				
	the 180 Ringing with encapsula	ited ACM, a 180 Ringing is ser	nt and a PSTN XML		
	BearerCapability element is pre	esent the InformationTransferC	apability is set to 3,1 kHz		
	audio				
ISUP Parameter values	ACM: Transmission medium u	sed = 3,1 kHz audio			
SIP Parameter values	180 Ringing				
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>10000<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←	<b>←</b>	100 Trying		
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)		
		Apply post test routine			

TP number	TP_104_017	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4.1	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapak	pility sent in 180	
Test Purpose	Ensure that on receipt of a Tra			
	Capability IE in the 180 Ringing			
	PSTN XML BearerCapability e	lement is present the Informati	onTransferCapability is set as	
	indicated in table 6.1.1.4-1			
ISUP Parameter values	ACM: Transmission medium u	ised, ATP Bearer Capability IE		
SIP Parameter values	180 Ringing			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability>ITC_value<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←	<b>←</b>	100 Trying	
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)	
		Apply post test routine		

TP number	TP_104_018	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapal	bility sent in 183		
Test Purpose	Ensure that on receipt of a Tra	nsmission medium used parar	neter and in the ATP a Bearer		
	Capability IE in the 180 Ringing	g with encapsulated ACM, a 18	83 Session Progress is sent		
	and a PSTN XML BearerCapa	bility element is present the Inf	formationTransferCapability is		
	set as indicated in table 6.1.1.4	<b>I-1</b>			
ISUP Parameter values	ACM: Transmission medium u	sed, ATP Bearer Capability IE			
	BCi Called party status	= no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
		•			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b>	INVITE (IAM)		
	100 Trying ←	<b>←</b>	100 Trying		
	183 Session Progress ←	<b>+</b>	183 Session Progress		
	(ACM)				
	Apply post test routine				

Table 6.1.1.4-1: Mapping of TMU and Bearer capability IE to PSTN XML BearerCapability

ITC_value	← 180 Ringing or 183 Session Progress		←ACM/CPG
ITC_value_VA_01	PSTN XML BearerCapability = "Speech"	TMU	"Speech"
		ATP	BC "speech"
ITC_value_VA_02	PSTN XML BearerCapability = "Speech"	TMU	"3,1 kHz audio"
		ATP	BC "speech"
ITC_value_VA_03	PSTN XML BearerCapability = "3,1 kHz audio"	TMU	"Speech "
		ATP	BC "3,1 kHz audio"
ITC_value_VA_04	PSTN XML BearerCapability = "3,1 kHz audio"	TMU	"3,1 kHz audio"
		ATP	BC "3,1 kHz audio"

TP number	TP_104_019	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4A		
TSS reference	SIP NNI - SIP-I/Basic ca				
Selection criteria	NOT PICS 6.2.1/5 AND	NOT PICS 6.2.1/9			
Test Purpose name	ACM no indication recei	ved, no SIP response is se	ent		
Test Purpose		Ensure that on receipt of an early 183 Session Progress with encapsulated ACM no SIP response is sent if the INVITE does not contain a P-Early-Media header			
ISUP Parameter values	IAM: 3,1 kHz audio ACM: BCI Called party	status indicator = no indica	ation		
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ IAM		
			← ACM(no indication)		
		Apply post test	routine		

TP number	TP_104_020	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4A		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	ACM received, P-Earl-Media h	neader present in 183			
Test Purpose		ssion Progress with an encaps			
	Session Progress is sent. In the	ne 183 session Progress a P-E	arly-Media header is present		
	indicating authorization of earl	y media			
ISUP Parameter values	IAM: 3,1 kHz audio				
	<b>ACM:</b> BCI Called party status	indicator = no indication			
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: supported				
	183 Session Progress				
	P-Early-Media: < authoriza	tion of early media>			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b>	INVITE (IAM)		
	183 Session Progress	·	183 Session Progress ACM (no indication)		
	PRACK -	<b>→</b>	PRACK		
	200 OK (PRACK)	·	200 OK (PRACK)		
		Apply post test routine			

TP number	TP_104_021	Reference	[1], clause 7.2.1		
			[2], clauses 7.2.3.1.4A,		
			table, 7.2.3.1.4A.1		
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_18x/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	CPG received, P-Earl-Media	header present in 183			
Test Purpose		containing an optional backwa			
		is now available a 183 Session			
	session Progress a P-Early-N	ledia header is present indicatir	ng authorization of early media		
ISUP Parameter values	IAM: 3,1 kHz audio				
	CPG: oBCi In-band info or a	n appropriate pattern is now	available		
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: supported				
	183 Session Progress				
	P-Early-Media: < authorization of early media>				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	INVITE (IAM)		
	183 Session Progress	÷ +	183 Session Progress (CPG)		
	PRACK -	<b>→</b>	PRACK		
	200 OK (PRACK)	<b>←</b>	200 OK (PRACK)		
	, ,	Apply post test routine	, ,		

TP number	TP_104_022	Reference	[1], clause 7.2.1 [2], clauses 7.2.3.1.4A,
T00 (			table, 7.2.3.1.4A.1
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of optional Backward value 8 sent in a 183	call indicator into PSTN XML F	ProgressIndicator element
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated ACM and the optional Backward call indicator In-band information indicator in-band information or an appropriate pattern is now available, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 8		
ISUP Parameter values	ACM: BCi ISDN access indicator = Terminating access ISDN BCi Called party status indicator = no indication oBCI In-band information indicator in-band information or an appropriate pattern is now available		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN     ProgressIndicator      ProgressOctet4     ProgressDescriptior</th <th></th> <th></th>		
Comments			
Message flows	SIP NNI INVITE → 183 Session Progress ←	=	SIP-I INVITE (IAM) 183 Session Progress (ACM)
		Apply post test routine	

TP number	TP_104_023	Reference	[1], clause 7.2.1		
			[2], clauses 7.2.3.1.4A,		
			table, 7.2.3.1.4A.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call indicing in a 183	ator into PSTN XML Progress	Indicator element value 1 sent		
Test Purpose	Ensure that on receipt of a 183	Session Progress with encap	sulated ACM and the		
	Backward call indicator ISDN L				
	way, a 183 Session Progress is				
	the value is set to No 1 (Call is	not end-to-end ISDN: "further	progress information may be		
	available in-band")				
ISUP Parameter values	ACM: BCI ISDN User Part ind		sed all the way		
	BCi Called party status	indicator = no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>000001<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	183 Session Progress ←	<b>←</b>	183 Session Progress (ACM)		
		Apply post test routine			

TP number	TP_104_024	Reference	[1], clause 7.2.1	
			[2], clauses 7.2.3.1.4A,	
			table, 7.2.3.1.4A.1	
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/		
Selection criteria	PICS 6.2.1/5	-		
Test Purpose name	Mapping of Backward call indi in a 183	cator into PSTN XML Progress	sIndicator element value 2 sent	
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)			
ISUP Parameter values	ACM: BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access non-ISDN BCi Called party status indicator = no indication			
SIP Parameter values	183 Session Progress xml version="1.0" encoding PSTN ProgressIndicator ProgressOctet4 ProgressDescriptio</th <th></th> <th></th>			
Comments	-			
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	<b>→</b>	INVITE (IAM)	
	100 Trying	-		
	183 Session Progress	·	183 Session Progress (ACM)	
		Apply post test routine		

TP number	TP_104_025	Reference	[1], clause 7.2.1		
			[2], clauses 7.2.3.1.4A,		
			table, 7.2.3.1.4A.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call indic	ator into PSTN XML Progress	Indicator element value 7 sent		
	in a 183				
Test Purpose	Ensure that on receipt of a 183	Session Progress with encaps	sulated ACM and the		
	Backward call indicator ISDN L	Jser Part indicator is set to ISD	N User Part used all the way		
	and ISDN access indicator = To	erminating access ISDN, a 183	3 Session Progress is sent. A		
	PSTN XML ProgressIndicator e	element is present the value is	set to No 7		
ISUP Parameter values	ACM: BCI ISDN User Part ind	icator = ISDN User Part used a	all the way		
		tor = Terminating access ISDN	N .		
	BCi Called party status	indicator = no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	·				
	ProgressOctet4				
	ProgressDescription	>0000111<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←				
	183 Session Progress ←	+	183 Session Progress (ACM)		
		Apply post test routine			

TP number	TP_104_026	Reference	[1], clause 7.2.1		
iii iidiiibei	11 _104_020	Kelefelice	[2], clauses 7.2.3.1.4A,		
			table, 7.2.3.1.4A.2		
TSS reference	SIP NNI - SIP-I/Basic call/S	Sending of 18x/	[table, 1.2.3.1.4A.2		
Selection criteria	PICS 6.2.1/5	7011a111g_01_107/			
Test Purpose name		ard call indicator into PSTN	N XML ProgressIndicator element		
rest i di pose name	value 8 sent in a 183	ard call indicator into 1 311	A AMIL 1 Togressificator element		
Test Purpose			n encapsulated CPG and the optional		
	Backward call indicator In-b	oand information indicator i	n-band information or an appropriate		
	pattern is now available, a	183 Session Progress is se	ent. A PSTN XML ProgressIndicator		
	element is present the valu	e is set to No 8	-		
ISUP Parameter values	CPG: Event indicator = Pro	ogress			
	oBCI In-band infor	mation indicator in-band in	formation or an appropriate pattern		
	is now availa	ble			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encod</th <th>ing="utf-8"?&gt;</th> <th></th>	ing="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescrip	tion> <b>0001000</b> <			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
			<ul> <li>183 Session Progress</li> </ul>		
			(ACM no indication)		
	183 Session Progress	<b>←</b>	← 183 Session Progress		
			(CPG)		
		Apply post test rou	• •		

TP number	TP_104_027	Reference	[1], clause 7.2.1 [2], clauses 7.2.3.1.4A, table, 7.2.3.1.4A.2		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of 18x/	table, 1.2.3.1.4A.2		
Selection criteria	PICS 6.2.1/5	<u>g_oi_10</u> ,0			
Test Purpose name	Mapping of Backward call indicin a 183	ator into PSTN XML ProgressI	ndicator element value 1 sent		
Test Purpose	Ensure that on receipt of 183 Session Progress with an encapsulated a CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")				
ISUP Parameter values	CPG: Event indicator = Progress BCI ISDN User Part indicator = ISDN User Part not used all the way				
SIP Parameter values	183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<				
Comments					
Message flows	SIP NNI INVITE →  183 Session Progress ←	MGCF  →  ←	SIP-I INVITE(IAM) 183 Session Progress (ACM) 183 Session Progress (CPG)		
		Apply post test routine	,		

TP number	TP_104_028	Reference	[1], clause 7.2.1 [2], clauses 7.2.3.1.4A,	
			table, 7.2.3.1.4A.2	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indicin a 183	cator into PSTN XML Progress	Indicator element value 2 sent	
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)			
ISUP Parameter values	CPG: Event indicator = Progress or in-band information or an appropriate pattern is now available  BCI ISDN User Part indicator = ISDN User Part used all the way  BCi ISDN access indicator = Terminating access non-ISDN			
SIP Parameter values	183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	=	INVITE (IAM)	
		<b>+</b>	183 Session Progress (ACM)	
	183 Session Progress ←	<b>←</b>	183 Session Progress (CPG)	
	Apply post test routine			

TP number	TP_104_029	Reference	[1], clause 7.2.1 [2], clauses 7.2.3.1.4A,		
			table, 7.2.3.1.4A.2		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	in a 183		Indicator element value 7 sent		
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 183 Session Progress is sent. A				
ISUP Parameter values	PSTN XML ProgressIndicator (CPG: Event indicator = Progre				
150P Parameter values		ess or in-band information or a available	in appropriate pattern is		
		licator = ISDN User Part used	all the way		
		ator = Terminating access ISDI	,		
SIP Parameter values	183 Session Progress	<b>3</b>			
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n>0000111<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<del>-</del>	(INVITE) IAM		
		<b>←</b>	183 Session Progress (ACM)		
	183 Session Progress ←	<b>+</b>	183 Session Progress (CPG)		
		Apply post test routine			

TP number	TP_104_033	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4,		
			table 7a.0f		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/	•		
Selection criteria	PICS 6.2.1/5	•			
Test Purpose name	Mapping of Progress Indicator received in a ACM/CPG into 183				
Test Purpose	Ensure that on receipt of a 183 Message with encapsulated ACM called party status no				
	indication or CPGevent indicat				
	available containing a ATP Pro	ogress Indicator, a 183 Session	Progress is sent. The		
	Progress Indicator IE containe				
	PSTN XML element in the 183	Session Progress as indicated	d in table 6.1.1.4-2.		
	<ul> <li>Progress Indicator receive</li> </ul>	ed in an ACM called party statu	s user no indication a 183		
		in the PSTN XML element con	tains the ProgressIndicator		
	value PI_value		-		
	<ul> <li>Progress Indicator receive</li> </ul>	ed in an CPG 183 Session Pro	gress is sent in the PSTN XML		
		gressIndicator value PI_value			
ISUP Parameter values		ed party status = no indication			
		tains a Progress Indicator IE			
		ed party status = no indication			
		and info available'			
	CPG: ATP contains a Progres	ss Indicator IE			
SIP Parameter values	183 Session Progress:	W . 4			
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
		ProgressIndicator			
	ProgressOctet3				
	CodingStandard>00< Location>yyyy<				
	ProgressOctet4				
	ProgressOctet4 ProgressDescription>PI_value<				
Comments	1 109.0002.000.101.01	- I_valao			
Message flows	SIP NII	MGCF	SIP-I		
Incocugo none	INVITE -		INVITE (IAM)		
		-			
	CASE A				
	183 Session Progress €	·	183 Session Progress		
	Too ecosion riogross	•	(ACM no indication) ATP		
			contains a Progress		
			Indicator IE		
	CASE B				
		<b>←</b>	183 Session Progress		
			(ACM – no indication)		
	183 Session Progress ←	·	183 Session Progress		
			(CPG – PROGRĚSS)		
			ATP contains a Progress		
			Indicator IE		
		Apply post test routine			

Table 6.1.1.4-2: Mapping of Progress Indicator information element to PSTN XML ProgressIndicator

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'000001'
PI_VA_2	Destination address is non-ISDN	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PLVA 6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_104_034	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4,		
			table 7a.0f		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of High layer compat	bility received in a ACM/CPG	nto 183		
Test Purpose	Ensure that on receipt of a 183				
	status no indication or CPG ev				
	now available, a 183 Session				
	the ACM ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in				
	the 183 Session Progress as i				
		ceived in an ACM called party			
		n the PSTN XML element con	tains the		
	HighLayerCompatibility va				
		ceived in an CPG Event indica			
		v available 183 Session Progre LayerCompatibility value HLC			
ISUP Parameter values		ed party status = no indication	_value		
130F Farameter values		ed party status = no indication			
		and info available			
	CPG: ATP contains a High la				
SIP Parameter values	183 Session Progress:	,			
	<pre><?xml version="1.0" encoding:</pre></pre>	="utf-8"?>			
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod	d>01<			
	HLOctet4				
0	HighLayerCharacte	ristics>HLC_value<			
Comments	OID MINI	моог	OID I		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	· -	INVITE (IAM)		
	CASE A				
			400 Cassian Brancas		
	183 Session Progress	·	183 Session Progress (ACM)		
			(ACIVI)		
	CASE B				
	CASE B	<b>←</b>	183 Session Progress		
			(ACM – no indication))		
	183 Session Progress   €	• •	183 Session Progress		
	Togrood T	•	(CPG - ATP contains a High		
			layer compatibility IE)		
		Apply post test routine			
L					

Table 6.1.1.4-3: Mapping of High layer compatibility information element to PSTN XML HighLayerCharacteristic

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or interworking units	'0110011'
HLC_VA_7	Telex service	'0110101'
HLC_VA_8	FTAM application	'1000010'
HLC_VA_9	Videotelephony	'1100000'

TP number	TP_104_035	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4,	
			table 7a.0f	
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name		tibility received in a 183 Sessio	n Progress with encapsulated	
	ACM/CPG into 183 Session	Progress		
Test Purpose		83 Session Progress with encap		
		event indicator in-band informat		
	now available, a 183 Session Progress is sent. The Low layer compatibility IE contained in the ACM ATP parameter is mapped into the LowLayerCompatibility PSTN XML element in			
			patibility PSTN XML element in	
	the 183 Session Progress as			
		eceived in an ACM called party		
		t in the PSTN XML element cor	itains the	
	LowLayerCompatibility \		tonin bondintonoction on a	
	Low layer compatibility r	eceived in an CPG Event indica	ator in-band information or an	
		ow available 183 Session Progre		
ISUP Parameter values		wLayerCompatibility value ITC_ lled party status = no indication	value	
130P Parameter values		lled party status = no indication		
		nband info available'		
	CPG: ATP contains a Low I			
SIP Parameter values	183 Session Progress:	ayer companionity in		
on rarameter varies	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN	g= a 5		
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>	00<		
	InformationTransferCapability>ITC_value<			
	LLOctet4>			
	TransferMode>00			
	InformationTransf	erRate>10000<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b> →	INVITE (IAM)	
	CASE A			
	183 Session Progress	<b>+ +</b>	183 Session Progress (ACM)	
	CASE B			
		+	183 Session Progress (ACM)	
	183 Session Progress	<b>+ +</b>	183 Session Progress (CPG –Alerting)	
		Apply post test routine	·	

Table 6.1.1.4-4: Mapping of Low Layer Compatibility to PSTN XML LowLayerCompatibility

ITC_value	LLC Information transfer capability	XML LLC InformationTransferCapability
ITC_VA_1	Speech	'00000'
ITC_VA_2	3,1 kHz audio	'10000'
ITC_VA_3	Unrestricted digital info	'01001'
ITC_VA_3	7 kHz audio	'10001'

TP number	TP_104_036	Reference	[1], clause 7.2.1		
Ti Tidilibei	11 _104_030	Kelefellee	[2], clause 7.2.1		
			table 7a.0f		
TSS reference	CID NINI CID I/Desis cell/Ca	anding of 10v/	table / a.ul		
Selection criteria	SIP NNI - SIP-I/Basic call/Sending_of_18x/ PICS 6.2.1/5				
	I .				
Test Purpose name	Mapping of Bearer Capability received in a 183 Session Progress with encapsulated ACM/CPG				
Test Purpose		ACM called party status no ind			
		propriate pattern is now availab			
		IE contained in the ACM ATP p			
		BearerCapability PSTN XML element in the 183 Session Progress as indicated in			
	table 6.1.1.4-5.				
			us subscriber free 183 Session		
	Progress is sent in the F ITC_value	PSTN XML element contains th	e BearerCapability value		
		red in an CPG Event indicator in	n-hand information or an		
		ow available 183 Session Progr			
		earerCapability value ITC_value			
ISUP Parameter values		lled party status = no indication			
		illed party status = no indication			
		nband info available'	•		
	CPG: ATP contains a Bear				
SIP Parameter values	183 Session Progress:				
	xml version="1.0" encoding</th <th>ia="utf-8"?&gt;</th> <th></th>	ia="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
	BCoctet4				
	TransferMode>00	<			
	InformationTransferRate>10000<				
	BCoctet5>				
	Layer1Identification	on>01<			
	UserInfoLayer1Pr	otocol>00011<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b> →	INVITE (IAM)		
	CASE A				
	183 Session Progress	<b>+ +</b>			
	(ACM)				
	040F B				
	CASE B	_	100.0		
		←			
		_	(ACM)		
	183 Session Progress	<b>← ←</b>	183 Session Progress (CPG)		
		Apply post test routine	(3) 3)		
	Apply post test routine				

Table 6.1.1.4-5: Mapping of Bearer capability to PSTN XML BearerCapability

ITC_value	BC Information transfer capability	XML InformationTransferCapability
ITC_VA_1	Speech	'00000'
ITC_VA_2	3,1 kHz audio	'10000'
ITC_VA_3	Unrestricted digital inf. W/tone/ann	'10001'
ITC VA 4	Unrestricted digital information	'01000'

TP number	TP_104_037	Reference	[1	], clause 7.2.1	
			[2	?], clause 7.2.3.1.4B	
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/			
Selection criteria					
Test Purpose name	ACM containing CDIV informa	tion, a 181 is sent			
Test Purpose	Ensure that on receipt of a 181	I Call Is Being Forwarded wi	th end	capsulated ACM containing	
	a Redirection number, Call div		eric no	otification set to 'Call is	
	diverted', a 181 Call Is Being F	Forwarded is sent			
ISUP Parameter values	ACM: BCi Called party status	= no indication			
	Redirection number	Redirection number			
	Call diversion information				
	Generic notification = 'C	Call is diverted'			
SIP Parameter values	181 Call Is Being Forwarded				
Comments					
Message flows	SIP NNI	MGCF		SIP-I	
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)	
	100 Trying	<b>←</b>			
	181 Call Is Being Forwarded	<b>←</b>	<b>←</b>	181 Call Is Being	
				Forwarded (ACM)	
		Apply post test routine			

TP number	TP_104_038	Reference	[1	], clauses 7.2.1, 7.2.3.1.4B
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/		
Selection criteria	PICS 6.2.1/9			
Test Purpose name		ACM containing CDIV information and oBCi inband info available, a 181 Call Is Being Forwarded is sent a P-Early-Media present		
Test Purpose	Ensure that on receipt of a 181 Call Is Being Forwarded with encapsulated ACM containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to In-band info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media			
ISUP Parameter values	ACM: BCi Called party status	= no indication		
	Redirection number Call diversion information Generic notification = 'Call is diverted'			
SIP Parameter values	181 Call Is Being Forwarded			
	P-Early-Media: <indicating authorization="" early="" media="" of=""></indicating>			
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)
	100 Trying ←			
	181 Call Is Being Forwarded ← 181 Call Is Being			
	Forwarded (ACM)			
		Apply post test routine	•	

TP number	TP_104_040	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4B		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/			
Selection criteria					
Test Purpose name	CPG containing CDIV informa	tion, a 181 is sent			
Test Purpose			with encapsulated CPG Event		
	Indicator set to Progress conta	aining a Redirection number	er, Call diversion information and		
	Generic notification set to 'Cal				
ISUP Parameter values	CPG: Event Indicator set to P	rogress	-		
	Redirection number	_			
	Call diversion information				
	Generic notification = 'Call is diverted'				
	oBCI In-band information indicator in-band information or an appropriate pattern				
	is now available				
SIP Parameter values	181 Call Is Being Forwarded				
Comments	<u> </u>				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
	180/183	<b>←</b>	← 180/183 (ACM)		
	181 Call Is Being Forwarded	<b>←</b>	← 181 Call Is Being		
			Forwarded (CPG)		
	Apply post test routine				

TP number	TP 104 041	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4B		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/9				
Test Purpose name	ACM containing CDIV informa P-Early-Media present	tion and oBCi inband info ava	ilable, a 181 is sent a		
Test Purpose	Ensure that on receipt of a 181 Call Is Being Forwarded with encapsulated CPG Event Indicator set to Progress containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to Inband info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media				
ISUP Parameter values	CPG: Event Indicator set to Progress Redirection number Call diversion information Generic notification = 'Call is diverted'				
SIP Parameter values	INVITE: Supported: 100rel P-Early-Media: < authorization of early media> 181 Call Is Being Forwarded P-Early-Media: <indicating authorization="" early="" media="" of=""></indicating>				
Comments	·	,			
Message flows	SIP NNI INVITE 180/183 181 Call Is Being Forwarded	MGCF → ← Apply post test routine	SIP-I  → INVITE (IAM)  ← 180/183 (ACM)  ← 181 Call Is Being Forwarded (CPG)		

## 6.1.1.5 Sending of the 200 OK (INVITE)

TP number	TP_105_001	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.5
TSS reference	SIP NNI - SIP-I/Basic of	call/Sending_of_200_OK/	•
Selection criteria		-	
Test Purpose name	A 200 OK with encaps	ulated ANM is received a 20	00 OK is sent
Test Purpose	Ensure that on receipt	of a 200 OK (ANM) the SU	sends a 200 OK INVITE
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	← 100 Trying
	180 Ringing	<b>←</b>	← 180 Ringing (ACM)
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) (ANM)
	ACK	<b>→</b>	→ ACK
		Apply post test	routine

TP number	TP_105_002	Refere	ence	[1], clause 7.2.1
				[2], clause 7.2.3.1.5
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_	_200_OK/	
Selection criteria				
Test Purpose name	A 200 OK with encapsu	ulated CON is re	eceived a 200 OK is	s sent
Test Purpose	Ensure that on receipt	of a 200 OK (Co	ON) the SUT sends	a 200 OK (INVITE)
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP NNI		MGCF	SIP-I
	INVITE	<b>→</b>	•	→ INVITE (IAM)
	100 Trying	<b>←</b>	•	← 100 Trying
	200 OK (INVITE)	<b>←</b>	•	€ 200 OK (INVITE) (CON)
	ACK `	<b>→</b>	•	→ ACK
		Appl	y post test routine	•

TP number	TP_105_003	Reference		[1], clause 7.2.1		
				[2], clauses 7.2.3.1.5,		
				table, 7.2.3.1.5.1		
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_200_OK	/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Progress indicator rece	eived in 200 OK (ANM) w	ith encapsula	ted ANM/CON is mapped into		
	PSTN XML ProgressIn		-			
Test Purpose	Ensure that on receipt	of a 200 OK (INVITE) with	th encapsulat	ed ANM/CON and an ATP		
				00 OK (INVITE) is sent. the		
	PSTN XML ProgressIn	dicator value is set as in	dicated in tab	le 6.1.1.5-1		
ISUP Parameter values	ANM/CON: ATP con	tains a Progress Indicato	or IE value <b>PI</b>	_value		
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" en</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStand					
	Location <yy< th=""><th></th><th></th><th></th></yy<>					
	J	ProgressOctet4				
	ProgressDes	scription> <b>PI_value</b> <				
Comments						
Message flows	SIP NNI	MGCF		SIP-I		
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)		
	CASE A					
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM - free)		
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE) (ANM)		
	ACK → ACK					
	CASE B					
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE) CON		
	ACK	<b>→</b>	<b>→</b>	ACK		
		Apply post to	est routine			

Table 6.1.1.5-1: Mapping of Progress Indicator information element to PSTN XML ProgressIndicator

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'0000001'
PI_VA_2	Destination address is non-ISDN	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PLVA 6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_105_004	Reference	[1], clause 7.2.1				
			[2], clauses 7.2.3.1.5,				
			table, 7.2.3.1.5.1				
TSS reference	SIP NNI - SIP-I/Basic o	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name			VITE)with encapsulated ANM/CON is				
		L HighLayerCompatibilit					
Test Purpose			th encapsulated ANM/CON and an ATP				
			alue HLC_value, a 200 OK INVITE is sent.				
			set as indicated in table 6.1.1.5-2				
ISUP Parameter values		tains a High layer compa	atibility IE value <b>HLC_value</b>				
SIP Parameter values	200 OK INVITE:						
	xml version="1.0" er</th <th>coding="utf-8"?&gt;</th> <th></th>	coding="utf-8"?>					
	PSTN						
	HighLayerCompatil	oility					
	HLOctet3						
	CodingStand						
	Interpretatio						
		Method>01<					
	HLOctet4						
Commonto	HighLayerC	haracteristics> <b>HLC_val</b> u	ie<				
Comments	CID NINII	MOOF	OID I				
Message flows	SIP NNI	MGCF					
	INVITE	<b>→</b>	→ INVITE (IAM)				
	CASE A						
		•	4.00 Diamin (A.O.A.)				
	180 Ringing	<b>←</b>	← 180 Ringing (ACM)				
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) (ANM)				
	ACK	÷	→ ACK				
	, (3.)	•	2 /1011				
	CASE B						
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) CON				
	ACK	· →	→ ACK				
	7.0.0	Apply post te					
	L	Apply post to					

Table 6.1.1.5-2: Mapping of High layer compatibility information element to PSTN XML HighLayerCharacteristic

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or	'0110011'
	interworking units	
HLC_VA_7	Telex service	'0110101'
HLC_VA_8	FTAM application	'1000010'
HLC_VA_9	Videotelephony	'1100000'

TP number	TP_105_005	Reference	[1], clause 7.2.1				
	1		[2], clauses 7.2.3.1.5,				
			table, 7.2.3.1.5.1				
TSS reference	SIP NNI - SIP-I/Basic c	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Low layer compatibility	received in 200 OK (ANN	) with encapsulated ANM/CON is mapped				
	into PSTN XML LowLa						
Test Purpose			encapsulated ANM/CON and an ATP				
			ie ITC_value, a 200 OK INVITE is sent.				
			et as indicated in table 6.1.1.5-3				
ISUP Parameter values		tains a Low layer compati	oility IE value ITC_value				
SIP Parameter values	200 OK INVITE:						
	xml version="1.0" en</th <th>coding="utf-8"?&gt;</th> <th></th>	coding="utf-8"?>					
	PSTN	****					
	LowLayerCompatib	ility>					
	LLOctet3>	dand. OO					
	CodingStand		luo .				
	LLOctet4>	ransferCapability>ITC_va	ilue<				
	TransferMod	1e>00>					
		ransferRate>10000<					
	LLOctet5>						
	Layer1Identification>01 </th						
	UserInfoLayer1Protocol> <b>ITC_value</b> </th						
Comments			is absent, the entire 'LLOctet5' element is				
	absent	Ž					
ACKMessage flows	SIP NNI	MGCF	SIP-I				
	INVITE	<b>→</b>	→ INVITE (IAM)				
	CASE A						
	180 Ringing	180 Ringing ← 180 Ringing (ACM free)					
	200 OK (INVITE) ← 200 OK (INVITE) ANM						
	ACK	ACK → ACK					
	CASE B	_					
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) (CON)				
	ACK	<b>→</b>	→ ACK				
		Apply post tes	t routine				

Table 6.1.1.5-3: Mapping of Low Layer Compatibility to PSTN XML LowLayerCompatibility

ITC_value	LLC Information transfer	XML LLC	XML UserInfoLayer1Protocol
	capability	InformationTransferCapability	
ITC_VA_1	Speech	'00000'	'00011'
ITC_VA_2	3,1 kHz audio	'10000'	'00011'
ITC_VA_3	Unrestricted digital info	'01000'	absent
ITC_VA_4	7 kHz audio	'10001'	'00110'

TP number	TP_105_006	Refere	nce	[1], clause 7.2.1			
				[2], clauses 7.2.3.1.5,			
				table, 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic ca	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Bearer Capability receiv	ed in 200 OK	INVITE) with encapsu	lated ANM/CON is mapped			
	into PSTN XML Bearer0	Capability					
Test Purpose	Ensure that on receipt o	of a 200 OK (IN	VITE) with encapsulat	ed ANM/CON and an ATP			
				00 OK INVITE is sent. the			
	PSTN XML BearerCapa	ability value is s	et as indicated in table	e 6.1.1.5-4			
ISUP Parameter values	ANM/CON: ATP conta	ains a Bearer (	Capability IE value ITC	_value			
SIP Parameter values	200 OK INVITE:						
	xml version="1.0" end</th <th>coding="utf-8"?</th> <th>&gt;</th> <th></th>	coding="utf-8"?	>				
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStand						
		ransferCapabil	ty>ITC_value<				
	BCoctet4						
	TransferMode						
		ransferRate>10	0000<				
	BCoctet5>						
	Layer1Identif						
	UserInfoLaye	r1Protocol>IT	C_value<				
Comments							
Message flows	SIP NNI	_	MGCF	SIP-I			
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)			
	CASE A						
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM- free)			
	200 OK (INVITE) ← 200 OK (INVITE) ANM						
	ACK →						
	CASE B						
	200 OK (INVITE)	<b>←</b>	<del>(</del>	200 OK (INVITE) (CON)			
	ACK	<b>→</b>		ACK			
		Appl	y post test routine				

Table 6.1.1.5-4: Mapping of Bearer capability to PSTN XML BearerCapability

ITC_value	BC Information transfer XML		XML UserInfoLayer1Protocol
	capability	InformationTransferCapability	
ITC_VA_1	Speech	'00000'	'00011'
ITC_VA_2	3,1 kHz audio	'10000'	'00011'
ITC_VA_3	Unrestricted digital inf. W/tone/ann	'10001'	'00110'

TP number	TP_105_007	Reference		[1], clause 7.2.1 [2], clauses 7.2.3.1.5,
				table, 7.2.3.1.5.2
TSS reference	SIP NNI - SIP-I/Basic of	call/Sending_of_200_OK/		,
Selection criteria	PICS 6.2.1/5			
Test Purpose name		r mapped into PSTN XML		
Test Purpose		of a 200 OK (INVITE) with		
				I the way, a 200 OK INVITE is
				Call is not end-to-end ISDN:
		ation may be available in		
ISUP Parameter values		N User Part indicator = IS	DN User Pai	rt not used all the way
SIP Parameter values	200 OK INVITE			
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>		
	PSTN			
	ProgressIndicator			
	 Dan anno a contact			
	ProgressOctet4			
Comments	FloglessDe	scription>000001<		
Message flows	SIP NNI	MGCF		SIP-I
linessage nows	INVITE	→	<b>→</b>	INVITE (IAM)
	IIIVII E	•	,	INVITE (IAWI)
	CASE A			
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM- free)
	180 Kinging	•	`	100 Kinging (ACIVI- ITEE)
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE) ANM
	ACK	<b>→</b>	<b>→</b>	ACK
	ACK	7	7	AON
	CASE B			
	200 OK (INVITE)	<b>←</b>	_	200 OK (INVITE) (CON)
	ACK	<b>→</b>	<b>→</b>	ACK
	AOR	Apply post te	_	AON
		Apply post te	Ji i Outille	

TP number	TP_105_008	Reference		[1], clause 7.2.1
I F Hulliber	1F_103_008	Keierence		[2], clauses 7.2.3.1.5,
TCC vofevence	OLD NINH OLD I/D: -	- 11/0 1: 1 000 01/		table, 7.2.3.1.5.2
TSS reference		call/Sending_of_200_OK/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name		mapped into PSTN XML		
Test Purpose		of a 200 OK (INVITE) with		
		is set to ISDN User Part		
			the PSTN	XML ProgressIndicator value is
	set to 2 (Destination ac			
ISUP Parameter values		N User Part indicator = IS		
		cess indicator = Terminat	ing access n	on-ISDN
SIP Parameter values	200 OK INVITE			
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
-	ProgressDe	scription> <b>0000010</b> <		
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)
	CASE A			
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM – free)
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE) (ANM)
	ACK ` ´	<b>→</b>	<b>→</b>	ACK ` ´`
	CASE B			
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE) (CON)
	ACK	<del>)</del>	<b>→</b>	ACK
	1.5.0		-	,
	Apply post test routine			

TP number	TP_105_009	Reference	[1], clause 7.2.1
			[2], clauses 7.2.3.1.5,
			table, 7.2.3.1.5.2
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Backward call indicator mapped into PSTN XML ProgressIndicator value 7		
Test Purpose	Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the backward		
	call indicator is set to ISDN User Part used all the way and Terminating access ISDN, a		
	200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 7		
ISUP Parameter values	ANM/CON: BCi ISDN User Part indicator = ISDN User Part used all the way		
	ISDN access indicator = Terminating access ISDN		
SIP Parameter values	200 OK INVITE		
	<pre><?xml version="1.0" encoding="utf-8"?></pre>		
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
Comments	ProgressDescription>0000111<		
	SIP NNI	МОСТ	SIP-I
Message flows		MGCF	
	INVITE	·	INVITE (IAM)
	CASE A		
	CASE A		400 B: : (40M)
	180 Ringing ←	•	180 Ringing (ACM)
	000 01/ (INI) (ITE)		000 01/ (INI) (ITE) (ANIM)
	200 OK (INVITE)		200 OK (INVITE) (ANM)
	ACK -	7	ACK
	CASE B		
			200 OK (INI)/ITE) (CON)
	200 OK (INVITE)		200 OK (INVITE) (CON)
	ACK -	=	ACK
	Apply post test routine		

TP number	TP_105_010	Reference	[1], clause 7.2.1			
Ti Tidilisoi	11 _100_010	Ttoronous	[2], clauses 7.2.3.1.5,			
			table, 7.2.3.1.5.2			
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding of 200 OK/	10010, 7.2.0.1.0.2			
Selection criteria	PICS 6.2.1/5	ag_o200_0				
Test Purpose name	Optional backward call indicate	or mapped into PSTN XML P	rogressIndicator value 8			
Test Purpose			ed ANM/CON and the optional			
	backward call indicator is to in					
			ogressIndicator value is set to 8			
	(In-band information or approp					
ISUP Parameter values		ard call indicator In-band info				
	in-band informat	tion or an appropriate pattern	is now available			
SIP Parameter values	200 OK INVITE					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
		ProgressOctet4				
_	ProgressDescription	n> <b>0001000</b> <				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE ->	·	INVITE (IAM)			
	CASE A	_				
	180 Ringing ←	·	180 Ringing (ACM)			
	222 214 (1) 11 (175)		000 014 (101) (175) (401)			
	200 OK (INVITE)					
	ACK -	· -	ACK			
	040F B					
	CASE B	-	000 014 (INI) (ITE) 0001			
	200 OK (INVITE)		200 OK (INVITE) CON			
	ACK -	<del>-</del>	ACK			
		Apply post test routine				

TP number	TP_105_011	Refe	erence	[1], clause 7.2.1			
				[2], clauses 7.2.3.1.5,			
				table, 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic	call/Sending_	of_200_OK/	·			
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Receipt of TMU speec	h in 200 OK (	ANM) with encapsul	ated ANM/CON, no BC present in			
	ATP						
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to <b>speech</b> in the 200						
	OK INVITE with encapsulated ANM/CON, a 200 OK INVITE is sent and a PSTN XML						
		ent is present	the InformationTrar	nsferCapability is set to <b>Speech</b>			
ISUP Parameter values		IAM:					
	TMR = second Informa						
	TMR prime = first Infor		erCapability				
	USI = first BearerCapa		<b>.</b> .				
	USI prime = second Be						
SIP Parameter values	ANM/CON: Transmi INVITE: PSTN XML		ruseu = speech				
SIF Farailleter values	<pre><?xml version="1.0" er</pre></pre>		2"2				
	PSTN	ricourig= uti-	) ! >				
	BearerCapability						
	BCoctet3						
	CodingStan	dard>00<					
			bilitv> <b>00000</b> <				
	InformationTransferCapability>00000<						
	BearerCapability						
	BCoctet3						
	CodingStandard>00<						
	Information <sup>-</sup>	TransferCapa	bility> <b>10001</b> <				
	200 OK INVITE		2110				
	xml version="1.0" er</th <th>ncoding="utf-</th> <th>3"'?&gt;</th> <th></th>	ncoding="utf-	3"'?>				
	PSTN BaararCanability						
	BearerCapability BCoctet3						
	CodingStan	dard>00>					
			bility>00000<				
		тапогого ара	bility 200000				
Comments							
Message flows	SIP NNI		MGCF	SIP-I			
	INVITE	<b>→</b>		→ INVITE (IAM)			
				,			
	CASE A						
	180 Ringing	<b>←</b>		← 180 Ringing (ACM – free)			
	200 OK (INVITE)	<b>←</b>		← 200 OK (INVITE) (ANM)			
	ACK	<b>→</b>		,			
	CASE B						
	200 OK (INVITE)	<b>←</b>		← 200 OK (CON)			
	ACK	<b>→</b>		→ ACK			
		Ap	ply post test routi	ne			

TP number	TP_105_012	Refe	rence	1	1], clause 7.2.1		
Transo.	11 _100_012	i toio	101100		2], clauses 7.2.3.1.5,		
					able, 7.2.3.1.5.1		
TSS reference	SIP NNI - SIP-I/Basic o	call/Sending of	of 200 OK/				
Selection criteria	PICS 6.2.1/5	<u></u>					
Test Purpose name		Receipt of TMU 3,1 kHz audio in200 OK (ANM) with encapsulated ANM/CON, no BC					
	present in ATP						
Test Purpose		Ensure that on receipt of a Transmission medium used parameter set to <b>3,1 kHz audio</b> in the 200 OK INVITE with encapsulated ANM/CON, a 200 OK INVITE is sent and a PSTN					
•							
	XML BearerCapability	XML BearerCapability element is present the InformationTransferCapability is set to					
	3,1 kHz audio						
ISUP Parameter values	IAM:						
	TMR = second Informa	ationTransferC	Capability				
	TMR prime = first Infor		erCapability				
	USI = first BearerCapa	bility					
	USI prime = second Be	earerCapabilit	у				
	ANM/CON: Transmis		used = 3,1 kHz	z audio			
SIP Parameter values	INVITE: PSTN XML						
	xml version="1.0" er</th <th>ncoding="utf-8</th> <th>5"?&gt;</th> <th></th> <th></th>	ncoding="utf-8	5"?>				
	PSTN Bassas Canability						
	BearerCapability						
	BCoctet3 CodingStand	dards 00 a					
			oility~10000~				
	InformationTransferCapability>10000<						
	BearerCapability						
	BCoctet3						
	CodingStandard>00<						
		FransferCapal	oilitv>10001<				
			,				
	200 OK INVITE						
	xml version="1.0" er</th <th>ncoding="utf-8</th> <th>5"?&gt;</th> <th></th> <th></th>	ncoding="utf-8	5"?>				
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStandard>00< InformationTransferCapability>10000<						
	Information I	l ransterCapat	oility>10000<				
Comments	•••						
Message flows	SIP NNI		MGCF		SIP-I		
Wessage nows	INVITE	<b>→</b>	WIGGI	<b>→</b>	NVITE (IAM)		
	IIIVII E	7		7 11	NVIIE (IAWI)		
	CASE A						
	180 Ringing	<b>←</b>		<b>←</b> 1	80 Ringing (ACM)		
	100 Kinging	•		• '	oo ranging (Aowi)		
	200 OK (INVITE)	<b>←</b>		<b>←</b> 2	00 OK INVITE (ANM)		
	ACK	À		• 2	O O O O O O O O O O O O O O O O O O O		
	7.01	-					
	CASE B						
	200 OK (INVITE)	<b>←</b>		<b>←</b> 2	00 OK (INVITE) CON		
	ACK	<b>→</b>			ACK		
	AON	=	ply post test re		NOI C		
		Aþ	his host rest it	Juline			

TP number	TP_105_013	Refe	rence	[1], clause 7.2.1		
T00 (	OID MIN OID I/D			[2], clause 7.2.3.1.5		
TSS reference	SIP NNI - SIP-I/Basic	call/Sending_c	of_200_OK/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name				rerCapability sent in 200 OK		
Test Purpose		Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer				
	Capability IE in the 200 OK INVITE with encapsulated ANM/CON, a 200 OK INVITE is sent					
	and a PSTN XML BearerCapability element is present the InformationTransferCapability is set as indicated in table 6.1.1.5-5					
ISUP Parameter values	IAM:	e 6.1.1.5-5				
150P Parameter values		-4: Tu6C	Namahilitu.			
	TMR = second Informa TMR prime = first Informa					
	USI = first BearerCapa		erCapability			
	USI prime = second Be		V			
	ANM/CON: Transmi			rer Capability IF		
SIP Parameter values	200 OK INVITE			er capacimy :=		
	xml version="1.0" er</th <th>ncodina="utf-8</th> <th>5"?&gt;</th> <th></th> <th></th>	ncodina="utf-8	5"?>			
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
	···					
Comments						
Message flows	SIP NNI	_	MGCF	SIP-I		
	INVITE	<b>→</b>		→ INVITE (IAM)		
	CASE A	-		f 400 D: : (401)		
	180 Ringing	<b>←</b>		← 180 Ringing (ACM)		
	000 01( (INI) (ITE)	-		7 000 OK (IND/ITE) (ANDA)		
	200 OK (INVITE)	<del>(</del>		← 200 OK (INVITE) (ANM)	)	
	ACK →					
	CASE B					
	200 OK (INVITE)	<b>←</b>		← CON		
	ACK	<b>→</b>		CON		
	Apply post test routine					
		Ар	pry post test ro	uune		

Table 6.1.1.5-5: Mapping of TMU and Bearer capability IE to PSTN XML BearerCapability

ITC_value	← 180 Ringing or 183 Session Progress		←ACM/CPG
ITC_value_VA_01	PSTN XML BearerCapability = "Speech"	TMU	"Speech"
		ATP	BC "speech"
ITC_value_VA_02	PSTN XML BearerCapability = "Speech"	TMU	"3,1 kHz audio"
		ATP	BC "speech"
ITC_value_VA_03	PSTN XML BearerCapability = "3,1 kHz audio"	TMU	"Speech"
	, ,	ATP	BC "3,1 kHz audio"
ITC_value_VA_04	PSTN XML BearerCapability = "3,1 kHz audio"	TMU	"3,1 kHz audio"
	·	ATP	BC "3,1 kHz audio"

## 6.1.1.6 Sending of the Release message (REL)

TP number	TP_106_001	Reference	[1], clause 7.2.2				
			[2], clause 7.2.3.1.7				
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_REL/					
Selection criteria							
Test Purpose name	BYE received in confirmed dia REL is sent	logue no Reason header inclu	ided, a BYE with encapsulated				
Test Purpose	present, a BYE with encapsula	Ensure that on receipt of a BYE request in confirmed dialogue and no Reason header is present, a BYE with encapsulated REL message is sent. The cause indicator is set to No. 16 (normal clearing), the location is set to 'network beyond interworking point'					
ISUP Parameter values		REL: Cause indicator Cause Value = 16 (normal clearing)  Location = network beyond interworking point					
SIP Parameter values		•					
Comments							
Message flows	SIP NNI	MGCF	SIP-I				
-	INVITE → 100 Trying ←		INVITE (IAM)				
	180 Ringing		180 Ringing (ACM – free)				
	200 OK (INVITE) ← 200 OK (INVITE) (ANM) →						
	BYE -	<b>→</b>	BYE (REL)				
	200 OK (BYE) ←	+	200 OK (BYE) (RLC)				

TP number	TP_106_002	Reference		[1], clause 7.2.2			
				[2], clause 7.2.3.1.7			
TSS reference	SIP NNI - SIP-I/Basic call	/Sending_of_REL/					
Selection criteria		<u> </u>					
Test Purpose name	BYE received in confirme REL is sent	d dialogue Reason heade	r included	d, a BYE with encapsulated			
Test Purpose	present, a BYE with enca	Ensure that on receipt of a BYE request in confirmed dialogue and a Reason header is present, a BYE with encapsulated REL message is sent. The cause indicator is set to the Reason header cause value, the location is set to 'network beyond interworking point'					
ISUP Parameter values	REL: Cause indicator Ca	ause Value = Cause_valu	ie				
	Loca	ation = network beyond in	terworking	g point			
SIP Parameter values	BYE: Reason: Q.850 [5];	cause = Cause_value		•			
Comments	The Cause_value is a PI	XIT parameter					
Message flows	SIP NNI	MGCF		SIP-I			
_	INVITE 100 Trying	<b>→</b> ←	<b>→</b>	INVITE (IAM)			
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing (ACM – free)			
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)						
	ACK	ACK → ACK					
	BYE	<b>→</b>	<b>→</b>	BYE (REL)			
	200 OK (BYE)	<b>←</b>	<b>←</b>	200 OK (BYE) (RLC)			

TP number	TP_106_003	Reference	[1], clause 7.2.2
			[2], clause 7.2.3.1.7
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_REL/	
Selection criteria			
Test Purpose name	BYE received in early dialogu	e no Reason header included,	a BYE with encapsulated REL
	is sent		
Test Purpose		/E request in early dialogue ar	
			e cause indicator is set to No.
		tion is set to 'network beyond i	nterworking point'
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	e Value = 16 (normal clearing)	
	Locatio	n = network beyond interworkii	ng point
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	<b>→</b>	INVITE (IAM)
	18x	<b>←</b>	18x
			(ACM (no indication or free)
	BYE -	<b>→</b>	BYE (REL)
	200 OK (BYE)	<b>+</b>	200 OK (BYE) RLC
		<b>+</b>	487 Request Terminated
	I	<b>→</b>	ACK

TP number	TP 106 004	Reference	[1], clause 7.2.2			
i i iidiibei	11 _100_004	Kelerence	[2], clause 7.2.3.1.7			
		<u> </u>	[2], clause 7.2.3.1.7			
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_REL/				
Selection criteria						
Test Purpose name	BYE received in early dialogu	e Reason header included, a E	BYE with encapsulated REL is			
	sent					
Test Purpose	Ensure that on receipt of a B	E request in early dialogue an	nd a Reason header is present,			
	a BYE with encapsulated REI	_ message is sent. The cause i	indicator is set to the Reason			
	header cause value, the locat	ion is set to 'network beyond ir	nterworking point'			
ISUP Parameter values	REL: Cause indicator Cause	e Value = Cause_value				
	Locatio	n = network beyond interworkir	ng point			
SIP Parameter values	BYE: Reason: Q.850; cause =	= Cause_value				
Comments	The Cause_value is a PIXIT	parameter				
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	<b>→</b>	INVITE (IAM)			
	18x	<b>+</b>	18x			
	(ACM (no indication or free)					
	BYE → BYE (REL)					
	200 OK (BYE)	<b>+</b>	200 OK (BYE) RLC			
		<b>+</b>	487 Request Terminated			
	•	<b>→</b>	ACK .			

TP number	TP_106_005	Reference	[1], clauses 7.2.2, 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_REL/			
Selection criteria					
Test Purpose name	CANCEL received in early dia encapsulated REL is sent	alogue no Reason header inc	luded, a CANCEL with		
Test Purpose	Ensure that on receipt of a CANCEL request in early dialogue and no Reason header is present, a CANCEL with encapsulated REL message is sent. The cause indicator is set to No. 16 (normal clearing), the location is set to 'network beyond interworking point'				
ISUP Parameter values	REL: Cause indicator Cause Value = 31 (normal unspecified)  Location = network beyond interworking point				
SIP Parameter values		•	•		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b> -	➤ INVITE (IAM)		
	18x	+	ACM 18x (ACM (no indication or free)		
	200 OK (CANCEL) 487 Request Terminated		CANCEL (REL) 200 OK (CANCEL)RLC 487 Request Terminated		

TP number	TP_106_006	Reference	[1], clause 7.2.2			
			[2], clause 7.2.3.1.7			
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_REL/				
Selection criteria						
Test Purpose name	CANCEL received in early dia	llogue Reason header includ	ed, a CANCEL with			
	encapsulated REL is sent					
Test Purpose	Ensure that on receipt of a CA	NCEL request in early dialog	gue and a Reason header is			
	present, a CANCEL with enca	apsulated REL message is se	ent. The cause indicator is set to			
	the Reason header cause val	ue, the location is set to 'nety	vork beyond interworking point'			
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value				
	Location	= network beyond interwork	ing point			
SIP Parameter values	CANCEL: Reason: Q.850 [5];	cause = Cause_value				
Comments	The <b>Cause_value</b> is a PIXIT	parameter				
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	<b>→</b>	► INVITE (IAM)			
	18x	<del>(</del>	ACM			
			18x			
		(ACM (no indication or free)				
	CANCEL → CANCEL (REL)					
	200 OK (CANCEL)	<del>(</del>	200 OK (CANCEL)RLC			
	` ′	-	487 Request Terminated			
	•	· ·	ACK			

TP number	TP_106_007	Reference	[1], clause 7.2.2			
TCC votovovos	[2], clause 7.2.3.1.7   SIP NNI - SIP-I/Basic call/Sending_of_REL/					
TSS reference		senaing_or_REL/				
Selection criteria	PICS 6.2.1/5	I' I DOTAL VAAL LI				
Test Purpose name	with encapsulated REL is s		hLayerCompatibility present, a BYE			
Test Purpose			d dialogue and a PSTN XML			
10011 0.1000			psulated REL is sent and an ATP is			
			e value is mapped as indicated in			
	table 6.1.1.6-1	ayor companionity in the	raido lo mappod do maiodica m			
ISUP Parameter values	REL: ATP High layer com	patibility High Layer Cha	racteristic = HLC_value			
SIP Parameter values	BYE:					
	xml version="1.0" encod</th <th>ing="utf-8"?&gt;</th> <th></th>	ing="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard					
	Interpretation>10					
	PresentationMet	hod>01<				
	HLOctet4					
	HighLayerChara	cteristics>HLC_value<				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<b>→</b>	→ INVITE (IAM)			
	100 Trying	<b>←</b>				
	180 Ringing ← ← 180 Ringing (ACM –free)					
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)					
	ACK   200 OK (INVITE) (ANNI)					
	BYE	<b>→</b>	→ BYE (REL)			
	200 OK (BYE)	+	← 200 OK (RLC)			

TP number	TP_106_008	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.7	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_REL/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	BYE received in early dialogue PSTN XML HighLayerCompatibility present, a BYE with encapsulated REL is sent containing a High layer compatibility IE			
Test Purpose	Ensure that on receipt of a BYE request in early dialogue and a PSTN XML HighLayerCompatibility is present, a BYE with encapsulated REL is sent and an ATP is present containing a High layer compatibility IE. The value is mapped as indicated in table 6.1.1.6-1			
ISUP Parameter values	REL: ATP High layer compati	bility High Layer Characteristic	:= HLC_value	
SIP Parameter values	BYE: <pre><?xml version="1.0" encoding= PSTN     HighLayerCompatibility     HLOctet3     CodingStandard>00     Interpretation&gt;100&lt;         PresentationMethod     HLOctet4         HighLayerCharacter</pre>	"utf-8"?> < < >01<		
Comments				
Message flows	SIP NNI INVITE →	MGCF →	<b>SIP-I</b> INVITE (IAM)	
	BYE 200 OK (BYE) 487 Request Terminated ACK		BYE (REL) 200 OK (INVITE) RLC 487 Request Terminated ACK	

TP number	TP_106_009	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.7	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_REL/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	CANCEL received in early diale	ogue PSTN XML HighLayerCo	ompatibility present, a	
	CANCEL with encapsulated RE			
Test Purpose	Ensure that on receipt of a CAI			
	HighLayerCompatibility is pres			
	is present containing a High lay	er compatibility IE. The value	is mapped as indicated in	
	table 6.1.1.6-1			
ISUP Parameter values	<b>REL:</b> ATP High layer compati	bility High Layer Characteristi	c = HLC_value	
SIP Parameter values	CANCEL			
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>		
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMethod>01<			
	HLOctet4			
	HighLayerCharacter	istics> <b>HLC_value</b> <		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	<b>→</b>	INVITE (IAM)	
	CANCEL -	<b>→</b>	CANCEL (REL)	
	200 OK (CANCEL)		200 OK (CANCEL) (RLC)	
	487 Request Terminated ← 487 Request Terminated			
	ACK →	<b>→</b>	ACK	

Table 6.1.1.6-1: Mapping of High layer compatibility information element to PSTN XML HighLayerCharacteristic

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or	'0110011'
	interworking units	
HLC_VA_7	Telex service	'0110101'
HLC_VA_8	FTAM application	'1000010'
HLC_VA_9	Videotelephony	'1100000'

TP number	TP_106_010	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	SIP NNI - SIP-I/Basic call/Sending_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	BYE received in confirmed dia	BYE received in confirmed dialogue PSTN XML LowLayerCompatibility present, a BYE			
	with encapsulated REL is sent containing a Low layer compatibility IE				
Test Purpose	Ensure that on receipt of a BY				
	LowLayerCompatibility is pres				
	present containing a Low layer	compatibility IE. The value	is mapped as indicated in		
	table 6.1.1.6-2				
ISUP Parameter values	REL: ATP Low layer compati		apability = ITC_value		
SIP Parameter values	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN	PSTN			
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->		➤ INVITE (IAM)		
	100 Trying ←		► 100 Trying		
	180 Ringing ← ← 180 Ringing (ACM – free)				
	200 OK (INVITE) ← ← 200 OK (ANM)				
	ACK → ACK				
	BYE +	•	➤ BYE (REL)		
	200 OK (BYE) ←	•	£ 200 OK (BYE) (RLC)		

TP number	TP_106_011	Reference	[1], clause 7.2.2			
			[2], clause 7.2.3.1.7			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in early dialogue PSTN XML LowLayerCompatibility present, a BYE with					
	encapsulated REL is sent containing a Low layer compatibility IE					
Test Purpose	Ensure that on receipt of a BYE					
	LowLayerCompatibility is prese					
	present containing a Low layer	compatibility IE. The value is	mapped as indicated in			
	table 6.1.1.6-2					
ISUP Parameter values	<b>REL:</b> ATP Low layer compatil	oility Information Transfer Cap	ability = ITC_value			
SIP Parameter values	BYE	BYE				
	xml version="1.0" encoding=</p	xml version="1.0" encoding="utf-8"?				
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00	<				
	InformationTransferCapability>ITC_value<					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	<b>→</b>	INVITE (IAM)			
	BYE →	<b>→</b>	BYE (RE)L			
	200 OK (BYE) ←	<b>+</b>	200 OK (BYE) (RLC)			
	487 Request Terminated ←					
	ACK ·	→	ACK .			

TP number	TP_106_012	Reference	[1], clause 7.2.2
			[2], clause 7.2.3.1.7
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_REL/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	CANCEL received in early dialowith encapsulated REL is sent		
Test Purpose	Ensure that on receipt of a CANCEL request in early dialogue and a PSTN XML LowLayerCompatibility is present, a CANCEL with encapsulated REL is sent and an ATP is present containing a Low layer compatibility IE. The value is mapped as indicated in table 6.1.1.6-2		
ISUP Parameter values	<b>REL:</b> ATP Low layer compatib	oility Information Transfer Capa	ability = ITC_value
SIP Parameter values	CANCEL xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value<		
Comments			
Message flows	SIP NNI INVITE → CANCEL →	MGCF →	SIP-I INVITE (IAM)
	200 OK (CANCEL) 487 Request Terminated ACK	→ ← ← →	CANCEL (REL) 200 OK (CANCEL) (RLC) 487 Request Terminated ACK

Table 6.1.1.6-2: Mapping of Low Layer Compatibility to PSTN XML LowLayerCompatibility

ITC_value	LLC Information transfer capability	XML LLC InformationTransferCapability
ITC_VA_1	Speech	'00000'
ITC_VA_2	3,1 kHz audio	'10000'
ITC_VA_3	Unrestricted digital info	'01001'
ITC_VA_4	7 kHz audio	'10001'

## 6.1.1.7 Receipt of the Release Message

TP number	TP_107_001	Reference	[1], clause 7.2.2
			[2], clause 7.2.3.1.8
TSS reference	SIP NNI - SIP-I/Basic call/Rec	eipt_of_REL/	
Selection criteria			
Test Purpose name	A REL is received, a BYE requ	lest is sent	
Test Purpose	Ensure that on receipt of a BY	E with encapsulated REL mes	sage in the confirmed
	dialogue, a BYE is sent. The R	Reason header is present and	the cause value is set to the
	received cause value in the RE	EL Cause indicator	
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value	
SIP Parameter values	BYE: Reason: Q.850 [5]; cau	se = Cause_value	
Comments	Cause_value is a PIXIT param	neter	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	INVITE (IAM)
	100 Trying ←	·	100 Trying
	180 Ringing ←	·	180 Ringing (ACM – fee)
	200 OK (INVITE)	• •	200 OK (INVITE) (ANM)
	ACK -	<b>→</b>	ACK
	BYE •	·	BYE (REL)
	200 OK (BYE)	<b>→</b>	200 OK (BYE) (RLC)

TP number	TP_107_001A	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/			
Selection criteria					
Test Purpose name	A REL is received, a BYE request is sent				
Test Purpose	Ensure that on receipt of a BYE dialogue, a BYE is sent.	with encapsulated REL mes	sage in the confirmed		
	Ensure that if the Reason Header field was not received, then the received ISUP Cause value being received in the encapsulated ISUP REL message shall be mapped into SIP Reason header fields as specified				
ISUP Parameter values	REL: Cause indicator Cause				
SIP Parameter values	BYE: Reason: Q.850; cause =	Cause_value			
Comments	Cause_value is a PIXIT param	eter			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←	<b>←</b>	100 Trying		
	180 Ringing ← 180 Ringing (ACM − fee)				
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)				
	ACK → ACK				
	BYE ←	<b>+</b>	BYE (REL)		
	200 OK (BYE) →	<b>→</b>	200 OK (BYE) (RLC)		

TP number	TP_107_002	Reference	[1], clause 7.2.2 [2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rece	SIP NNI - SIP-I/Basic call/Receipt_of_REL/			
Selection criteria		· = =			
Test Purpose name		A SIP_final_Response with encapsulated REL is received before an early dialogue is established, a final response is sent			
Test Purpose	Ensure that on receipt of a SIP_final_Response with encapsulated REL message before an early dialogue is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response				
ISUP Parameter values	REL: Cause indicator Cause Value = Cause_value				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850 [5]; cause = Cause_value				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<b>→</b>	INVITE (IAM)		
	100 Trying ←	+	Trying		
	SIP_final_Response ← ACK →	<del>←</del>	SIP_final_Response (REL) ACK (RLC)		

TP number	TP_107_003	Reference	[1], clause 7.2.2 [2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call/Receipt_of_REL/			
Selection criteria		•		
Test Purpose name	A SIP_final_Response with enestablished (180), a final response	•	d after an early dialogue is	
Test Purpose	Ensure that on receipt of a SIP_final_Response with encapsulated REL message after an early dialogue due to sending a 180 Ringing is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response			
ISUP Parameter values	ACM: BCi Called party status = subscriber free REL: Cause indicator Cause Value = Cause value			
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850 [5]; cause = <b>Cause_value</b>			
Comments				
Message flows	SIP NNI INVITE 180 Ringing  SIP_final_Response ACK  →		SIP-I  → INVITE (IAM)  ← 180 Ringing (ACM)  ← SIP_final_Response (REL)  → ACK (RLC)	

TP number	TP_107_004	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call/Rec	SIP NNI - SIP-I/Basic call/Receipt_of_REL/		
Selection criteria				
Test Purpose name	A SIP_final_Response with encapsulated REL is received after an early dialogue is established (181), a final response is sent			
Test Purpose	Ensure that on receipt of a SIP_final_Response with encapsulated REL message after an early dialogue due to sending a 181 Call Is Being Forwarded is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response			
ISUP Parameter values  SIP Parameter values	ACM: BCi Called party status Redirection number Call diversion informati Generic notification = 'C REL: Cause indicator Cause	on Call is diverted' Value = <b>Cause_value</b>		
	4xx/5xx/6xx: Reason: Q.850 [5	oj, cause = <b>cause_value</b>	<del>,</del>	
Message flows	SIP NNI INVITE 181 Call Is Being Forwarded	MGCF → ←	SIP-I  → INVITE (IAM)  ← 181 Call Is Being Forwarded (ACM)	
	SIP_final_Response	<b>←</b> →	<ul><li>SIP_final_Response (REL)</li><li>→ (ACK) RLC</li></ul>	

TP number	TP_107_005	Reference	[1], clause 7.2.2
			[2], clause 7.2.3.1.8
TSS reference	SIP NNI - SIP-I/Basic call	Receipt_of_REL/	
Selection criteria			
Test Purpose name	A SIP_final_Response with	th encapsulated REL is re	ceived after an early dialogue is
	established (183), a final i	response is sent	
Test Purpose			early dialogue due to sending a 183
			se is sent. The response code is derived
			g the rules described in table 6.1.1.7-1.
	The cause value of the re-	ceived REL is present in t	he Reason header of the sent final
	response		
ISUP Parameter values	ACM: BCi Called party st		
	oBCi in-band info a		
	REL: Cause indicator Ca		ie
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850ause = Cause_value		
Comments			
Message flows	SIP NNI	MGC	F SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	183 Session Progress	<b>←</b>	<ul> <li>183 Session Progress</li> </ul>
			(ACM)
SIP_final_Response ← SIP_final_			
	·		(REL)
	ACK	<b>→</b>	→ (ACK) RLC

TP number	TP_107_006	Reference	[1], clause 7.2.2		
IF Hulliber	11 _107_000	IVELET ELLCE	:		
TSS reference					
		ipt_oi_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Progress indicator IE p				
	mapped into the PSTN XML Pr				
Test Purpose	Ensure that on receipt of a SIP				
	Progress Indicator IE is presen				
	table 6.1.1.7-1 is sent, a PSTN	XML ProgressIndicator is con	tained and the Progress		
	Description is derived from the	received REL Progress indica	tor as indicated in		
	table 6.1.1.7-2	-			
ISUP Parameter values	REL: ATP Progress Indicator	= PI_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding=</th <th>"utf-8"?&gt;</th> <th></th>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescription	>PI value<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	(INVITE) IAM		
	180 Ringing ← 180 Ringing (ACM)				
	100 Kinging (AOM)				
	SIP_final_Response				
	ACK → ACK (RLC)				
	ACK 7 ACK (RLC)				

TP number	TP_107_007	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	An ATP High Layer Compatibil	ty IE present in a REL is mapp	ped into the PSTN XML	
	HighLayerCompatibility in the s	ent final response		
Test Purpose	Ensure that on receipt of a SIP			
	Layer Compatibility IE is present			
	table 6.1.1.7-1 is sent, a PSTN			
	HighLayerCharacteristics is de	rived from the received REL H	igh Layer Compatibility as	
	indicated in table 6.1.1.7-3			
ISUP Parameter values	<b>REL:</b> ATP High Layer Compa	tibility = HLC_value		
SIP Parameter values	4xx/5xx/6xx:			
	xml version="1.0" encoding=</th <th colspan="3"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?		
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00	<		
	Interpretation>100<			
	PresentationMethod>01<			
	HLOctet4			
	HighLayerCharacter	istics>HLC_value<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	180 Ringing ← ← 180 Ringing (ACM)			
	SIP_final_Response ← SIP_final_Response (REL)			
	ACK → (ACK) RLC			

TP number	TP_107_008	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call/Rece	ipt_of_REL/	12 1:	
Selection criteria	PICS 6.2.1/5	•		
Test Purpose name	An ATP Low Layer Compatibilit	y IE present in a REL is mapp	ped into the PSTN XML	
	LowLayerCompatibility in the se	ent final response		
Test Purpose	Ensure that on receipt of a SIP			
	Layer Compatibility IE is preser	nt in an ATP, a SIP final respo	onse as indicated in	
	table 6.1.1.7-1 is sent, a PSTN			
	InformationTransferCapability is	s derived from the received R	EL Low Layer Compatibility as	
	indicated in table 6.1.1.7-4			
ISUP Parameter values	REL: ATP Low Layer Compat	ibility = ITC_value		
SIP Parameter values	4xx/5xx/6xx:			
	<pre><?xml version="1.0" encoding=</pre></pre>	xml version="1.0" encoding="utf-8"?		
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00	<		
	InformationTransfer(	Capability> <b>ITC_value</b> <		
	LLOctet4>			
	TransferMode>00<			
	InformationTransferf	Rate>10000<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	180 Ringing ← 180 Ringing (ACM –free)			
	SIP_final_Response ← SIP_final_Response (REL)			
	ACK →	<b>→</b>	(ACK) RLC	

Table 6.1.1.7-1: Receipt of the Release message (REL)

SIP_final_Response	←SIP Message	← REL	
	Status code	Cause parameter	
VA_01	404 Not Found	Cause value No. 1 (unallocated (unassigned) number)	
VA_02	604 Does not exist anywhere	Cause value No 2 (no route to network)	
VA_03	604 Does not exist anywhere	Cause value No 3 (no route to destination)	
VA_04	500 Server Internal error	Cause value No. 4 (Send special information tone)	
VA_05	404 Not Found	Cause value No. 5 (Misdialled trunk prefix)	
VA_06	486 Busy Here	Cause value No. 17 (user busy)	
VA_07	480 Temporarily unavailable	Cause value No 18 (no user responding)	
VA_08	480 Temporarily unavailable	Cause value No 19 (no answer from the user)	
VA_09	480 Temporarily unavailable	Cause value No. 20 (subscriber absent)	
VA_10	603 Decline	Cause value No 21 (call rejected), Location = 000 / user (U)	
VA_11	403 Forbidden	Cause value No 21 (call rejected), Location not equal 000 / user (U)	
VA_12	410 Gone	Cause value No 22 (number changed)	
VA_13	410 Gone	Cause value No 23 (Re-route to new destination)	
VA_14	433 Anonymity Disallowed	Cause value No. 24 (call rejected due to ACR supplementary service)	
VA_15	483 Too many hops	Cause value No 25 (Exchange routing error)	
VA_16	480 Temporarily unavailable	Cause value No 26 (Non-selected user clearing)	
VA_17	502 Bad Gateway	Cause value No 27 (destination out of order)	
VA_18	484 Address Incomplete	Cause value No. 28 invalid number format (address incomplete)	
VA_19	501 Not Implemented	Cause value No 29 (facility rejected)	
VA_20	480 Temporarily unavailable	Cause value No 31 (normal unspecified) (class default)	
VA_21	486 Busy here	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS possible	
VA_22	480 Temporarily unavailable	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS not possible or absent	
VA_23	500 Server Internal error	Cause value No 38 (Network out of order)	
VA_24	503 Service Unavailable	Cause value No 41 (Temporary failure)	
VA_25	503 Service Unavailable		
VA_26	500 Server Internal error	Cause value No 43 (Access information discarded)	
VA_27	503 Service Unavailable	Cause value No 44 (Requested channel not available)	
VA_28	500 Server Internal error	Cause value No 46 (Precedence call blocked)	
VA_29	503 Service Unavailable	Cause value No 47 (Resource unavailable (class default))	
VA_30	488 Not acceptable here	Cause value No 50 (requested facility no subscribed)	
VA_31	603 Decline	Cause value No 55 (Incoming class barred within Closed User Group (CUG))	
VA_32	603 Decline	Cause value No 57 (bearer capability not authorized)	
VA_33	503 Service Unavailable	Cause value No 58 (bearer capability not presently available)	
VA_34	501 Not Implemented	Cause value No 63 (service option not available, unspecified) (class default)	
VA_35	500 Server Internal error	Cause value No 65 Bearer capability not implemented	
VA_36	501 Not Implemented	Cause value No 69 (Requested facility not implemented)	
VA_37	501 Not Implemented	Cause value No 70 (Only restricted digital	
_	,	information capability available)	

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
VA_38	501 Not Implemented	Cause value No 79 (Service or option not
		implemented(class default))
VA_39	403 Forbidden	Cause value No 87 (User not member of Closed
		User Group(CUG))
VA_40	606 Not acceptable	Cause value No 88 (incompatible destination)
VA_41	403 Forbidden	Cause value No 90 (Non existing Closed User Group (CUG))
VA_42	500 Server Internal error	Cause value No 91 (invalid transit network selection)
VA_43	500 Server Internal error	Cause value No 95 (invalid message) (class default)
VA_44	501 Not Implemented	Cause value No 97 (Message type
	oo i i ioi iiiipioiiioii	non-existent or not implemented)
VA_45	501 Not Implemented	Cause value No 99 (information
_	·	element/parameter non-existent or not
		implemented))
VA_46	501 Not Implemented	Cause value No 98 (Message not compatible
		with call state or message type non-existent or
		not implemented)
VA_47	480 Temporarily unavailable	Cause value No. 102 (recovery on timer expiry)
VA_48	501 Not Implemented	Cause value No 103 (Non-existent parameter
		passed on)
VA_49	501 Not Implemented	Cause value No 110 (Message with
		unrecognized Parameter, discarded)
VA_50	400 Bad Request	Cause value No. 111 (protocol error,
		unspecified)
) / A = 4	5000	(class default)
VA_51	500 Server Internal error	Cause value No. 127 (interworking unspecified)
		(class default)

Table 6.1.1.7-2: Mapping of Progress Indicator information element to PSTN XML ProgressIndicator

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'000001'
PI_VA_2	Destination address is non-ISDN	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

Table 6.1.1.7-3: Mapping of High layer compatibility information element to PSTN XML HighLayerCharacteristic

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or interworking units	'0110011'
HLC_VA_7	Telex service	'0110101'
HLC_VA_8	FTAM application	'1000010'
HLC_VA_9	Videotelephony	'1100000'

Table 6.1.1.7-4: Mapping of Low Layer Compatibility to PSTN XML LowLayerCompatibility

ITC_value	LLC Information transfer capability	XML LLC InformationTransferCapability
ITC_VA_1	Speech	'00000'
ITC_VA_2	3,1 kHz audio	'10000'
ITC_VA_3	Unrestricted digital info	'01001'
ITC_VA_4	7 kHz audio	'10001'

6.1.1.8 Void

6.1.1.9 Void

6.1.1.10 Void

## 6.1.2 Signalling Interworking of a Call from SIP-I based circuit-switched core network towards the IP Multimedia Subsystem

## 6.1.2.1 Sending of INVITE

TP number	TP_201_001	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1
TSS reference	SIP-I-SIP/Basic call/S	Sending_of_INVITE/	
Selection criteria			
Test Purpose name	IAM received, a INVI	TE is sent	
Test Purpose	Ensure that on receip sent	ot of an INVITE with encapsulate	ed IAM message, an INVITE request is
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE (IAM)	<b>→</b>	→ INVITE
			<ul><li>100 Trying</li></ul>
		Apply post test ro	utine

TP number	TP 201 004	Reference	[1], clause 7.3.1
Ti Tidiniber	11 _201_004	Troi o i o i	[2], clause 7.2.3.2.1.3
T00 (	OLD LOLD/D : II/O	P ( IND /ITE /	[[2], clause 1.2.3.2.1.3
TSS reference	SIP-I-SIP/Basic call/Ser	nding_of_INVITE/	
Selection criteria	PICS 6.2.1/11		
Test Purpose name			party number in INF received
Test Purpose	Ensure that on receipt of	of an IAM and no Calling pa	rty number is present, an Information
	Request (INR) message	e is sent. On receipt of an I	nformation (INF) message containing a
		e initial INVITE request is se	
ISUP Parameter values	IAM: No calling party	number present	
			ing party address requested
		dress response=calling part	
	Calling party nur		ly dddiodd molddod
SIP Parameter values	Calling party ridi	nbei	
Comments			
Message flows	SIP-I	MGCF	SIP-NNI
	INVITE (IAM)	<b>→</b>	
	183 Session Progress	<b>←</b>	
	(INR)		
	INFO (INF)	<b>→</b>	→ INVITE
	` '		=
	200 OK (INFO)	<b>←</b>	← 100 Trying
		Apply post test	routine

TP number	TP_201_005	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1.3
TSS reference	SIP-I-SIP/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/11 AND PICS 6.2.1/12		
Test Purpose name	Information request procedure not successful, no Calling party number in INF received, the call is rejected		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message and no Calling party number is present, the call is rejected		
ISUP Parameter values	IAM: No calling party	number present	·
	INR: Calling party add	dress request indicator=call	ing party address requested
	<b>INF:</b> Calling party add	dress response=calling part	y address not included
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP-NNI
	INVITE (IAM)	<b>→</b>	
	183 Session Progress (INR)	<b>←</b>	
	INFO (INF) →		
	4xx/5xx/6xx (REL)	<b>←</b>	
	ACK	<b>→</b>	
	-	Apply post test	routine

TP number	TP_201_006	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.1.3		
TSS reference	SIP-I-SIP/Basic call/Ser	nding_of_INVITE/			
Selection criteria	PICS 6.2.1/11 AND NO	T PICS 6.2.1/12			
Test Purpose name		cedure not successful, no C	alling party number in INF received, the		
	call is continued				
Test Purpose			ty number is present, an Information		
	. , ,	•	formation (INF) message and no		
	Calling party number is	present, the call is continue	d		
ISUP Parameter values	0, ,	IAM: No calling party number present			
	<b>INR:</b> Calling party add	dress request indicator=calli	ng party address requested		
	<b>INF:</b> Calling party add	dress response=calling party	/ address not included		
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM)	<b>→</b>			
	183 Session Progress	<b>←</b>			
	(INR)				
	ÌNFÓ (INF)	<b>→</b>	→ INVITE		
	' '		← 100 Trying		
		Apply post test r	, ,		

TP number	TP_201_007	Reference	[1], clause 7.3.1		
T00 (	OID LOID/D : II/O II	( IND (ITE /	[2], clause 7.2.3.2.1.3		
TSS reference	SIP-I-SIP/Basic call/Sending	_Of_INVITE/			
Selection criteria	PICS 6.2.1/11				
Test Purpose name	Information request procedure	e not successful, T 33 is expire	ed		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and no Calling party number is present, an Information Request (INR) message is sent. If timer T33 is expired, the call is rejected				
ISUP Parameter values	IAM: No calling party numb	er present request indicator=calling party	address requested		
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →				
	183 Session Progress ← (INR)	Start T <sub>33</sub>			
	4xx/5xx/6xx (REL) ←	T <sub>33</sub> Expiry			
	ACK →	Apply post test routine			

TP number	TP_201_008	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.1.4 a)		
TSS reference	SIP-I-SIP/Basic call/S	Sending_of_INVITE/			
Selection criteria					
Test Purpose name	End of address signa	alling determined by receipt of e	end-of-pulsing signal		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the called party number				
	contains the end-of-	pulsing (ST) signal, the initial	INVITE is sent		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP- I	MGCF	SIP-NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE		
	, ,		← 100 Trying		
		Apply post test re	outine		

TP number	TP_201_009	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.1.4 b)		
TSS reference	SIP-I-SIP/Basic call/S	Sending_of_INVITE/			
Selection criteria					
Test Purpose name	End of address signa the national numbering	•	pt of the maximum number of digits used in		
Test Purpose			psulated IAM and the called party number the national numbering plan, the initial		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE		
			← 100 Trying		
	Apply post test routine				

TP number	TP_201_010	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.1.4 c)		
TSS reference	SIP-I-SIP/Basic call/Sending_c	I	[[2], clause 7.2.3.2.1.4 c)		
Selection criteria					
Test Purpose name	End of address signalling determined to the called party	mined by receipt of sufficient n	umber of digits to route the		
Test Purpose	Ensure that on receipt of an IN contains a <b>sufficient number</b> INVITE is sent				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	Apply post test routine				

TP number	TP_201_011	F	Reference	[1], clause 7.3.1
				[2], clause 7.2.3.2.1.4 d)
TSS reference	SIP-I-SIP/Basic call/Sen	ding_of_	_INVITE/	18 3/
Selection criteria				
Test Purpose name	End of address signalling	g detern	nined by observing tha	at timer Ti/w1 has expired
Test Purpose				I IAM followed by several INVITEs
				digits required for routing the call
	have been received time	er Ti/w1	is started. When time	r Ti/w1 is expired the initial INVITE
	is sent			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP-I		MGCF	SIP-NNI
	INVITE (IAM)	<b>→</b>		
	INVITE (SAM)	<b>→</b>		
	484 Address	<b>←</b>		
	Incomplete	_		
	ACK	<b>→</b>		
	INVITE (SAM)	<b>→</b>	Start Ti/w1	
	484 Address	<b>←</b>		
	Incomplete	•		
	ACK	<b>→</b>		
	7.6.1	-		
			Timeout Ti/w1	→ INVITE
				<ul><li>100 Trying</li></ul>
			Apply post test rou	tine

TP number	TP_201_012		Reference		[1], clause 7.3.1 [2], clause 7.2.3.2.1.4
TSS reference	SIP-I-SIP/Basic call/Send	ding_o	f_INVITE/		
Selection criteria					
Test Purpose name	Early ACM is sent after e	xpiry c	of Ti/w2 receipt of end-	of-pulsir	ng signal
Test Purpose					sing signal, the timer Ti/w2 is
					capsulated ACM is sent and
	the called party status inc			'	
ISUP Parameter values	ACM: Called party statu	s=no ir	ndication		
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP-NNI
		→			
		→			
		<b>←</b>			
	Incomplete(1)				
	,	→			
		→			
		<b>←</b>			
	Incomplete(2)				
		→			
	INVITE (SAM)	<b>→</b> S	Start Ti/w2	→	INVITE
				<b>←</b>	100 Trying
	484 Address	<b>←</b>			
	Incomplete (3)				
	ACK	<b>→</b>			
	183 Session Progress (ACM)	<b>←</b> T	imeout Ti/w2		
			Apply post test rou	ıtine	

TP number	TP_201_013		Reference		[1], clause 7.3.1 [2], clause 7.2.3.2.1.4
TSS reference	SIP-I-SIP/Basic call/Send	ina o	f INVITE/		[[=]; 0.0000 : .=.0.=
Selection criteria		<u>3</u> -	<u></u>		
Test Purpose name	Early ACM is sent after ex	cpiry c	of Ti/w2 receipt of the ma	aximui	m number of digits used in the
	national numbering plan	. ,	'		S
Test Purpose		TE is	sent after receipt of the	maxin	num number of digits used in
-					expiry of Ti/w2 an ACM is sent
	and the called party status				
ISUP Parameter values	ACM: Called party status	=no ii	ndication		
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP-NNII
	INVITE (IAM)	<b>→</b>			
	INVITE (SAM)	<b>→</b>			
		<del>(</del>			
	Incomplete(1)				
	ACK -	<b>→</b>			
	INVITE (SAM)	<b>→</b>			
	484 Address	<b>(</b>			
	Incomplete(2)				
	ACK -	<b>→</b>			
	INVITE (SAM)	<b>→</b> 5	Start Ti/w2	<b>→</b>	INVITE
	, ,	<b>→</b>		<b>←</b>	100 Trying
		<del>(</del>			, 3
	Incomplete(3)				
		<b>→</b>			
		<b>-</b> 1	Timeout Ti/w2		
	(ACM)				
			Apply post test routi	ne	

TP number	TP_201_014	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1.4
TSS reference	SIP-I-SIP/Basic call/Sending	g_of_INVITE/	
Selection criteria			
Test Purpose name	Early ACM is sent after expi	ry of Ti/w2 receipt of a sufficient	number of digits to route the
	call to the called party		
Test Purpose		is sent after receipt of a sufficie	
		mer Ti/w2 is started. After expiry	y of Ti/w2 an ACM is sent and
	the called party status indica		
ISUP Parameter values	<b>ACM:</b> Called party status=r	no indication	
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP-NNI
	INVITE (IAM) →		
	484 Address ←		
	Incomplete(1)		
	ACK →		
	INVITE (SAM) →		
	484 Address ⊂ ←		
	Incomplete(2)		
	ACK →		
	INVITE (SAM) →	Start Ti/w2 →	INVITE
	,	÷	100 Trying
	183 Session Progress ← (ACM)	Timeout Ti/w2	
		Apply post test routine	

TP number	TP_201_015		Reference	[1], clause 7.3.1
				[2], clause 7.2.3.2.1.4
TSS reference	SIP-I-SIP/Basic call/Se	ending_o	f_INVITE/	
Selection criteria	PICS 6.2.3/3			
Test Purpose name	A PSTN XML Sending	Complete	eIndication is sent if the	end of the address signalling is
	determined			
Test Purpose	Ensure that the end of	f the addr	ess signalling is determi	ned a PSTN XML
-	SendingCompleteIndia	cation is	sent	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP-I		MGCF	SIP-NNI
	INVITE (IAM)	<b>→</b>		
	484 Address	<b>←</b>		
	Incomplete			
	ACK '	<b>→</b>		
	INVITE (SAM)	<b>→</b>		
	484 Address	<b>←</b>		
	Incomplete(1)			
	ACK	→		
		=		
	INVITE (SAM)	<b>→</b>		→ INVITE
		=		← 100 Trying
			Apply post test routi	

TP number	TP_201_017	Reference	[1], clause 7.3.1			
	015 1 015 /5 : 11/0 1:	( INDATE /	[2], clause 7.2.3.2.1a.3			
TSS reference	SIP-I-SIP/Basic call/Sending_c	ot_INVITE/				
Selection criteria	PICS 6.2.3/2					
Test Purpose name	Overlap dialling using the multi	ple INVITE method				
Test Purpose	Ensure that on receipt of a 484					
	containing an insufficient numb					
	additional SAMs in an addition		and the From tag values are			
	identical to the values sent in t	ne initial INVITE				
ISUP Parameter values						
SIP Parameter values		e received digits in IAM and SA	AMs>			
		From: tag= <equal initial="" invite="" to=""></equal>				
	Call-ID: <equal in<="" th="" to=""><th>itial INVITE&gt;</th><th></th></equal>	itial INVITE>				
Comments						
Message flows	SIP-I	MGCF	SIP-NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
	484 Address ←	<b>+</b>	484 Address Incomplete			
	Incomplete		•			
	ACK →	<b>→</b>	ACK			
		_				
	INVITE (SAM) →	<b>→</b>	INVITE			
	484 Address ← Incomplete	<b>←</b>	484 Address Incomplete			
	ACK ->	<b>→</b>	ACK			
	ACK 4	7	ACK			
	INVITE (SAM) →	<b>→</b>	INVITE			
		Apply post test routine				

TP number	TP_201_018		Reference		[1], clause 7.3.1
	11 _201_010		TO OTO TO TO		[2], clause 7.2.3.2.1.1a.3
TSS reference	SIP-I - SIP NNI/Basic cal	I/Send	ding of INVITE/		[2], oladee 7.2.6.2.1.14.6
Selection criteria			<u> </u>		
Test Purpose name	After expiry of Ti/w2 addi	itional	received SAMs are igno	ored	
Test Purpose	Ensure that after expiry of	of Ti/w	2 an ACM is sent and th	ne calle	d party status indicator is set
	to 'no indication' and add	litional	received SAMs are igne	ored	
ISUP Parameter values	ACM: Called party statu	s=no i	indication		
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP-NNI
	INVITE (IAM)	<b>→</b>			
	484 Address	←			
	Incomplete				
	ACK	<b>→</b>			
	INVITE (SAM)	<b>→</b>			
	` '	÷			
	Incomplete	•			
	·	<b>→</b>			
			Start Ti/w2	<b>→</b>	INVITE
	<i>57</i>	- '	otait 17712	<b>É</b>	100 Trying
	183 Session Progress (ACM)	<b>←</b>	Timeout Ti/w2	_	
	SAM	<b>→</b>			
			Apply post test rout	tine	

TP number	TP_201_020	Reference	[1], clause 7.3.1
		1	[2], clause 7.2.3.2.1a.3
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_INVITE/	
Selection criteria	PICS 6.2.3/2		
Test Purpose name	Overlap dialling using the mul		
Test Purpose	Ensure that on receipt of a 18	ORinging while the multiple IN\	/ITE procedure is used an
	additional received SAM is igr	ored	
ISUP Parameter values			
SIP Parameter values	INVITE: Request URI <all th="" the<=""><th>e received digits in IAM and SA</th><th>AMs&gt;</th></all>	e received digits in IAM and SA	AMs>
	From: tag= <equal t<="" th=""><th>o initial INVITE&gt;</th><th></th></equal>	o initial INVITE>	
	Call-ID: <equal it<="" th="" to=""><th></th><th></th></equal>		
Comments	·		
Message flows	SIP I	MGCF	SIP-NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	484 Address	<b>←</b>	484 Address Incomplete
	Incomplete		•
	ACK →	<b>→</b>	ACK
	INVITE (SAM) →	→	INVITE
	484 Address ←	<del>-</del>	484 Address Incomplete
	Incomplete	-	10 17 tadrees meemplete
	ACK →	<b>→</b>	ACK
	, tert	-	7.OK
	INVITE (SAM) →	<b>→</b>	INVITE
	180 Ringing	·	180 Ringing
	(ACM - free)	•	100 Kinging
	INVITE (SAM) →		
	INVITE (SAIVI)	Apply post test routine	
		Apply post test routille	

TP number	TP_201_021	Reference	[1], clause 7.3.1		
TCC reference	CID I CID NINII/Daais!	/Conding of INIVITE/	[2], clause 7.2.3.2.1a.3		
TSS reference Selection criteria	SIP-I - SIP NNI/Basic call PICS 6.2.3/1 AND PICS 6				
Test Purpose name		multiple INVITE method an	d preconditions used		
Test Purpose			ed IAM and the continuity indicator	is	
•			uit' or 'Continuity check required on		
	this circuit' the INVITE red	quests are sent for all digits	to be transferred and the Supporte	d	
			If the UPDATE message is received	ed,	
		ent to fulfil the preconditions		••	
ISUP Parameter values			ck required on this circuit or contin	uity	
	check performed of	on previous circuit			
SIP Parameter values	INVITE: Request URI <	all the received digits in IAM	/I and SAMs>		
		ual to initial INVITE>			
		to initial INVITE>			
		condition, 100rel			
	SDP a=curr:qos				
		remote none			
		mandatory local sendrecv none remote sendrecv			
	a=ue3.qu3	none remote sendreev			
	183: Require: 100rel				
	SDP a=curr:qos	local none			
		remote none			
		mandatory local sendrecv			
		mandatory remote sendrecy	/		
	a=coni.qos	remote sendrecv			
	UPDATE:				
	SDP a=curr:qos local sendrecv				
		remote none			
		mandatory local sendrecv			
	a=des:qos	mandatory remote sendrecy	/		
	200 OK UPDATE				
		local sendrecv			
		remote sendrecv			
		mandatory local sendrecv			
		mandatory remote sendrecy			
Comments		thin the duration of timer T8			
Message flows	SIP-I INVITE (IAM)	MGCF →	SIP-NNI → INVITE		
		<del>/</del>	← 484 Address Incomplete		
	Incomplete		Tot Address meomplete		
	•	<b>→</b>	→ ACK		
	INVITE (SAM)	<b>→</b>	→ INVITE		
		←	← 484 Address Incomplete		
	Incomplete	_	<b>&gt;</b> 401/		
	ACK	<b>→</b>	→ ACK		
	INVITE (SAM)	<b>→</b>	→ INVITE		
	* *	<del></del>	← 183 Session Progress		
	_	` <del>}</del>	→ PRACK		
		<del>-</del>	€ 200 OK (PRACK)		
		<b>→</b>	→ UPDATE		
	200 OK (UPDATE)	←	← 200 OK (UPDATE)		
		Apply post test rou	utine		

TP number	TP_201_023	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.1.5		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_INVITE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of USI and USI prime	e into PSTN XML BearerCa	pability element		
Test Purpose	Ensure that on receipt of an IN	IVITE with encapsulated IA	M that includes a USI and USI		
	Prime parameter then the SU				
		e second Bearer Capability	stated in the XML		
	BearerCapability element				
	<ul> <li>The first offered codec is</li> </ul>	the CLEARMODE codec			
		Bearer Capability stated in	the XML BearerCapability		
	element and				
	<ul> <li>The second offered code</li> </ul>				
ISUP Parameter values	IAM: USI=speech or 3,1 kHz				
	USI prime=unrestricted				
	TMR Prime: 64 kBit/s p				
	ATP(HLC Video Telepl	nony)			
SIP Parameter values	INVITE:				
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	BearerCapability BCoctet3				
	CodingStandard>0	2.4			
			21-		
	InformationTransferCapability>mapped from USI<				
	BearerCapability				
	BCoctet3				
	CodingStandard>0	)<			
		Capability>mapped from U	SI prime<		
		3 11111			
	SDP:				
	m=audio <proper number<="" port="" th=""><th>&gt; RTP/AVP CLEARMODE</th><th>8</th></proper>	> RTP/AVP CLEARMODE	8		
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →		→ INVITE		
			← 100 Trying		
		Apply post test routine	9		

TP number	TP_201_024	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/			
Selection criteria					
Test Purpose name	Called party number is mapped	I into Request URI in the sent	INVITE request		
Test Purpose	<ul> <li>Ensure that on receipt of an INVITE with encapsulated IAM the called party number is mapped into the Request URI of the sent INVITE request:</li> <li>If the nature of address indicator is set to 'National (significant) number' then the country code of the network in which the SUT is located and a leading '+' is inserted before the number digits received in the Called party number</li> <li>If the nature of address set to 'International number' a '+' is inserted before the number</li> </ul>				
ICUD Deservation and the	digits received in the Calle		latamatia alla makan		
ISUP Parameter values		ational (significant) number or	International number		
SIP Parameter values	or tel: '+CC' <called if the called party number</called 	d party number digits>@hostp party number digits> er is a <b>national number</b> arty number digits>@hostporti			
		rty number digits> er is an <b>international numbe</b>	or .		
Comments	are cance party name		•		
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	→ +	INVITE 100 Trying		
		Apply post test routine			

TP number	TP 201 025	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/				
Selection criteria		<del></del>			
Test Purpose name	Called party number is mapped	d into To header in the sent IN	VITE request		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM the called party number is mapped into the Request URI of the sent INVITE request:  • If the nature of address indicator is set to 'National (significant) number' then the country code of the network in which the SUT is located and a leading '+' is inserted before the number digits received in the Called party number				
	<ul> <li>If the nature of address se digits received in the Calle</li> </ul>	t to 'International number <sup>'</sup> a '+' d party number	is inserted before the number		
ISUP Parameter values	IAM: Called party number= N	lational (significant) number or	International number		
SIP Parameter values	or tel: '+CC' <called '+'="" <called="" called="" if="" number="" or="" party="" party<="" sip:="" tel:="" th="" the=""><th>d party number digits&gt;@hostpool I party number digits&gt; er is a <b>national number</b> earty number digits&gt;@hostportion earty number digits&gt; er is an <b>international numbe</b></th><th>on; user=phone</th></called>	d party number digits>@hostpool I party number digits> er is a <b>national number</b> earty number digits>@hostportion earty number digits> er is an <b>international numbe</b>	on; user=phone		
Comments	OID I	M005	OID NAIL		
Message flows	SIP-I INVITE (IAM) →	MGCF → ←	SIP-NNI INVITE 100 Trying		
		Apply post test routine			

TP number	TP_201_026	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.2	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/		
Selection criteria				
Test Purpose name	Mapping of TMR into SDP			
Test Purpose	Ensure that on receipt of an IN'	VITE with encapsulated IAM th	ne TMR_value is mapped into	
	the SDP according table 6.1.2.	1-1		
ISUP Parameter values	IAM: TMR=TMR_value			
SIP Parameter values	INVITE:			
	SDP			
	m= <media> <transport> <fmt-list></fmt-list></transport></media>			
	a= rtpmap: <dynamic-pt< th=""><th>&gt; <encoding name="">/<clock ra<="" th=""><th>te&gt;[/encoding parameters&gt;</th></clock></encoding></th></dynamic-pt<>	> <encoding name="">/<clock ra<="" th=""><th>te&gt;[/encoding parameters&gt;</th></clock></encoding>	te>[/encoding parameters>	
Comments				
Message flows	SIP-I	MGCF	SIP-NNI	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine	· -	

Table 6.1.2.1-1: Mapping of TMR value into m line

TMR_value	TMR parameter		m= line		a= line
		<media></media>	<transport></transport>	<fmt-list></fmt-list>	rtpmap: <dynamic-pt> <encoding name&gt;/<clock rate="">[/encoding parameters&gt;</clock></encoding </dynamic-pt>
VA_01	"speech"	audio	RTP/AVP	0 (and possibly 8)	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)
VA_02	"3,1 kHz audio"	audio	RTP/AVP	0 (and possibly 8)	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)
VA_03	"64 kbit/s unrestricted"	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>

TP number	TP 201 027	Reference	[1] clause 7.2.1			
i F ilulibei	11-201_021	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.2.2			
TSS reference	SIP-I - SIP NNI/Basi	c call/Sending_of_INVITE	/			
Selection criteria						
Test Purpose name	AMR codec included	d				
Test Purpose	Ensure that on receip	pt of an INVITE with enca	psulated IAM an INVITE is sent. If the			
-			3,1 kHz audio, the SDP in the sent INVITE			
	contains an AMR co		-, · · · · · · · · · · · · · · · ·			
ISUP Parameter values	IAM: TMR=speech	or 3,1 kHz audio				
SIP Parameter values	INVITE:					
	SDP:					
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>					
		a = <rtpmap dynamic="" pt=""> AMR</rtpmap>				
Comments						
Message flows	SIP-I	MGCF	SIP-NNI			
	INVITE (IAM)	<b>→</b>	→ INVITE			
	` '		← 100 Trying			
	Apply post test routine					

TP number	TP_201_028	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.2	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_INVITE/		
Selection criteria				
Test Purpose name	Mapping of USI parameter			
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM t	he <b>USI_value</b> is mapped into	
	the SDP according table 6.1.2.	1-2		
ISUP Parameter values	IAM: User service information	n		
SIP Parameter values	INVITE:			
	SDP			
	m= <media> <transport> <fmt-list></fmt-list></transport></media>			
	a= rtpmap: <dynamic-p< th=""><th>T&gt; <encoding name="">/<clock ra<="" th=""><th>ate&gt;[/encoding parameters&gt;</th></clock></encoding></th></dynamic-p<>	T> <encoding name="">/<clock ra<="" th=""><th>ate&gt;[/encoding parameters&gt;</th></clock></encoding>	ate>[/encoding parameters>	
Comments				
Message flows	SIP-I	MGCF	SIP-NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	Apply post test routine			

Table 6.1.2.1-2: Mapping of USI parameter into m line

USI_value	USI para	USI parameter		m:	= line		a= line
	Information Transport Capability	User Information Layer 1 Protocol Indicator		<media></media>	<transport></transport>	<fmt-list></fmt-list>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>
VA_01	"speech"	"G.711 μ-law"		audio	RTP/AVP	0	rtpmap:0 PCMU/8000
VA_02	"speech"	"G.711 A-law"		audio	RTP/AVP	8	rtpmap:8 PCMA/8000
VA_03	"3,1 kHz audio"		"Facsimile Group 2/3"		Udptl or tcp	t38	Based on Recommendation ITU-T T.38 [4]

TP number	TP_201_029	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.3A	
TSS reference	SIP-I - SIP NNI/Basic	call/Sending_of_INVITE/		
Selection criteria				
Test Purpose name	Mapping of Calling pa	rty's category into cpc paramet	ter	
Test Purpose			ed IAM the calling party's category P-Asserted-Identity and the Accept-	
		ne sent INVITE as described in		
ISUP Parameter values	IAM: Calling party's	category		
SIP Parameter values	INVITE: P-Asserted	-Identity		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
			← 100 Trying	
	Apply post test routine			

Table 6.1.2.1-3: Mapping of Calling's party category into 'cpc' parameter and Accept-Language header

CPC_value	ISUP IAM parameter	SIP Parameters	
	Calling party's category	"cpc" URI parameter in P-Asserted-Identity	Accept-Language
VA_01	operator, language French	Operator	fr
VA_02	operator, language English	Operator	en
VA_03	operator, language German	Operator	de
VA_04	operator, language Russian	Operator	ru
VA_05	operator, language Spanish	Operator	es
VA_06	ordinary calling subscriber	Ordinary	
VA_07	Test call	Test	
VA_08	Payphone	Payphone	
VA_09	calling party's category unknown at this time	Unknown	
VA_10	mobile terminal located in the home PLMN	mobile-hplmn	
VA_11	mobile terminal located in a visited PLMN	mobile-vplmn	

TP number	TP_201_030	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.4
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_INVITE/	
Selection criteria	PICS 6.2.1/8		
Test Purpose name	HOP counter procedure suppo	rted	
Test Purpose	Ensure that on receipt of the H	OP counter parameter, the val	ue is mapped into the
	Max-Forwards header. The val	ue of the Max-Forwards heade	er is created from the HOP
	counter value by applying a give	ven factor	
ISUP Parameter values	IAM: HOP		
SIP Parameter values	INVITE: Max-Forwards		
Comments	The factor used to map from H		
	call origin, and will be provision rules, and bilateral agreement.		network topology, trust domain
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	, ,	<b>←</b>	100 Trying
	Apply post test routine		

TP number	TP_201_031	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.5	
TSS reference	SIP-I - SIP NNI/Basic	call/Sending_of_INVITE/		
Selection criteria				
Test Purpose name	The O-MGCF inserts	an IMS Communication Service	e Identifier	
Test Purpose		For speech and video calls, the SUT shall insert an IMS Communication Service Identifier, indicating the IMS Multimedia Telephony Communication Service		
ISUP Parameter values	Ŭ			
SIP Parameter values	INVITE: Contact: ics	si-ref		
	Accept-Cor	ntact:		
	P-Asserte	d-Service: urn:urn-7:3gpp-ser	vice.ims.icsi.mmtel	
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
			<ul><li>100 Trying</li></ul>	
		Apply post test ro	outine	

TP number	TP_201_032	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.6	
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Support of P-Early-Media head	ler		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM a P-Early-Media header is			
	present in the sent INVITE req	uest		
ISUP Parameter values				
SIP Parameter values	INVITE: P-Early-Media: supp	oorted		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

TP number	TP_201_033	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_INVITE/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of High Layer Compa	tibility IE into PSTN XML High	LayerCompatibility	
Test Purpose	present containing a High Laye	Ensure stat on receipt of an INVITE with encapsulated IAM and an ATP parameter is present containing a High Layer Compatibility IE a PSTN XML HighLayerCompatibility		
	element is present derived acc	ording the HLC_VA as indicat	ed in table 6.1.2.1-4	
ISUP Parameter values	IAM:			
	ATP High Layer Compatibility			
	High Layer Characterist	tics=HLC_VA		
SIP Parameter values	INVITE:			
	PSTN XML MIME body			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMethod	l>01<		
	HLOctet4			
	HighLayerCharacter	ristics>HLC_VA<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		<b>+</b>	100 Trying	
		Apply post test routine		

Table 6.1.2.1-4: Mapping of ISUP ATP High layer compatibility into PSTN XML HighLayerCharacteristic

HLC_VA	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or interworking units	'0110011'
HLC_VA_7	Telex service	'0110101'
HLC_VA_8	FTAM application	'1000010'

TP number	TP_201_034	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Low Layer Compat	ibility IE into PSTN XML LowLa	ayerCompatibility	
Test Purpose	Ensure stat on receipt of an IN'	VITE with encapsulated IAM a	nd an ATP parameter is	
	present containing a Low Layer			
	element is present derived acc	ording the ITC_VA as indicated	d in table 6.1.2.1-5	
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	ability=ITC_VA		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding=</th <th colspan="3"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?		
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00<			
	InformationTransferCapability>ITC_VA<			
	LLOctet4>			
	TransferMode>00<			
	InformationTransferI	Rate>10000<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

Table 6.1.2.1-5: Mapping of ISUP ATP Low Layer Compatibility into PSTN XML LowLayerCompatibility

ITC_VA	LLC Information transfer capability	XML LLC InformationTransferCapability
ITC_VA_1	Speech	'00000'
ITC_VA_2	3,1 kHz audio	'10000'
ITC_VA_3	Unrestricted digital info	'01001'
ITC VA 4	7 kHz audio	'10001'

TP number	TP 201 035	Reference	[1], clause 7.3.1	
	1		[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Mapping of Bearer Capability I	Mapping of Bearer Capability IE into PSTN XML BearerCapability		
Test Purpose	Ensure stat on receipt of an IN	Ensure stat on receipt of an INVITE with encapsulated IAM and an USI parameter is		
	present ,a PSTN XML Bearer0	Capability element is present of	derived according the	
	ITC_value as indicated in table	6.1.2.1-6	_	
ISUP Parameter values	IAM:			
	USI			
	Information Transfer Ca	apability= <b>ITC_value</b>		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding=</th <th colspan="3"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?		
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransfer	Capability>ITC_value<		
	BCoctet4			
	TransferMode>00<			
	InformationTransfer	Rate>10000<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>+</b>	100 Trying	
		Apply post test routine		

Table 6.1.2.1-6: Mapping of ISUP User Service Information into PSTN XML BearerCapability

ITC_value	USI Information transfer capability	XML InformationTransferCapability
VA_01	Speech	'00000'
VA_02	3,1 kHz audio	'10000'
VA_03	unrestricted digital information	'01000'

TP number	TP_201_036	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.7
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_INVITE/	16 2'
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/2	22	
Test Purpose name	Mapping of ISUP UTI paramete	er into PSTN XML BearerCapa	bility
Test Purpose	Ensure stat on receipt of an IN		
	Information parameter is prese		
	derived according the HLC_val	lue as indicated in table 6.1.2.1	-7
ISUP Parameter values	IAM: UTI		
	High Layer Characte	eristics> <b>HLC_value</b>	
SIP Parameter values	INVITE:		
	PSTN XML MIME body		
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	HighLayerCompatibility		
	HLOctet3		
	CodingStandard>00<		
	Interpretation>100<		
	PresentationMethod	>01<	
	HLOctet4		
_	HighLayerCharacter	istics>HLC_value<	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

Table 6.1.2.1-7: Mapping of User Teleservice Information into PSTN XML HighLayerCharacteristic

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
V/A 04		1000001
VA_01	Telephony	'000001'
VA_02	Facsimile Group 2/3	'0000100'
VA_03	Facsimile Group 4 Class I	'0100001'
VA_04	Facsimile service Group 4, Classes II and III	'0100100'
VA_05	Syntax based Videotex	'0110010'
VA_06	International Videotex interworking via	'0110011'
	gateways or interworking units	
VA_07	Telex service	'0110101'
VA_08	FTAM application	'1000010'
VA_09	Videotelephony	'1100000'

TP number	TP_201_037	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.8
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Forward call indicate	tor into PSTN XML ProgressIn	dicator
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM th	ne ISDN User Part indicator
	and the ISDN access indicator		
	ProgressIndicator element acco	ording the roles PI_value in tab	ole 6.1.2.1-8
ISUP Parameter values	IAM: Forward call indicator		
	ISDN User Part indic	cator	
	ISDN access indicat	or	
SIP Parameter values	INVITE:		
	PSTM XML MIME body		
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	ProgressIndicator		
	ProgressOctet3		
	CodingStandard>00	<	
	Location>yyyy<		
	ProgressOctet4		
	ProgressDescription	>PI_value<	
Comments	The Progress indicator value 6	is not specified in Q.931	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

Table 6.1.2.1-8: Mapping of Forward call indicator into PSTN XML ProgressIndicator

Pl_value	Forward call indicators parameter		PSTN XML body with Progress indicator No	
	ISDN User Part indicator	ISDN access indicator		
VA_01	0 (ISDN User Part not used all the way)		'000001'	Call is not end-to-end ISDN; further call progress information may be available in-band
VA_02	1 ("ISDN User Part used all the way")	0 ("originating access non - ISDN")	'0000011'	Origination address is non-ISDN
VA_03	1 ("ISDN User Part used all the way")	1 ("originating access ISDN")	'0000110'	

TP number	TP_201_038	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.7		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_INVITE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Progress Indicator IE into PSTN XML ProgressIndicator				
Test Purpose	Ensure stat on receipt of an INVITE with encapsulated IAM and an ATP parameter is				
	present containing a Progress Indicator IE a PSTN XML ProgressIndicator element is				
	present derived according the PI_VA as indicated in table 6.1.2.1-9				
ISUP Parameter values	IAM:				
	ATP Progress Indicator				
	Progress Description=PI_VA				
SIP Parameter values					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	Location>0000<				
	ProgressOctet4				
	ProgressDescription>PI_VA<				
Comments					
Message flows	SIP-I-	MGCF	SIP NNI		
_	INVITE (IAM) →	<b>→</b>	INVITE		
	, ,	<b>←</b>	100 Trying		
	Apply post test routine				

Table 6.1.2.1-9: Mapping of ISUP ATP Progress Indicator into PSTN XML ProgressIndicator

PI_VA	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'000001'
PI_VA_2	Destination address is non-ISDN	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_201_039	Reference	[1], clause 7.3.1		
TCC voterous	CID I CID NINII/Dania anii/Can	diam of IND/ITE/	[2], clause 7.2.3.2.2A1.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	aing_or_invite/			
Selection criteria	PICS 6.2.2/1				
Test Purpose name	Number Portability Separate D				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Called Directory Number is present Nature of address indicator: "Network routing number in national (significant) number format" or "National (significant) number" or "Network routing number in network specific number format", an INVITE us sent The userpart of the request URI is derived from the Called Directory Number. '+CC' is inserted before the digitstring:  The rn parameter of the request URI is derived from the Called Party Number. '+CC' is inserted before the digitstring  The npdi URI parameter is added to the request URI The userpart of the To header field is derived from the Called Directory Number. '+CC' is inserted before the digitstring:  The rn parameter of the request URI is derived from the Called Party Number. '+CC'				
	is inserted before the digitstring  The npdi URI parameter is added to the request URI				
ISUP Parameter values	IAM: Called party number "National (significant) number" Called Directory Number Nature of address indicator: "Network routing number in national (significant) number format" or "National (significant) number" or "Network routing number in network specific number format"				
SIP Parameter values  Comments	INVITE: Request line <+CC Called Directory Number>; rn= +CC Called party number;npdi To: <+CC Called Directory Number>; rn= +CC Called party number;npdi				
	SIP-	MGCF	SIP NNI		
Message flows	INVITE (IAM) →	Apply post test routine	INVITE 100 Trying		

TP number	TP 201 040	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.2A1.2			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/				
Selection criteria	PICS 6.2.2/2					
Test Purpose name	Number Portability Concatenate	ed Addressing Method is used				
Test Purpose	Ensure that on receipt of an IN'					
	Number is not present, the Nat					
	set to: "Network routing numbe		ectory number" or "National			
	(significant) number", an INVIT					
	The userpart of the request U					
	representing the Portability rou	ting number is removed. '+CC'	is inserted before the			
	digitstring:					
		equest URI is derived from the				
		esenting the Portability Routing	g Number are removed from			
	the digitstring. '+CC' is inse					
	The npdi URI parameter is added to the request URI					
	The userpart of the <b>To header</b> field is derived from the Called Party Number- the prefix					
	representing the Portability routing number is removed. '+CC' is inserted before the					
	digitstring:					
	The rn parameter of the request URI is derived from the Called Party Number. The					
		digits follow the prefix representing the Portability Routing Number are removed from				
	the digitstring. '+CC' is inserted before the digitstring					
	The <b>npdi</b> URI parameter is added to the <b>request URI</b>					
ISUP Parameter values	IAM: Called party number					
	Nature of address indicator:					
	"Network routing number concatenated with called directory number" or					
OID D	"National (significant) number"					
SIP Parameter values	INVITE: Request line <+CC Called Party Number>; rn= <+CC Portability Routing					
	Number>;npdi To: <+CC Called Party Number>; rn= <+CC Portability Routing Number>;npdi					
Comments	10: <+CC Called Pa	ny number>; m= <+CC Poπai	bility Kouting Number>;npal			
	SIP-I	MGCF	SIP NNI			
Message flows			_			
	INVITE (IAM) →	<b>→</b>	INVITE			
		Apply post tost routing	100 Trying			
		Apply post test routine				

TP number	TP_201_041	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.2A1.3			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/				
Selection criteria	PICS 6.2.2/3					
Test Purpose name	Number Portability Separate N					
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM a	and the Network Routing			
	Number is present Nature of a					
	(significant) number format" or	"Network routing number in ne	etwork specific number			
	format", an INVITE us sent	<b>51</b> : 1 : 16	2 ( )			
	The userpart of the request U	RI is derived from the Called I	Party Number. +CC is			
	inserted before the digitstring:	annual LIDI is also as al force the	- Natural Davis - North			
		equest URI is derived from the	e Network Routing Number.			
	'+CC' is inserted before the					
	The userpart of the <b>To header</b>	s added to the request URI	d Barty Number 1, CC1 is			
		neid is derived from the Caller	d Party Number. +CC is			
	inserted before the digitstring:  The rn parameter of the request URI is derived from the Network Routing Number.					
	'+CC' is inserted before the digitstring					
	The <b>npdi</b> URI parameter is added to the <b>request URI</b>					
ISUP Parameter values		ational (significant) number"				
loor rarameter values	Network Routing Number					
	Nature of address indicator:					
	"Network routing number in national (significant) number format" or					
	"National (significant) number" or					
	"Network routing number in network specific number format"					
SIP Parameter values	INVITE: Request line <+CC Called Party Number>; rn= <+CC Network Routing					
	Number>;npdi					
	To: <+CC Called Pa	rty Number>; rn= <+CC Netwo	ork Routing Number>;npdi			
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
	← 100 Trying					
		Apply post test routine				

TP number	TP_201_042	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2B.1		
TSS reference	SIP-I - SIP NNI/Basic call	/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/5 AND PICS 6	6.2.2/8			
Test Purpose name	Mapping of ISUP carrier s	selection information into 'c	lai' URI parameter		
Test Purpose			ork Selection parameter is present, the		
			sent in the cic URI parameter of the		
	Request URI of the sent	INVITE request			
ISUP Parameter values	IAM: Transit Network Selection				
SIP Parameter values	INVITE: Request URI sip: <called number;cic="TNS" party="" th="" value<=""></called>				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE		
			← 100 Trying		
	Apply post test routine				

TP number	TP_201_042	Reference	[2], clause 7.2.3.2.2.8			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/				
Selection criteria	PICS 6.2.2/5 AND PICS 6.2.2/9	9				
Test Purpose name	Mapping of ISUP carrier selecti	on information into 'dai' URI pa	arameter			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a carrier selection information parameter is present, the value of the carrier selection information parameter is sent in the <b>dai</b> URI parameter of the <b>Request URI</b> of the sent INVITE request as indicated in table 6.1.2.1-10					
ISUP Parameter values	IAM: Transit Network Selection	on				
SIP Parameter values	INVITE: Request URI sip: <called number;dai="SIP_dai&lt;/th" party=""></called>					
Comments						
Message flows	SIP-I MGCF SIP NNI					
	IAM → INVITE					
	← 100 Trying					
		Apply post test routine				

Table 6.1.2.1-10: Mapping of ISUP Carrier Selection Information to SIP Dial Around Indicator

SIP_dai	ISUP Carrier Selection Information parameter	SIP "dai=" component
SIP_dai_VA_01	'no indication' (0000000)	'no ind'
SIP_dai_VA_02	'selected carrier identification code pre-subscribed and no input by calling party' (00000001)	"presub"
SIP_dai_VA_03	selected carrier identification code presubscribed and input by calling party (00000010)	"presub-da"
SIP_dai_VA_04	selected carrier identification pre-subscribed and input by calling party undetermined (00000011)	"presub-daUnkwn"
SIP_dai_VA_05	selected carrier identification not pre-subscribed, and input by calling party (00000100)	"da"
SIP_dai_VA_06	carrier selected by input from calling party (00001010)	"presubUnkwn-da"
SIP_dai_VA_07	carrier selected by a network operator (00001011)	"operator"

## 6.1.2.2 Updating Precondition Information

TP number	TP_202_001	R	eference	[1], clause 7.3.4	
TSS reference	SIP-I - SIP NNI /Basic o	all/ Upda	ting Precondition Inform	mation /	
Selection criteria	PICS 7.2.1/3		<u> </u>		
Test Purpose name	Update received after II	NVITE wa	s sent		
Test Purpose	For each early SIP dialogue for which a provisional response has been received from the succeeding node indicating support for preconditions the MGCF, using an UPDATE or a PRACK request, shall send a confirmation that all the required preconditions have been met. This applies regardless of whether the early SIP dialogue existed prior to the preconditions being met or is subsequently created.				
ISUP Parameter values	processament semigrine		ooquoy o.ou.ou.		
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
	100 Trying	<b>←</b>	<b>←</b>	100 Trying	
	183 Session Progress	<b>←</b>	+	183 Session Progress	
	PRACK	<b>→</b>	<b>→</b>	PRACK	
	200 OK (PRACK)	<b>←</b>	<b>←</b>	200 OK (PRACK)	
	UPDATE	<b>→</b>	<b>→</b>	UPDATE	
	200 OK(UPDATE)	<b>←</b>	<b>←</b>	200 OK(UPDATE)	
			Apply post test routi	ne	

TP number	TP_202_002		Reference	[1], clause 7.3.1		
				[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/					
Selection criteria						
Test Purpose name	Mapping of unsuccessfu					
Test Purpose				from the succeeding IMS node as a		
				request or to the PRACK request.		
				eption of the 580 Precondition		
				Il release the call with REL to the SIP-I based circuit-switched		
				essage into the 480 Temporarily		
				cuit-switched 3GPP core network.		
ISUP Parameter values	REL: 127 (interworking			call switched oct i core network.		
SIP Parameter values	SIP_Response	, uop c	·············			
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
	100 Trying	<b>←</b>	<b>←</b>	100 Trying		
	183 Session Progress	<b>←</b>	<b>←</b>	183 Session Progress		
	Case A					
	PRACK	<b>→</b>	<b>→</b>	PRACK		
	200 OK (PRACK)	+	<del>(</del>	200 OK (PRACK)		
	480 Temporarily	<b>←</b>	+	580 Precondition failure		
	unavailable (127-					
	interworking unspecified) (REL)					
	ACK (RLC)	<b>→</b>	<b>→</b>	ACK		
	ACK (KLC)	7	7	ACK		
	Case B					
	PRACK	<b>→</b>	<b>→</b>	PRACK		
	200 OK (PRACK)	<b>←</b>	<del>-</del>	200 OK (PRACK)		
	UPDATE	<b>→</b>	<b>→</b>	UPDATE		
	200 OK(UPDATE)	←	<b>←</b>	200 OK(UPDATE)		
	,			,		
	480 Temporarily	←	+	580 Precondition failure		
	unavailable (127-					
	interworking					
	unspecified) (REL)		-	1016		
	ACK (RLC)	<b>→</b>	<b>→</b>	ACK		

## 6.1.2.3 Sending of ACM and awaiting answer indication

TP number	TP_203_001	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.4			
TSS reference	SIP-I - SIP NNI/Basic ca	all/Sending_of_18x with enca	apsulated ACM/			
Selection criteria						
Test Purpose name		ress signalling by the expiry				
Test Purpose			address signalling information was us indicator is set to 'no indication'			
ISUP Parameter values		atus indicator=no indication				
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE ( IAM)	<b>→</b>				
	484 Address	<b>←</b>				
	Incomplete(1)					
	ACK	<b>→</b>				
	7.5.1	_				
		Ti/w1 running				
	INVITE (SAM)	→				
	484 Address	<b>É</b>				
	Incomplete(1)					
	ACK	<b>→</b>				
	1.2	Ti/w1 running				
	INVITE (SAM)	<b>→</b>				
	484 Address	<b>←</b>				
	Incomplete(1)					
	ACK	<b>→</b>				
	Ti/w1 running					
	180 Session Progress (ACM no indication)	← Ti/w1 expired				
			→ INVITE			
			← 100 Trying			
	Apply post test routine					

TD	TD 000 000		Deference	[4]   704
TP number	TP_203_002		Reference	[1], clause 7.3.1
				[2], clause 7.2.3.2.4
TSS reference	SIP-I - SIP NNI/Basic	call/Se	nding_of_18x with encaps	ulated ACM/
Selection criteria				
Test Purpose name	An ACM is sent after a	a 180 F	Ringing was received	
Test Purpose	Ensure that on receipt	of a 1	80 Ringing provisional resp	oonse without P-Early-Media
•				atus indicator is set to 'subscriber
	free'. The ringing tone			
ISUP Parameter values	ACM: Called party's	status i	ndicator =subscriber free	
SIP Parameter values				
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	→	<b>→</b>	INVITE
	, ,		<b>←</b>	100 Trying
	180 Ringing (ACM)	<b>←</b>	<b>←</b>	180 Ringing
		<b>←</b>	Ringing tone	0 0
	Apply post test routine			

TP number	TP_203_003	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.4			
TSS reference	SIP-I - SIP NNI/Basic call/	Sending_of_18x with enca	apsulated ACM/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	180 received, a P-Early-M					
Test Purpose	Ensure that on receipt of a 180 Ringing provisional response with P-Early-Media header does not authorize the backward early media, the SUT sends an ACM. The Called party's status indicator is set to 'subscriber free'. The ringing tone is sent by the SUT					
ISUP Parameter values	ACM: Called party's statu	s indicator =subscriber fre	е			
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	•	→ INVITE			
	100 Trying	<b>(-</b>	← 100 Trying			
	180 Ringing (ACM)	<del>(</del>	← 180 Ringing			
		Ringing tone Apply post test ro	putine			

TP number	TP_203_004	R	eference	[1], clause 7.3.1			
				[2], clause 7.2.3.2.4			
TSS reference	SIP-I - SIP NNI/Basi	c call/Sendin	g_of_18x with encapsu	ulated ACM/			
Selection criteria	PICS 6.2.1/9 AND P	ICS 6.2.1/14					
Test Purpose name	180 received, a P-Ea	arly-Media he	eader not authorize ear	ly media is present			
Test Purpose	Ensure that on recei	pt of a 180 R	inging provisional resp	onse with P-Early-Media header			
	does not authorize tl	he backward	early media, the SUT	sends an ACM. The Called party's			
	status indicator is se	t to 'subscrib	er free'. Based on loca	Il knowledge that the call is			
	transited to a PSTN	network the	SUT does not generate	e the awaiting answer indication.			
ISUP Parameter values	ACM: Called party's	s status indica	ator =subscriber free	-			
SIP Parameter values	180						
	P-Early-Media: ir	nactive					
	180 (ACM)						
Comments							
Message flows	SIP-I		MGCF	SIP NNI			
	INVITE (IAM)	→	<b>→</b>	INVITE			
	, ,		<b>←</b>	100 Trying			
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing			
	(ACM - free)						
	← Early media						
			Apply post test routi	ne .			

TP number	TP_203_005	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.4			
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsเ	ulated ACM/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	181 received, a P-Early-Media	header authorize early m	nedia is present			
Test Purpose			and a P-Early-Media is present			
			Called party's status indicator is			
	set to 'no indication' and an op-		·			
			propriate pattern is now available'.			
	The SUT does not generate the		tion			
ISUP Parameter values	ACM: Called party's status in					
		tion or appropriate patter	n is now available			
SIP Parameter values	181					
	P-Early-Media: sendonly					
	181 (ACM)					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	181 Call is Being ←	<b>←</b>	181 Call is Being Forwarded			
	Forwarded					
	(ACM no indication)					
	<b>←</b>	<b>←</b>	Early media			
		Apply post test routi	ne			

TP number	TP_203_006	R	Reference	[1], clause 7.3.1	
				[2], clause 7.2.3.2.4	
TSS reference	SIP-I - SIP NNI/Basic cal	I/Sendin	g_of_18x with encapsu	ulated ACM/	
Selection criteria	PICS 6.2.1/9				
Test Purpose name	183 received, a P-Early-N	Media he	eader authorize early m	nedia is present	
Test Purpose	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present authorizing backward early media, an ACM is sent. The Called party's status indicator is set to 'no indication' and an optional backward call indicator is present, the In-band information indicator is set to 'in-band information or appropriate pattern is now available'. The SUT does not generate the awaiting answer indication				
ISUP Parameter values	ACM: Called party's stat oBCi = in-band inf		ator =no indication n or appropriate patterr	n is now available	
SIP Parameter values	183 P-Early-Media: sendo 183 (ACM)	only			
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
		_	<del>(</del>	100 Trying	
	183 Session Progress (ACM no indication)	<b>←</b>	+	183 Session Progress	
		<b>←</b>	<b>←</b>	Early media	
			Apply post test routing	ne	

TP number	TP_203_007		Reference		[1], clau	use 7.3.1
					[2], clau	use 7.2.3.2.4
TSS reference	SIP-I - SIP NNI/Basic ca	all/Se	nding_of_18x with	encaps	ulated ACM/	
Selection criteria						
Test Purpose name	ACM is sent after T i/w2	was	expired			
Test Purpose	Ensure that after expiry is set to 'no indication'	of tin	ner T i/w2 an ACM i	s sent.	The Called pa	rty's status indicator
ISUP Parameter values	ACM: Called party's sta	atus i	ndicator =no indicat	tion		
SIP Parameter values						
Comments						
Message flows	SIP-I		MGCF			SIP NNI
_	INVITE (IAM)	<b>→</b>	T i/w2 started	<b>→</b>	INVITE 100 Trying	
	183 Session Progress (ACM no indication)	<b>←</b>	T i/w2 expired			
	Apply post test routine					

TP number	TP_203_008	Ref	erence	[1], clause 7.3.1	
				[2], clause 7.2.3.2.4	
TSS reference	SIP-I - SIP NNI/Bas	ic call/Sending_	of_18x with encaps	ulated ACM/	
Selection criteria	PICS 6.2.1/15				
Test Purpose name	MGW plays out ear	ly media associa	ated with the Alert-In	nfo header	
Test Purpose				ith the URL in an Alert-Info header	
	contained in a recei	ved 180 Ringing	g response		
ISUP Parameter values					
SIP Parameter values	180: Alert-Info: <	Media resource	URL>		
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
	, ,		<b>←</b>	100 Trying	
	180 Ringing (ACM free)	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

TP number	TP_203_009	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.4		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsul	ated ACM/		
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/	17			
Test Purpose name	The SUT terminates the sendir	ng of awaiting answer indic	cation.		
Test Purpose			answer indication as indicated in a		
			ne P-Early-Media header does not		
	authorizes backward early med	lia. The sending awaiting a	answer indication is disabled.		
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: inactive				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Γi/w2 started →	INVITE		
		<b>←</b>	100 Trying		
	183 Session Progress ← (ACM no indication)	Γi/w2 expired			
	Ringing tone				
	← 183 Session Progress				
	Apply post test routine				

TP number	TP_203_010	R	Reference	[1], clause 7.3.1	
				[2], clause 7.2.3.2.4	
TSS reference	SIP-I - SIP NNI/Basic cal	II/Sendir	ng_of_18x with encaps	sulated ACM/	
Selection criteria	PICS 6.2.1/9 AND PICS	6.2.1/16	3		
Test Purpose name	The SUT initiates the ser	nding of	awaiting answer indica	ation	
Test Purpose	Ensure that the SUT initial	ates the	sending of awaiting a	nswer indication as indicated in a	
	P-Early-Media received i	in a 183	Session Progress and	the P-Early-Media header	
	authorizes backward ear	ly media	a		
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: send	donly			
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
			+	100 Trying	
	183 Session Progress	<b>←</b>	<b>+</b>	183 Session Progress	
	(ACM)			<b>G</b>	
		<b>←</b>	<b>←</b>	Early media	
	Apply post test routine				

TP number	TP_203_011	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsulate	ed ACM/		
Selection criteria					
Test Purpose name	180 received, coding of Backwa	ard call indicator in ACM TM	IR speech or 3,1 kHz audio		
Test Purpose	INVITE with encapsulated IAM	with Transmission Medium	Requirement indicator=speech		
	or 3,1 kHz received. Ensure that	at on receipt of a 180 Ringin	g response, an ACM is sent and		
	the Backward call indicator is s	et to the following values:			
	<ul> <li>Charge indicator = charge</li> </ul>	(10)			
	<ul> <li>Called party's status indicated</li> </ul>	tor = subscriber free (01)			
	<ul> <li>Called party's category ind</li> </ul>	icator = no indication (00)			
	<ul> <li>End-to-end method indicat</li> </ul>	or = no end-to-end method a	available (00)		
	<ul> <li>Interworking indicator = int</li> </ul>	erworking encountered (1)			
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>				
	<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>				
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>				
	Echo control device indicator = incoming echo control device included (1)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b> IN	IVITE		
		<b>←</b> 10	00 Trying		
	180 Ringing (ACM) ←	<b>←</b> 18	30 Ringing		
		Apply post test routine			

TP number	TP_203_012	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsula	ated ACM/		
Selection criteria					
Test Purpose name	181 received, coding of Backw	ard call indicator in ACM T	MR speech or 3,1 kHz audio		
Test Purpose	INVITE with encapsulated IAM	with Transmission Mediun	n Requirement indicator=speech		
	or 3,1 kHz received. Ensure th	at on receipt of a 181 Call i	is Being forwarded response, an		
	ACM is sent and the Backward	I call indicator is set to the	following values:		
	<ul> <li>Charge indicator = charge</li> </ul>	(10)	-		
	<ul> <li>Called party's status indicate</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category inc</li> </ul>	* *			
		tor = no end-to-end method	d available (00)		
		terworking encountered (1)	` '		
	_	• • • • • • • • • • • • • • • • • • • •			
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>				
	ISDN access indicator = terminating access non-ISDN (0)				
		•	` '		
ISUP Parameter values	Echo control device indicator = incoming echo control device included (1)  IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
SIP Parameter values	IAWI. Transmission Medium i	requirement malcator=spe	ecit of 3,1 KHZ		
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
wiessage nows			INVITE		
	INVITE (IAM) →		=		
	101 0 11: D:		100 Trying		
	181 Call is Being ←	+	181 Call is Being forwarded		
	forwarded				
	(ACM)				
	Apply post test routine				

TP number	TP 203 013	Reference	[1], clause 7.3.1		
Tr Humber	11 _200_010	TCTCTCTIOC	[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 18x with encapsu			
Selection criteria	PICS 6.2.1/9 AND NOT PICS 6	•	nated / terri		
Test Purpose name	183 received, coding of Backwa		TMR speech or 3.1 kHz audio		
Test Purpose		with Transmission Mediu	m Requirement indicator=speech		
	P-Early-Media header, an ACM	I is sent and the Backwar	d call indicator is set to the		
	following values:				
	<ul> <li>Charge indicator = charge</li> </ul>				
	<ul> <li>Called party's status indicated</li> </ul>				
	<ul> <li>Called party's category ind</li> </ul>				
	<ul> <li>End-to-end method indicat</li> </ul>	or = no end-to-end metho	od available (00)		
	<ul> <li>Interworking indicator = int</li> </ul>	erworking encountered (1	1)		
	<ul> <li>End-to-end information ind</li> </ul>	icator = no end-to-end inf	formation available (0)		
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>				
	<ul> <li>Echo control device indicator = incoming echo control device included (1)</li> </ul>				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
SIP Parameter values	183: P-Early-Media: sendonly				
	183 (ACM)				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	183 Session Progress ← (ACM)	<b>←</b>	183 Session Progress		
		Apply post test routing	ne		

TP number	TP_203_014	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.5.1			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsula	ated ACM/			
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6	5.2.1/18				
Test Purpose name	180 received, coding of Backwa	ard call indicator in ACM T	MR 64 kBit/s unrestricted			
Test Purpose	INVITE with encapsulated IAM	with Transmission Mediun	n Requirement indicator=64 kBit/s			
	unrestricted received. Ensure t	hat on receipt of a 180 Rin	ging response, an ACM is sent			
	and the Backward call indicator	r is set to the following valu	ues:			
	<ul> <li>Charge indicator = charge</li> </ul>	(10)				
	<ul> <li>Called party's status indicate</li> </ul>	ator = subscriber free (01)				
	<ul> <li>Called party's category ind</li> </ul>					
	<ul> <li>End-to-end method indicat</li> </ul>	* *	d available (00)			
	<ul> <li>Interworking indicator = int</li> </ul>		* *			
	G	End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)					
	ISDN access indicator = terminating access non-ISDN (0)					
	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
_	INVITE (IAM) →	<b>→</b>	INVITE			
	, ,	<b>←</b>	100 Trying			
	180 Ringing (ACM) ←		180 Ringing			
		Apply post test routing	0 0			

TP number	TP_203_015	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsula	ated ACM/		
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18			
Test Purpose name	181 received, coding of Backw	ard call indicator in ACM T	MR 64 kBit/s unrestricted		
Test Purpose	INVITE with encapsulated IAM	with Transmission Mediun	n Requirement indicator=64 kBit/s		
			I is Being forwarded response, an		
	ACM is sent and the Backward	I call indicator is set to the	following values:		
	<ul> <li>Charge indicator = charge</li> </ul>	(10)			
	<ul> <li>Called party's status indicate</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category inc</li> </ul>	dicator = no indication (00)			
	<ul> <li>End-to-end method indica</li> </ul>	tor = no end-to-end method	d available (00)		
	<ul> <li>Interworking indicator = in</li> </ul>	terworking encountered (1)			
	<ul> <li>End-to-end information inc</li> </ul>	dicator = no end-to-end info	ormation available (0)		
	<ul> <li>ISDN user part/BICC indic</li> </ul>	ator = ISDN user part not u	used all the way (0)		
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	181 Call is Being ←	<b>←</b>	181 Call is Being forwarded		
	forwarded (ACM)		-		
		Apply post test routing	9		

TP number	TP_203_016	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsul	ated ACM/		
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6	5.2.1/18 AND PICS 6.2.1/9	9		
Test Purpose name	183 received, coding of Backwa	ard call indicator in ACM T	TMR 64 kBit/s unrestricted		
Test Purpose	INVITE with encapsulated IAM	with Transmission Mediur	m Requirement indicator=64 kBit/s		
	unrestricted received. Ensure t	hat on receipt of a 183 Se	ssion Progress response, an ACM		
	is sent and the Backward call in	ndicator is set to the follow	ving values:		
	<ul> <li>Charge indicator = charge</li> </ul>	(10)			
	<ul> <li>Called party's status indicate</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category ind</li> </ul>	icator = no indication (00)			
	<ul> <li>End-to-end method indicat</li> </ul>	or = no end-to-end metho	d available (00)		
	<ul> <li>Interworking indicator = int</li> </ul>		` ,		
	<ul> <li>End-to-end information ind</li> </ul>				
	<ul> <li>ISDN user part/BICC indic</li> </ul>		` '		
	<ul> <li>ISDN access indicator = te</li> </ul>				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values	183: P-Early-Media: sendonly	- 4	_		
	183 (ACM)				
Comments	,				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	,	<b>←</b>	100 Trying		
	183 Session Progress ←	<b>←</b>	183 Session Progress		
	(ACM)		3.222		
	<u> </u>	Apply post test routin	e		

TP number	TP_203_017	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.5.1			
TSS reference	SIP-I - SIP NNI/Basic call/Se	nding_of_18x with encaps	ulated ACM/			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.	1/18				
Test Purpose name	180 received, coding of Back	ward call indicator in ACM	TMR 64 kBit/s unrestricted			
Test Purpose			um Requirement indicator=64 kBit/s			
		-	linging response, an ACM is sent			
	and the Backward call indica	tor is set to the following va	alues:			
	<ul> <li>Charge indicator = charge</li> </ul>	, ,				
	<ul> <li>Called party's status ind</li> </ul>	cator = subscriber free (01	)			
		ndicator = no indication (00				
	<ul> <li>End-to-end method indic</li> </ul>	End-to-end method indicator = no end-to-end method available (00)				
	<ul> <li>Interworking indicator =</li> </ul>	<ul> <li>Interworking indicator = no interworking encountered (0)</li> </ul>				
	• End-to-end information indicator = no end-to-end information available (0)					
	• ISDN user part/BICC indicator = <b>ISDN user part used all the way (1)</b>					
	ISDN access indicator = terminating access ISDN (1)					
	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing			
		Apply post test routi	ne			

TP number	TP_203_018	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsula	ated ACM/		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	18			
Test Purpose name	181 received, coding of Backw	ard call indicator in ACM T	MR 64 kBit/s unrestricted		
Test Purpose			n Requirement indicator=64 kBit/s		
			I is Being forwarded response, an		
	ACM is sent and the Backward	call indicator is set to the	following values:		
	<ul> <li>Charge indicator = charge</li> </ul>	(10)			
	<ul> <li>Called party's status indicated</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category inc</li> </ul>	licator = no indication (00)			
	<ul> <li>End-to-end method indicate</li> </ul>	tor = no end-to-end method	d available (00)		
	<ul> <li>Interworking indicator = no</li> </ul>	interworking encounter	ed (0)		
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part used all the way (1)				
	ISDN access indicator = terminating access ISDN (1)				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values		•			
Comments					
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	<b>→</b>	INVITE		
		←	100 Trying		
	181 Call is Being ←	←	181 Call is Being forwarded		
	forwarded (ACM)		-		
		Apply post test routine			

TP number	TP_203_019	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsula	ated ACM/		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/2	18 AND PICS 6.2.1/9			
Test Purpose name	183 received, coding of Backwa	ard call indicator in ACM TI	MR 64 kBit/s unrestricted		
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 183 Session Progress response, an ACM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)				
ISUP Parameter values	Echo control device indicator = incoming echo control device not included (0)  IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
SIP Parameter values	183: P-Early-Media: sendonly 183 (ACM)				
Comments	i se (riem)				
Message flows	SIP-I MGCF SIP NNI				
_	INVITE (IAM) →  183 Session Progress ← (ACM)	<b>←</b> 1	NVITE 100 Trying 183 Session Progress		
	,	Apply post test routine	)		

TP_203_020	Reference	[1], clause 7.3.1	
		[2], clause 7.2.3.2.5.1	
SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsu	ulated ACM/	
180 received, coding of Backw	ard call indicator in ACM	HLC "Facsimile Group 2/3".	
INVITE with encapsulated IAM	with Transmission Mediu	um Requirement indicator=3,1 kHz	
and High Layer Compatibility=	Facsimile Group 2/3 rece	eived. Ensure that on receipt of a	
180 Ringing response, an ACM	I is sent and the Backwar	rd call indicator is set to the	
following values:			
<ul> <li>Charge indicator = charge</li> </ul>	(10)		
<ul> <li>Called party's status indicate</li> </ul>	ator = subscriber free (01)	)	
	•		
End-to-end method indicator = no end-to-end method available (00)			
, ,			
• End-to-end information indicator = no end-to-end information available (0)			
ISDN user part/BICC indicator = ISDN user part not used all the way (0)			
<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>			
Echo control device indicator = incoming echo control device not included (0)			
riigii Layor Companisiin	y - 1 dominio Group 2/0		
SIP-I	MGCF	ISUP	
INVITE (IAM) →	<b>→</b>	INVITE	
,	<del>-</del>	100 Trying	
180 Ringing (ACM) ←		180 Ringing	
	SIP-I - SIP NNI/Basic call/Send  180 received, coding of Backw INVITE with encapsulated IAM and High Layer Compatibility= 180 Ringing response, an ACM following values:  Charge indicator = charge Called party's status indicate Called party's category ince End-to-end method indicate Interworking indicator = intermorking indicator = intermorking indicator = intermorking indicator = termore indicated in the indicator indicated in the indicator indicated in the indicator indi	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated received, coding of Backward call indicator in ACM INVITE with encapsulated IAM with Transmission Mediuand High Layer Compatibility= Facsimile Group 2/3 received Ringing response, an ACM is sent and the Backward following values:  Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end metholinterworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end in ISDN user part/BICC indicator = ISDN user part no ISDN access indicator = terminating access non-IS Echo control device indicator = incoming echo collam: Transmission Medium Requirement indicator=3, High Layer Compatibility= Facsimile Group 2/3  SIP-I MGCF INVITE (IAM)	

TP number	TP_203_021	Reference	[1], clause 7.3.1		
ir number	11 _203_021	Kelefelice	[2], clause 7.3.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/				
	SIP-I - SIP NINI/Basic call/Sen	ding_or_rex with encaps	ulated ACIVI/		
Selection criteria	<u> </u>	<del> </del>			
Test Purpose name	181 received, coding of Backv				
Test Purpose			um Requirement indicator=3,1 kHz		
			eived. Ensure that on receipt of a		
	181 Call is Being forwarded re	sponse, an ACM is sent a	and the Backward call indicator is		
	set to the following values:				
	<ul> <li>Charge indicator = charge</li> </ul>	e (10)			
	<ul> <li>Called party's status indic</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category in</li> </ul>		0)		
	<ul> <li>End-to-end method indicate</li> </ul>				
	<ul> <li>Interworking indicator = ir</li> </ul>				
		•	•		
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>				
	ISDN access indicator = terminating access non-ISDN (0)				
		Echo control device indicator = incoming echo control device not included (0)			
IOUD Deservation and the second					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz				
	High Layer Compatibility= Facsimile Group 2/3				
SIP Parameter values					
Comments					
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	<b>→</b>	INVITE		
		<del>-</del>	100 Trying		
	181 Call is Being ←	<b>←</b>	181 Call is Being forwarded		
	forwarded (ACM)		-		
	, ,	Apply post test routi	ne		

TP number	TP_203_022	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.5.1			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsul	ated ACM/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	183 received, coding of Backw					
Test Purpose	INVITE with encapsulated IAM	with Transmission Mediu	m Requirement indicator=3,1 kHz			
	and High Layer Compatibility=	Facsimile Group 2/3 recei	ved. Ensure that on receipt of a			
	183 Session Progress respons	e, an ACM is sent and the	Backward call indicator is set to			
	the following values:					
	<ul> <li>Charge indicator = charge</li> </ul>	(10)				
	<ul> <li>Called party's status indicate</li> </ul>					
	Called party's category income.					
	<ul> <li>End-to-end method indica</li> </ul>					
	<ul> <li>Interworking indicator = in</li> </ul>					
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>					
	ISDN access indicator = terminating access non-ISDN (0)					
	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz					
loor rarameter values	· ·					
SIP Parameter values	High Layer Compatibility= Facsimile Group 2/3					
Comments						
	SIP-I	MGCE	CID NINI			
Message flows	<b>-</b>					
	INVITE (IAM) →	<del>)</del>	INVITE			
	100 Ossaisa Busansas II	<del>(</del>	100 Trying			
	183 Session Progress ←	+	183 Session Progress			
	(ACM)	A In	_			
	Apply post test routine					

TP number	TP 203 023		Reference		[1], clause 7.3.1	
	11 _200_020				[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic	call/Sandi	ng of 18v with an	rangulate	15 27	
Selection criteria	PICS 6.2.1/5	call/Seriul	rig_oi_ rox with en	icapsulate	SU ACIVI/	
					H. I	
Test Purpose name	Mapping of PSTN XM					
Test Purpose					ProgressIndicator is present,	
	the value 1 is mapped	I into the E	Backward call indic	ator prese	ent in the ACM:	
	ISDN User Part indica	itor				
	<ul> <li>ISDN User Part n</li> </ul>	ot used al	I the way (0)			
ISUP Parameter values	ACM: ISDN User Par					
	ISDN User	Part not	used all the way			
SIP Parameter values	180:	180:				
	xml version="1.0" e</th <th colspan="5"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	ProgressIndicator					
	ProgressOctet					
	ProgressDe		>000001<			
Comments				l: further o	call progress information may	
	be available in-band				,	
Message flows	SIP-I		MGCF		SIP NNI	
3	INVITE (IAM)	<b>→</b>		→ IN	VITE	
	= (,				00 Trying	
	180 Ringing (ACM)	<b>←</b>			30 Ringing	
	100 Kinging (AOM)	•	Apply post tost		o Kinging	
	Apply post test routine					

TP number	TP_203_024	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsu	lated ACM/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 180 into B	ackward call indicator in ACM		
Test Purpose			ML ProgressIndicator is present,		
	the value 2 is mapped into the	Backward call indicator pr	esent in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part used all</li> </ul>	I the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access non</li> </ul>	i-ISDN (0)			
ISUP Parameter values	<b>ACM:</b> ISDN User Part indicate	or			
	ISDN User Part use	ed all the way			
	ISDN access indicator				
	Terminating access	s non-ISDN			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing		
		Apply post test routing	e		

TD	TD 000 005	10			[4]   704
TP number	TP_203_025	R	eference		[1], clause 7.3.1
					[2], clause 7.2.3.2.5.1
TSS reference	SIP-I - SIP NNI/Basic	call/Sendin	<u>ig_of_18x with e</u>	ncapsulated	d ACM/
Selection criteria	PICS 6.2.1/5				
Test Purpose name					ward call indicator in ACM
Test Purpose					ProgressIndicator is present,
	the value 7 is mapped		ackward call indi	cator preser	nt in the ACM:
	ISDN User Part indicate	tor			
	<ul> <li>ISDN User Part</li> </ul>	t used all th	ne way (1)		
	ISDN access indicator				
	<ul> <li>Terminating acceptance</li> </ul>	cess ISDN	(1)		
	Interworking indicator				
	<ul> <li>no interworking</li> </ul>	encounter	red (0)		
ISUP Parameter values	ACM: ISDN User Part	t indicator			
	ISDN User	Part used	all the way		
	ISDN access in				
	Terminatin	g access I	SDN		
	Interworking indicator				
	no interworking encountered				
SIP Parameter values	180:				
	xml version="1.0" er</th <th>ncoding="u</th> <th>ıtf-8"?&gt;</th> <th></th> <th></th>	ncoding="u	ıtf-8"?>		
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDe				
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'				
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>		→ INV	'ITE
				<b>←</b> 100	Trying
	180 Ringing (ACM)	<b>←</b>		<b>←</b> 180	Ringing
	Apply post test routine				

TP number	TP_203_026	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsu	lated ACM/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 180 into o	ptional Backward call indicator in		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 8 is mapped into the Optional backward call indicator present in the ACM:  Optional backward call indicators  In-band information indicator  • in-band information or an appropriate pattern is now available				
ISUP Parameter values	ACM: Optional backward call indicators				
	In-band information indicator				
	in-band informat	ion or an appropriate patt	ern is now available		
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0001000<			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP 203 027	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Se	nding_of_18x with encapsu	[ L 2 ·		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.	<u> </u>			
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 1 in 183 into	Backward call indicator in ACM		
Test Purpose			he PSTN XML ProgressIndicator is		
	present, the value 1 is mappe	ed into the Backward call ir	ndicator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part not used</li> </ul>	I all the way (0)			
ISUP Parameter values	ACM: ISDN User Part indica	tor			
	ISDN User Part n	ot used all the way			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments	Progress Information: 'Call is	not end-to-end ISDN: furth	ner call progress information may		
	be available in-band'				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	183 Session Progress ←	<b>←</b>	183 Session Progress		
	(ACM)				
	Apply post test routine				

TP number	TP_203_028	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsu	lated ACM/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 183 into E	Backward call indicator in ACM		
Test Purpose			e PSTN XML ProgressIndicator is		
	present, the value 2 is mapped	into the Backward call in	dicator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part used all</li> </ul>	the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access non</li> </ul>	-ISDN (0)			
ISUP Parameter values	<b>ACM:</b> ISDN User Part indicate	r			
	ISDN User Part use	ed all the way			
	ISDN access indicator				
	Terminating access				
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		+	100 Trying		
	183 Session Progress ←	<b>←</b>	183 Session Progress		
	(ACM)				
	Apply post test routine				

TP number	TP_203_029	Reference	[1], clause 7.3.1		
ir number	17_203_029	Kelefelice	[1], clause 7.3.1 [2], clause 7.2.3.2.5.1		
TSS reference	SID I SID NINI/Pagio call/Sand	ling of 19y with anappa			
Selection criteria	SIP-I - SIP NNI/Basic call/Send		ulated ACIVI/		
	PICS 6.2.1/5 AND PICS 6.2.1/		D		
Test Purpose name		Mapping of PSTN XML ProgressIndicator 7 in 183 into Backward call indicator in ACM			
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is				
		present, the value 7 is mapped into the Backward call indicator present in the ACM:			
	ISDN User Part indicator				
	ISDN User Part used al	I the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access ISE</li> </ul>	DN (1)			
	Interworking indicator				
	<ul> <li>no interworking encoun</li> </ul>				
ISUP Parameter values	ACM: ISDN User Part indicate	••			
	ISDN User Part use	ed all the way			
	ISDN access indicator				
	Terminating access non-ISDN				
	Interworking indicator				
		no interworking encountered			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
_	ProgressDescription				
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	183 Session Progress ←	<b>←</b>	183 Session Progress		
	(ACM)				
	Apply post test routine				

TP number	TP_203_030	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic call/Send		ed ACM/	
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 183 into Bad	ckward call indicator in ACM	
Test Purpose			PSTN XML ProgressIndicator is	
	present, the value 8 is mapped	into the Optional backward	call indicator present in the	
	ACM:			
	Optional backward call indic			
	In-band information indi			
		or an appropriate pattern is	s now available	
ISUP Parameter values	ACM: Optional backward call i			
	In-band information			
		ion or an appropriate patterr	n is now available	
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
_	ProgressDescription			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b> IN	IVITE	
			00 Trying	
	183 Session Progress ←	<b>←</b> 1	83 Session Progress	
	(ACM)			
		Apply post test routine		

TP number	TP_203_031	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.2	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsu	lated ACM/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Mapping of P-Early-Media head	der in 183 into Optional ba	ackward call indicator in ACM	
Test Purpose	Ensure that on receipt of a 183	Session Progress and th	e P-Early-Media header	
	authorizing backward early med	dia is mapped into the Ba	ckward call indicator present in the	
	ACM:			
	Optional backward call indic	cators		
	In-band information indi	cator		
	<ul> <li>in-band information</li> </ul>	or an appropriate pattern	n is now available	
ISUP Parameter values	ACM: Optional backward call indicators			
	In-band information indicator			
	in-band information or an appropriate pattern is now available			
SIP Parameter values	183: P-Early-Media: sendonly	/		
Comments	Progress Information 'In-band in	nformation or an appropri	iate pattern is now available'	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	183 Session Progress ←	<b>←</b>	183 Session Progress	
	(ACM)			
	Apply post test routine			

TP number	TP_203_032	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.2	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsເ	ulated ACM/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Mapping of P-Early-Media hea	der in 181 into Optional b	ackward call indicator in ACM	
Test Purpose	Ensure that on receipt of a 18°	I Call is Being Forwarded	and the P-Early-Media authorizing	
	backward early media is mapp	ed into the Backward call	indicator present in the ACM:	
	Optional backward call indi			
	In-band information ind	icator		
	<ul> <li>in-band information</li> </ul>	n or an appropriate patteri	n is now available	
ISUP Parameter values	ACM: Optional backward call indicators			
	In-band information indicator			
	in-band information or an appropriate pattern is now available			
SIP Parameter values	183: P-Early-Media: sendonly			
Comments	Progress Information 'In-band	information or an appropr	riate pattern is now available'	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	181 Call is Being ←	<b>←</b>	181 Call is Being Forwarded	
	Forwarded (ACM)		-	
	Apply post test routine			

TP number	TP_203_033	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsul	ated ACM/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 180 into th	ne Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,			
	the value 1 is mapped into the	Access Transport Parame	eter containing the Progress	
	Indicator value 1 in the ACM:			
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description</li> </ul>	n='000001'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descrip	otion='0000001'		
SIP Parameter values	180:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>000001<		
Comments	Progress Information: 'Call is no	ot end-to-end ISDN: furthe	er call progress information may	
	be available in-band'		, ,	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing	
	Apply post test routine			

TP number	TP_203_034	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsulation	ated ACM/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 180 into th	e Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 180	Ringing and the PSTN XI	ML ProgressIndicator is present,	
	the value 2 is mapped into the	Access Transport Parame	ter containing the Progress	
	Indicator value 2 in the ACM:			
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description='0</li> </ul>	000010'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descrip	otion='0000010'		
SIP Parameter values	180:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription			
Comments	Progress Information: 'Destination address is non-ISDN'			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing	
		Apply post test routing	<b>e</b>	

TD mumb an	TD 000 005	Deference	[41 -  7.0.4	
TP number	TP_203_035	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsulated	d ACM/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	PSTN XML ProgressIndicator	7 in 180 is not mapped into the	e Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 18	ORinging and the PSTN XML I	ProgressIndicator is present,	
	the value 7 is not mapped into	the Access Transport Parame	eter in the ACM	
ISUP Parameter values	ACM: No Access Transport F	Parameter present		
SIP Parameter values	180:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000111<			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→ INV	ITE	
		<b>←</b> 100	) Trying	
	180 Ringing (ACM) ←	<b>←</b> 180	Ringing	
		Apply post test routine		

TP number	TP_203_036	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 180 into the	Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 180	Ringing and the PSTN XM	L ProgressIndicator is present,	
	the value 8 is mapped into the	Access Transport Paramete	er containing the Progress	
	Indicator value 8 in the ACM:			
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description</li> </ul>	on='0001000'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descrip	otion='0001000'		
SIP Parameter values	180:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	NVITE	
		<b>←</b> 1	00 Trying	
	180 Ringing (ACM) ←	<b>←</b> 1	80 Ringing	
		Apply post test routine		

TP number	TP_203_037	Reference	[1], clause 7.3.1	
	11 _200_007	1.0.0.0.00	[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/5		siated / term	
Test Purpose name			the Access Transport Parameter	
Test Purpose			ne P-Early-Media header and PSTN	
	XML ProgressIndicator is prese			
	Parameter containing the Prog			
	Access Transport Parameter	. seea.sa.e. va.as		
	Progress Indicator			
	<ul> <li>Progress Description</li> </ul>	='000001'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descrip	otion='0000001'		
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>000001<		
Comments	Progress Information: 'Call is n	ot end-to-end ISDN: furth	ner call progress information may	
	be available in-band'			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	183 Session Progress ←	<b>←</b>	183 Session Progress	
	(ACM)			
		Apply post test routi	ne	

TP number	TP_203_038	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9		
Test Purpose name			ne Access Transport Parameter	
Test Purpose			e P-Early-Media header and PSTN	
	XML ProgressIndicator is prese			
	Parameter containing the Prog	ress Indicator value 2 in th	ne ACM:	
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description</li> </ul>	='0000010'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descrip			
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription			
Comments	Progress Information: 'Destinat	ion address is non-ISDN'		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	183 Session Progress ←	<b>←</b>	183 Session Progress	
	(ACM)		<u> </u>	
		Apply post test routin	e	

TP number	TP_203_039	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsu	lated ACM/	
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/	9		
Test Purpose name	PSTN XML ProgressIndicator	7 in 183 is not mapped int	o the Access Transport Parameter	
Test Purpose			e PSTN XML ProgressIndicator is	
	present, the value 7 is not map	ped into the Access Trans	sport Parameter in the ACM	
ISUP Parameter values	<b>ACM:</b> No Access Transport P	arameter present		
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000111<			
Comments	Progress Information: value no	ot specified. Meaning 'term		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	183 Session Progress ← (ACM)	<b>←</b>	183 Session Progress	
	Apply post test routine			

TP number	TP_203_040	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/5	9		
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 183 into tl	he Access Transport Parameter	
Test Purpose			e P-Early-Media header and PSTN	
	XML ProgressIndicator is prese			
	Parameter containing the Prog	ress Indicator value 8 in t	he ACM:	
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description</li> </ul>	on='0001000'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descri			
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>0001000<		
Comments	Progress Information 'In-band information or an appropriate pattern is now available'			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	183 Session Progress ←	<b>←</b>	183 Session Progress	
	(ACM)		3	
		Apply post test routing	ne	

## 6.1.2.4 Sending of the Call Progress message (CPG)

TP number	TP_204_001		Reference		[2], clause 7.2.3.2.6
TSS reference	SIP-I - SIP NNI/Basic ca	II/Ser	nding_of_CPG in e	ncapsul	ated 18x message in encapsulated
	18x message/		-	-	-
Selection criteria					
Test Purpose name	A CPG is sent when a 18	30 is ı	received and a AC	M was s	sent before
Test Purpose	Ensure that on receipt of	a 18	0 Ringing a CPG n	nessage	e in encapsulated 180 message is
	sent when an ACM in en	capsi	ulated 183 messag	e was s	sent before
ISUP Parameter values	ACM: BCi Called party s	status	=no indication		
	CPG: Event indication=	ALEF	RTING		
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>	Ti/w1 started		
	183 Session Progress (ACM)	<b>←</b>	Ti/w1 expired	<b>→</b>	INVITE
				<b>←</b>	100 Trying
	180 Ringing (CPG)	←		<b>←</b>	180 Ringing
			Apply post tes	st routii	ne

TP number	TP_204_002	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic call/S	ending_of_CPG in encapsu	lated 18x message/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	181 received, CPG is sent			
Test Purpose	Ensure that on receipt of a 1	81 Call is Being Forwarded	I a 181 Call is Being Forwarded with	
	encapsulated PG is sent. The	e Event information parame	eter in the CPG is set to 'progress'	
ISUP Parameter values	CPG: Event indication=pro	gress		
SIP Parameter values	181: P-Early-Media: send	only		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing	
	181 Call is Being ←	<b>←</b>	181 Call is Being Forwarded	
	Forwarded (CPG)		•	
	early media		early media	
	Apply post test routine			

TP number	TP_204_003	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/S	Sending_of_CPG in end	apsulated 18x message/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is not authorize	ed if no P-Early-Media I	neader is present in the 180		
Test Purpose	Ensure that on receipt of a 180 Ringing a 180 Ringing with an encapsulated CPG is sent. If the 180 Ringing does not contain a P-Early-Media header authorizing early media, the SUT initiates sending of awaiting answer indication				
ISUP Parameter values					
SIP Parameter values	180: no P-Early-Media he	eader present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ← (ACM)	Ti/w1 expired	→ INVITE		
	180 Ringing ← CPG		← 180 Ringing		
	ringing tone				
	Apply post test routine				

TP number	TP_204_004	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/Se	nding_of_CPG in encaps	ulated 18x message/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is not authorized 180	l if P-Early-Media header	does not authorize early media in the		
Test Purpose	Ensure that on receipt of a 180 Ringing a 180 Ringing with an encapsulated CPG is sent. If the 180 Ringing contains a P-Early-Media header not authorizing early media, the SUT initiates sending of awaiting answer indication				
ISUP Parameter values					
SIP Parameter values	180: P-Early-Media: inactiv	ve			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ← (ACM)	Ti/w1 expired →	INVITE		
	180 Ringing (CPG) ←	<b>←</b>	180 Ringing		
	ringing tone				
	Apply post test routine				

TP number	TD 204 005	Reference	[1] alauga 7.2.1	
i F ilullibei	TP_204_005	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic call/S	ending_of_CPG in encapsu	lated 18x message/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Early media is authorized if	P-Early-Media header author	orize early media in the 180	
Test Purpose			vith an encapsulated CPG is sent. If	
	the 180 Ringing contains a	P-Early-Media header autho	orizing early media, the SUT	
			onnects through the early media in	
	backward direction	ing another indication and of	ormodic unough the early media in	
IOUD D	Dackward direction			
ISUP Parameter values				
SIP Parameter values	180: P-Early-Media: send	only		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITZE (IAM) →	Ti/w1 started		
	183 Session Progress ← (ACM)	Ti/w1 expired →	INVITE	
	180 Ringing (CPG) ← early media	+	180 Ringing <i>early media</i>	
	Apply post test routine			

TP number	TP_204_006		Reference		[1], clause 7.3.1
					[2], clause 7.2.3.2.6
TSS reference	SIP-I - SIP NNI/Basic ca	all/Ser	nding_of_CPG in e	encapsul	ated 18x message/
Selection criteria	PICS 6.2.1/14				
Test Purpose name	The SUT has the knowle	edge 1	that the call is tran	sited to	a PSTN network, the awaiting
	answer indication is not	gene	rated		
Test Purpose					swer indication if it has the local
	<u> </u>	is trar	sited to a PSTN n	etwork a	and the early media is not
	authorized				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>	Ti/w1 started		
	Session Progress (ACM)	<b>←</b>	Ti/w1 expired	<b>→</b>	INVITE
	,			<b>←</b>	100 Trying
	180 Ringing (CPG) early media	<b>←</b>		<b>←</b>	180 Ringing early media
		Apply post test routine			

TP number TP\_204\_007 Reference [1], clause 7.3.1 [2], clause 7.2.3.2.6 SIP-I - SIP NNI/Basic call/Sending\_of\_CPG in encapsulated 18x message/ TSS reference Selection criteria PICS 6.2.1/9 Early media is authorized if P-Early-Media header authorize early media in the 183 Test Purpose name **Test Purpose** Ensure that on receipt of a 183 Session Progress a 183 Session Progress with an encapsulated CPG is sent. If the 183 Session Progress contains a P-Early-Media header authorizing early media, the SUT terminates sending of awaiting answer indication and connects through the early media in backward direction **ISUP Parameter values** SIP Parameter values 183: P-Early-Media: sendonly Comments SIP-I SIP NNI Message flows MGCF INVITE INVITE (IAM) 180 Ringing 180 Ringing (ACM - free) 183 Session Progress 183 Session Progress (CPG) early media early media Apply post test routine

TP number	TP_204_008	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/S	Sending_of_CPG in encapsu	llated 18x message/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is authorized in	P-Early-Media header author	orize early media in the 181		
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded a 181 Call is Being Forwarded with encapsulated CPG is sent. If the 181 Call is Being Forwarded contains a P-Early-Media header authorizing early media, the SUT terminates sending of awaiting answer indication and connects through the early media in backward direction				
ISUP Parameter values					
SIP Parameter values	181: P-Early-Media: send	donly			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	INVITE		
	180 Ringing (ACM) ←	<b>+</b>	180 Ringing		
	181 Call is Being ←	<b>+</b>	181 Call is Being Forwarded		
	Forwarded (CPG)		_		
	early media		early media		
	Apply post test routine				

TP number	TP_204_009	Reference		[1], clause 7.3.1		
				[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basio	call/Sending_of_CPG in e	ncapsulate	ed 18x message/		
Selection criteria	PICS 6.2.1/9					
Test Purpose name	The SUT change the received in 180	authorization of early med	ia as indica	ated in the P-Early-Media		
Test Purpose	through early media i	Ensure that the SUT terminates the sending of awaiting answer indication and connect through early media if the P-Early-Media header indicates authorization in the received 180 Ringing response and early media was not authorized before				
ISUP Parameter values						
SIP Parameter values	183: P-Early-Media	a: inactive				
	180: P-Early-Media	a: sendonly				
Comments						
Message flows	SIP-I	MGCF		SIP NN		
	IAM	<b>→</b>	<b>→</b> II	NVITE		
	ACM	<b>←</b>	<b>←</b> 1	83 Session Progress		
	ringing tone					
	CPG	<b>←</b>	<b>←</b> 1	80 Ringing		
	early media early media					
	Apply post test routine					

TP number	TP 204 010	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call	/Sending_of_CPG in er	ncapsulated 18x message/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	The SUT change the auth received in 180	norization of early media	a as indicated in the P-Early-Media		
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication and removes authorization of early media if the P-Early-Media header indicates <b>no authorization</b> of early media received in the 180 Ringing and early media was authorized before				
ISUP Parameter values	•				
SIP Parameter values	183: P-Early-Media: sei 180: P-Early-Media: ina	-			
Comments	•				
Message flows	183 Session Progress (ACM – no indication)  early media	MGCF → ←	SIP NNI  → INVITE  ← 183 Session Progress  early media  ← 180 Ringing		
	Apply post test routine				

TP number	TP_204_011	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6.1			
TSS reference	SIP-I - SIP NNI/Basic call/S	ending_of_CPG in encapsu	lated 18x message/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2	1/9				
Test Purpose name	Mapping of PSTN XML Prog	ressIndicator 1 in 183 into	ATP in the CPG			
Test Purpose	Ensure that on receipt of a F	STN XML ProgressIndicate	or value 1 in a 183 Session			
	Progress, a 183 Session Progress, a 184 Session Progress, a 184 Session Progress, a 184 Session Progress, a 185 Session Progre	gress with encapsulated C	PG is sent and an Access			
	Transport Parameter is pres	ent containing a Progress I	ndicator #1			
ISUP Parameter values	CPG: Access Transport					
	Progress Indicate	r				
	Progress Des	cription='0000001'				
SIP Parameter values	183: P-Early-Media: sendonly					
	xml version="1.0" encodir</th <th>ıg="utf-8"?&gt;</th> <th></th>	ıg="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescript	on> <b>0000001</b> <				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing			
	183 Session Progress ←	<b>←</b>	183 Session Progress			
	(CPG)					
	Apply post test routine					

TP number	TP 204 012	Reference	[1], clause 7.3.1				
	11 _201_012	1101010100	[2], clause 7.2.3.2.6.1				
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding of CPG in encapsu					
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/						
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 183 into	ATP in the CPG				
Test Purpose	Ensure that on receipt of a PS						
_	Progress, a 183 Session Prog						
	Transport Parameter is preser	it containing a Progress I	ndicator #2				
ISUP Parameter values	CPG: Access Transport	-					
	Progress Indicator						
	Progress Descri	ption='0000010'					
SIP Parameter values	183: P-Early-Media: sendon	ly					
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4	ProgressOctet4					
	ProgressDescription	n> <b>0000010</b> <					
Comments							
Message flows	SIP-I	MGCF	SIP NNI				
	INVITE (IAM) →	<b>→</b>	INVITE				
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing				
	183 Session Progress ←	<b>←</b>	183 Session Progress				
	(CPG)						
	Apply post test routine						

Test Purpose name  Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG  Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4  CPG: Access Transport Progress Indicator #4  CPG: Access Transport Progress Description='0000100'  SIP Parameter values  180: <pre> </pre> <pre> <pre></pre></pre>	TP number	TP_204_013	Reference	[1], clause 7.3.1			
Selection criteria         PICS 6.2.1/5 AND PICS 6.2.1/9           Test Purpose name         Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG           Test Purpose         Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4           ISUP Parameter values         CPG: Access Transport Progress Indicator #4           Progress Indicator Progress Description='0000100'         180: <				L 3/			
Test Purpose name  Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG Test Purpose  Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4  ISUP Parameter values  CPG: Access Transport Progress Indicator Progress Description='0000100'  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001 or ProgressDescription>0000010  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100  Comments  Message flows  SIP-I MGCF INVITE (IAM)  **INVITE* (IAM) **INV	TSS reference	SIP-I - SIP NNI/Basic call/	Sending_of_CPG in enca	psulated 18x message/			
Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4  ISUP Parameter values  CPG: Access Transport Progress Indicator #4  Progress Indicator Progress Description='0000100'  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001 or ProgressDescription>0000010  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100  Comments  Message flows  SIP-I MGCF SIP NNI INVITE (IAM) → INVITE 180 Ringing (ACM) ← 180 Ringing 183 Session Progress (CPG)	Selection criteria						
Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4  CPG: Access Transport Progress Indicator Progress Description='0000100'  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressDescription>000001<   or ProgressDescription>0000010   183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressOctet4 ProgressOctet4 ProgressOctet4 ProgressOctet4 ProgressOctet4 ProgressDescription>0000100   Comments SIP-I MGCF SIP NNI INVITE (IAM)	Test Purpose name						
Transport Parameter is present containing a Progress Indicator #4  ISUP Parameter values  CPG: Access Transport Progress Indicator Progress Description='0000100'  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<  or ProgressDescription>0000010<  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN PSTN ProgressIndicator Pstr PSTN ProgressIndicator ProgressOctet4 ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I MGCF INVITE 180 Ringing (ACM)	Test Purpose						
CPG: Access Transport							
Progress Indicator			esent containing a Progre	ss Indicator #4			
Progress Description='0000100'   180:	ISUP Parameter values	•					
180:		· ·					
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>			escription='0000100'				
PSTN	SIP Parameter values						
ProgressIndicator			ding="utf-8"?>				
ProgressOctet4							
ProgressDescription>0000001< or							
or ProgressDescription>0000010<  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I INVITE (IAM) INVITE (IAM) 180 Ringing (ACM) 183 Session Progress (CPG)  MGCF SIP NNI INVITE 180 Ringing 183 Session Progress (CPG)							
ProgressDescription>0000010<  183: P-Early-Media: sendonly  PSTN  ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I MGCF SIP NNI  INVITE (IAM)  INVITE (18M)  INVITE  180 Ringing (ACM)  183 Session Progress (CPG)		•	ption> <b>0000001</b> <				
183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I INVITE (IAM) INVITE (IAM) 180 Ringing (ACM) 183 Session Progress (CPG)  MGCF SIP NNI FINVITE 180 Ringing 183 Session Progress (CPG)		-					
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		ProgressDescri	ProgressDescription>0000010<				
PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I MGCF SIP NNI  INVITE (IAM) → INVITE 180 Ringing (ACM) ← 180 Ringing 183 Session Progress ← 183 Session Progress (CPG)							
ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I INVITE (IAM) INVITE (IAM) INVITE (180 Ringing (ACM) Foogress (CPG)							
ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  SIP-I MGCF SIP NNI  INVITE (IAM) → INVITE  180 Ringing (ACM) ← 180 Ringing  183 Session Progress ← 183 Session Progress (CPG)							
ProgressDescription>0000100<  Comments  Message flows  SIP-I MGCF SIP NNI  INVITE (IAM) → INVITE  180 Ringing (ACM) ← 180 Ringing  183 Session Progress ← 183 Session Progress (CPG)							
Comments  Message flows  SIP-I  INVITE (IAM)  180 Ringing (ACM)  183 Session Progress  (CPG)  MGCF  SIP NNI  → INVITE  180 Ringing  ← 183 Session Progress  ← 183 Session Progress							
Message flows  SIP-I  INVITE (IAM)  180 Ringing (ACM)  183 Session Progress  (CPG)  MGCF  SIP NNI  → INVITE  180 Ringing  ← 180 Ringing  ← 183 Session Progress	_	ProgressDescri	ption> <b>0000100</b> <				
INVITE (IAM) → INVITE  180 Ringing (ACM) ← ← 180 Ringing  183 Session Progress ← ← 183 Session Progress  (CPG)	••••••						
180 Ringing (ACM) ←	Message flows			_			
183 Session Progress ← 183 Session Progress (CPG)							
(CPG)							
			<del>(</del>	← 183 Session Progress			
Apply post test routile		(CFG)	Apply post test re	outine			

TP number	TP_204_014	Reference	[1], clause 7.3.1		
TCC votovovo	CID I CID NINI/Dasia sali/C	anding of CDC in ananous	[2], clause 7.2.3.2.6		
TSS reference		ending_of_CPG in encapsula	ted 18x message/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2				
Test Purpose name		ProgressIndicator 7 in 183 into			
Test Purpose		PSTN XML ProgressIndicator			
		d no Access Transport Param	eter is present containing a		
	Progress Indicator #7				
ISUP Parameter values	CPG: Access Transport no	t present			
SIP Parameter values	180:				
	xml version="1.0" encodi</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescrip	tion> <b>0000001</b> <			
	or				
	ProgressDescription>0000010<				
	1400 P.F. I. M. II I. I				
	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4	tion, 0000111			
Comments	ProgressDescrip	11011>0000111<			
	SIP-I	MGCF	SIP NNI		
Message flows					
	INVITE (IAM)		INVITE		
	180 Ringing ← 180 Ringing				
	(ACM – free)				
	183 Session Progress ← 183 Session Progress				
	(CPG)				
		Apply post test routing	₩		

	TD 004 045	- In <i>t</i>	Ir. 1 0 4			
TP number	TP_204_015	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6			
TSS reference	SIP-I - SIP NNI/Basic call/	/Sending_of_CPG in end	capsulated 18x message/			
Selection criteria	PICS 6.2.1/5 AND PICS 6	5.2.1/9				
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 8 in 183	into Event information in the CPG			
Test Purpose			dicator value 8 in a 183 Session			
	Progress, a 183 Session F	Progress with encapsula	ted CPG is sent and Event information			
	parameter is set to 'In-ban	nd information or approp	riate pattern is now available'			
ISUP Parameter values	CPG: Event information= In-band information or appropriate pattern is now available					
SIP Parameter values	183: P-Early-Media: sendonly					
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th>	ding="utf-8"?>				
	PSTN	_				
	ProgressIndicator	ProgressIndicator				
	ProgressOctet4					
	ProgressDescription>0001000<					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	180 Ringing (ACM)	←	← 180 Ringing			
	<b>5 5</b> , ,	<del>-</del>	← 183 Session Progress			
(CPG)						
	Apply post test routine					

TP number	TP_204_017	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6.1		
TSS reference	SIP-I - SIP NNI/Basic call/Ser		ated 18x message/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1	1/9			
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 1 in 180 into A	ATP in the CPG		
Test Purpose	Ensure that on receipt of a PS	STN XML ProgressIndicate	or value 1 in a 180 Ringing, a 180		
	Ringing with encapsulated CI	PG is sent and an Access 1	Fransport Parameter is present		
	containing a Progress Indicat	or #1			
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Desc	ription='0000001'			
SIP Parameter values	180:				
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	on> <b>0000001</b> <			
Comments					
Message flows	SIP NNI	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	_				
	183 Session Progress	Ti/w1 expired →	INVITE		
	(ACM – no indication)				
	180 Ringing (CPG) ←	+	180 Ringing		
		Apply post test routing	ne		

TP number	TP_204_018	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_CPG in encapsulated	18x message/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into ATP in	n the CPG		
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator valu	ue 2 in a 180 Ringing, a 180		
	Ringing with encapsulated CP containing a Progress Indicate	G is sent and an Access Trans or #2	port Parameter is present		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000010'			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000010<				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ← (ACM)	Ti/w1 expired → INV	ITE		
	180 Ringing (CPG)	← 180	Ringing		
	Apply post test routine				

TP number	TP_204_019	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call	Sending_of_CPG in enca	psulated 18x message/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Pr				
Test Purpose			licator value 4 in a 180 Ringing a 180		
			ess Transport Parameter is present		
	containing a Progress Ind	icator #4			
ISUP Parameter values	CPG: Access Transport				
	Progress Indica				
		escription='0000100'			
SIP Parameter values	180:				
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th>	ding="utf-8"?>			
	PSTN Dragger				
	ProgressIndicator				
	ProgressOctet4	intion> 000001 <			
	•	ProgressDescription>0000001<			
	or ProgressDescription>0000010<				
	1 TogressDescription>00000 TUS				
	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescr	iption> <b>0000100</b> <			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE		
	183 Session Progress ← 183 Session Progress				
	(ACM)	_			
	180 Ringing (CPG) ← 180 Ringing				
		Apply post test r	outine		

TP number	TP_204_020	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_CPG in encapsul	ated 18x message/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	No mapping of PSTN XML Pro	gressIndicator 7 in 180 in	to ATP in the CPG		
Test Purpose			or value 7 in a 180 Ringing, a 180		
	Ringing with encapsulated CP	G is sent and no Access	Transport Parameter is present		
	containing a Progress Indicato	r #7			
ISUP Parameter values	CPG: Access Transport not p	resent			
SIP Parameter values	183:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing		
	183 Session Progress ← (CPG)	<b>←</b>	183 Session Progress		
	Apply post test routine				

TP number	TP_204_021		Reference		[2], clause 7.2.3.2.6
TSS reference	SIP-I - SIP NNI/Basic ca	all/Se	nding_of_CPG in e	encapsul	ated 18x message/
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML	Prog	ressIndicator 8 in 1	80 into E	Event information in the CPG
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 8 in a 180 Ringing, a 180 Ringing with encapsulated CPG is sent and Event information parameter is set to 'In-band information or appropriate pattern is now available'				
ISUP Parameter values	<b>CPG:</b> Event informatio	n= In	-band information of	or approp	oriate pattern is now available
SIP Parameter values	183: xml version="1.0" end PSTN ProgressIndicator ProgressOctet4 ProgressDes</th <th></th> <th>g="utf-8"?&gt; on&gt;<b>0001000</b>&lt;</th> <th></th> <th></th>		g="utf-8"?> on> <b>0001000</b> <		
Comments					
Message flows	SIP-I INVITE (IAM) 183 Session Progress (ACM) 180 Ringing (CPG)	<b>→ ←</b>	MGCF Ti/w1 started Ti/w1 expired	→ ←	SIP NNI INVITE 180 Ringing
	Apply post test routine				

TP number	TP_204_023		Reference		[1], clause 7.3.1
					[2], clause 7.2.3.2.7
TSS reference	SIP-I - SIP NNI/Basic cal	II/Sen	ding_of_CPG in e	encapsul	ated 18x message/
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Medi	ia hea	der into Event inf	ormation	n parameter in CPG
Test Purpose	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present authorizing early media, a 183 Session Progress with encapsulated CPG is sent. The Event information parameter is set to 'In-band information or appropriate pattern is now available'				
ISUP Parameter values	<b>CPG:</b> Event information	= In-b	and information o	or approp	oriate pattern is now available
SIP Parameter values	183: P-Early-Media: se	endoni	ly		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>	Ti/w1 started		
	183 Session Progress (ACM)	<b>←</b>	Ti/w1 expired	<b>→</b>	INVITE
	183 Session Progress (CPG)	<b>←</b>		<b>←</b>	183 Session Progress
	Apply post test routine				

TP number	TP_204_024	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.7.4		
TSS reference	CID I CID NINI/Docio coll/Con	ding of CDC in anappaulate	L J'		
	SIP-I - SIP NNI/Basic call/Sen	uing_or_CPG in encapsulate	ed 18x message/		
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name	180 received, coding of Backw				
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.  Ensure that on receipt of a 180 Ringing response, a 180 Ringing with encapsulated CPG is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = subscriber free (01)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)				
	Echo control device indicator = incoming echo control device included (1)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz ACM: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	(ACM)		NVITE		
	180 Ringing (CPG) ←		80 Ringing		
	Apply post test routine				

TP_204_025	Reference	[1], clause 7.3.1		
		[2], clause 7.2.3.2.7.4		
SIP-I - SIP NNI/Basic cal	II/Sending_of_CPG in end	capsulated 18x message/		
PICS 6.2.4/2 AND NOT I	PICS 6.2.1/18			
IAM with Transmission M	ledium Requirement indic	cator=64 kBit/s unrestricted received.		
sent and the Backward c	all indicator is set to the f	ollowing values:		
<ul> <li>Charge indicator = c</li> </ul>	harge (10)			
<ul> <li>Called party's status</li> </ul>	indicator = subscriber fre	ee (01)		
<ul> <li>Called party's category</li> </ul>	ory indicator = no indication	on (00)		
<ul> <li>Interworking indicate</li> </ul>	or = interworking encounter	ered (1)		
_	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>			
<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>				
				Echo control device indicator = incoming echo control device not included (0)
IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
ACM: Backward call indicator				
Called party's status indicator = no indication				
SIP SIP-I	MGCF	SIP NNI		
INVITE (IAM)	→ Ti/w1 started			
183 Session Progress (ACM)	← Ti/w1 expired	→ INVITE		
180 Ringing (CPG)	<b>←</b>	← 180 Ringing		
Apply post test routine				
	SIP-I - SIP NNI/Basic ca PICS 6.2.4/2 AND NOT  180 received, coding of B IAM with Transmission N Ensure that on receipt of sent and the Backward of Charge indicator = of Called party's status Called party's categor End-to-end method Interworking indicator ISDN user part/BICO ISDN access indicator ISDN access indicator Echo control device IAM: Transmission Metack ACM: Backward call indicator Called party's  SIP SIP-I INVITE (IAM)  183 Session Progress (ACM)	SIP-I - SIP NNI/Basic call/Sending_of_CPG in end PICS 6.2.4/2 AND NOT PICS 6.2.1/18  180 received, coding of Backward call indicator in IAM with Transmission Medium Requirement indic Ensure that on receipt of a 180 Ringing response, sent and the Backward call indicator is set to the form that the Charge indicator = charge (10)  Called party's status indicator = subscriber from the Called party's category indicator = no indicator = End-to-end method indicator = no end-to-end interworking indicator = interworking encount in ISDN user part/BICC indicator = ISDN user part/BICC indicator = ISDN user part/BICC indicator = incoming eclosed indicator = i		

TP number	TP_204_026	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.7.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding of CPG in encapsul		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/		ated Tox Illessage/	
		-	TMD 64 kDit/o uprostricted	
Test Purpose name	180 received, coding of Backw			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 180 Ringing response, a 180 Ringing with encapsulated CPG is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = subscriber free (01)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)			
	<ul> <li>Echo control device indicator = incoming echo control device not included (0)</li> </ul>			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted ACM: Backward call indicator Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	Ti/w1 started		
	(ACM)	Ti/w1 expired →	INVITE	
	180 Ringing (CPG) ←	<b>←</b>	180 Ringing	
	Apply post test routine			

TP number	TP 204 027	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.7.4			
TSS reference	SIP-I - SIP NNI/Basic ca	III/Sending_of_CPG in enca	apsulated 18x message/			
Selection criteria			-			
Test Purpose name	180 received, coding of	Backward call indicator in (	CPG HLC "Facsimile Group 2/3"			
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer					
			re that on receipt of a 180 Ringing			
			s sent and the Backward call indicator is			
	set to the following value					
	• Charge indicator = 0	• , ,	45.43			
		s indicator = subscriber free	• •			
		ory indicator = no indicatio				
		indicator = no end-to-end i	• •			
		or = interworking encounte	. ,			
			nd information available (0)			
		• ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	ISDN access indicator = terminating access non-ISDN (0)					
IOUR B	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz					
	High Layer Compatibility= Facsimile Group 2/3  ACM: Backward call indicator					
	Called party's status indicator = no indication					
SIP Parameter values	Called party s	status indicator – no indica	auon			
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→ Ti/w1 started	<b></b>			
	177712 (Milli)					
	183 Session Progress	← Ti/w1 expired	→ INVITE			
	(ACM)	· · · · · ·				
	180 Ringing (CPG)	<b>←</b>	← 180 Ringing			
	Apply post test routine					

# 6.1.2.5 Sending of the Answer Message (ANM)

TP number	TP_205_001	Re	ference	[1], clause 7.3.1 [2], clause 7.2.3.2.8		
TSS reference	SIP-I - SIP NNI/Basic ca	all/200 OK	INVITE with encapsu	lated ANM /		
Selection criteria						
Test Purpose name	Sending of ANM when 2	200 OK IN\	/ITE was received			
Test Purpose		Ensure that upon receipt of the first 200 OK (INVITE), if the Address Complete Message (ACM) has already been sent, the SUT sends the Answer Message (ANM)				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	→	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	180 Ringing (ACM)	<b>←</b>	+	180 Ringing		
	200 OK (INVITE) (ANM)	<b>←</b>	<b>←</b>	200 OK (INVITE)		
	ACK	→	<b>→</b>	ACK		
		Apply post test routine				

TP number	TP_205_002	Reference	[1], clause 7.3.1			
Tr mamber	11 _203_002	Kelefelice	[2], clause 7.3.1			
TSS reference	SIP-L - SIP NNI/Rasic ca	II/200 OK INVITE with en	capsulated ANM 200 OK INVITE with			
	encapsulated ANM /	· '				
Selection criteria	NOT PICS 6.2.1/18					
Test Purpose name		of Backward call indicate	or in ANM TMR speech or 3,1 kHz audio			
Test Purpose			Medium Requirement indicator=speech			
-			00 OK INVITE final response, a 200 OK			
	INVITE with encapsulate	ed ANM is sent and the Ba	ackward call indicator is set to the			
	following values:					
	<ul> <li>Charge indicator = c</li> </ul>	charge (10)				
		s indicator = no indication				
		ory indicator = no indicati				
	<ul> <li>End-to-end method</li> </ul>	indicator = no end-to-end	method available (00)			
		or = interworking encount				
			end information available (0)			
		-	art not used all the way (0)			
	ISDN access indicator = terminating access non-ISDN (0)					
			o control device included (1)			
ISUP Parameter values		dium Requirement indica	tor=speech or 3,1 kHz			
	ACM: Backward call ind					
OID D	Called party's status indicator = no indication					
SIP Parameter values	183: P-Early-Media: se	endonly				
Comments Manager flavor	SIP-I	MGCF	SIP NNI			
Message flows			SIP INNI			
	INVITE (IAM)	→ Ti/w1 started				
	183 Session Progress	← Ti/w1 expired	→ INVITE			
	(ACM)	Ti/wi expired	- INVIIE			
	(ACIVI)		← 183 Session Progress			
			103 Session Flogress			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)			
	(ANM)	•	200 01 (1147112)			
	ACK	<b>→</b>	→ ACK			
		Apply post test				
L	Apply post test routine					

TP number	TP_205_003	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.8		
TSS reference	SIP-I - SIP NNI/Basic call/200	OK INVITE with encapsu	lated ANM /		
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18			
Test Purpose name			NM TMR 64 kBit/s unrestricted		
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 200 OK INVITE final response, an 200 OK INVITE with encapsulated ANM is sent and the Backward call indicator is set to the following values:  • Charge indicator = charge (10)  • Called party's status indicator = no indication (00)  • Called party's category indicator = no indication (00)  • End-to-end method indicator = no end-to-end method available (00)  • Interworking indicator = interworking encountered (1)  • End-to-end information indicator = no end-to-end information available (0)  • ISDN user part/BICC indicator = ISDN user part not used all the way (0)  • ISDN access indicator = terminating access non-ISDN (0)  • Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted  ACM: Backward call indicator  Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendor				
Comments		•			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ← (ACM)	Ti/w1 expired →	INVITE		
	← 183 Session Progress				
	200 OK ← 200 OK (INVITE)				
	ACK →	<b>→</b>	ACK		
		Apply post test routi			

TP number	TP_205_004	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.8		
TSS reference	SIP-I - SIP NNI/Basic call/200		ated ANM /		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	• •			
Test Purpose name	200 OK received, coding of Ba				
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 200 OK INVITE final response, an 200 OK INVITE with encapsulated ANM is sent and the Backward call indicator is set to the following values:  • Charge indicator = charge (10)  • Called party's status indicator = no indication (00)  • Called party's category indicator = no indication (00)  • End-to-end method indicator = no end-to-end method available (00)  • Interworking indicator = no interworking encountered (0)  • End-to-end information indicator = no end-to-end information available (0)  • ISDN user part/BICC indicator = ISDN user part used all the way (1)				
		erminating access ISDN (			
		ator = Incoming echo contro	` '		
ISUP Parameter values		Requirement indicator=64 l			
leer randington rande	ACM: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments		•			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	Session Progress ← (ACM)	Ti/w1 expired →	INVITE		
		<b>←</b>	183 Session Progress		
	200 OK (INVITE) ← (ANM)	<b>←</b>	200 OK (INVITE)		
	ÀCK ′ →	<b>→</b>	ACK		
		Apply post test routing	e		

TP number	TP_205_005	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.8		
TSS reference	SIP-I - SIP NNI/Basic call/20	0 OK INVITE with encapsula	ated ANM /		
Selection criteria	PICS 6.2.1/9				
Test Purpose name			NM HLC "Facsimile Group 2/3"		
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 200 OK INVITE final response, a 200 OK INVITE with encapsulated ANM is sent and the Backward call indicator is set to the following values:  • Charge indicator = charge (10)  • Called party's status indicator = no indication (00)  • Called party's category indicator = no indication (00)  • End-to-end method indicator = no end-to-end method available (00)  • Interworking indicator = interworking encountered (1)  • End-to-end information indicator = no end-to-end information available (0)  • ISDN user part/BICC indicator = ISDN user part not used all the way (0)  • ISDN access indicator = terminating access non-ISDN (0)  • Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility= Facsimile Group 2/3  ACM: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments	_				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	Session Progress ← (ACM)	Ti/w1 expired →	INVITE		
		<b>←</b>	183 Session Progress		
	200 OK (INVITE)  (ANM)	<b>+</b>	200 OK (INVITE)		
	ACK →	<b>→</b>	ACK		
		Apply post test routing	ne		

TP number	TP_205_006	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.9.2	
TSS reference	SIP-I - SIP NNI/Basic call/200	OK INVITE with encapsu	ılated ANM /	
Selection criteria	PICS 6.2.1/5	•		
Test Purpose name	Mapping of PSTN XML Progra	essIndicator 1 in 200 OK i	nto ATP in the ANM	
Test Purpose	Ensure that on receipt of a PS	STN XML ProgressIndicate	or value 1 in a 200 OK INVITE, an	
	ANM is sent and an Access T	ransport Parameter is pre	sent containing a Progress	
	Indicator #1			
ISUP Parameter values	ANM: Access Transport			
	Progress Indicator			
		ription='0000001'		
SIP Parameter values	200 OK:			
	xml version="1.0" encoding</th <th>j="utf-8"?&gt;</th> <th></th>	j="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	n> <b>0000001</b> <		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	180 Ringing ←	<b>←</b>	180 Ringing	
	(ACM – free)			
	200 OK (INVITE)	<b>←</b>	200 OK (INVITE)	
	ANM			
	ACK →	→	ACK	
		Apply post test routi	ne	

TP number	TP_205_007		Reference	[1], clause 7.3.1	
				[2], clause 7.2.3.2.9.2	
TSS reference	SIP-I - SIP NNI/Basic ca	all/200 O	K INVITE with encaps	ulated ANM /	
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML	Progress	sIndicator 2 in 200 OK	into ATP in the ANM	
Test Purpose				tor value 2 in a 200 OK INVITE, a	
				Access Transport Parameter is	
	present containing a Pro	ogress Ir	ndicator #2		
ISUP Parameter values	ANM: Access Transpor	rt			
	Progress Ind	icator			
	Progress	Descript	tion='0000010'		
SIP Parameter values	200 OK:				
	xml version="1.0" end</th <th>coding="</th> <th>utf-8"?&gt;</th> <th></th>	coding="	utf-8"?>		
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDes	cription>	·0000010<		
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	180 Ringing (ACM)	<b>←</b>	<b>←</b>	180 Ringing	
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE)	
	(ANM)				
	ACK	<b>→</b>	<b>→</b>	ACK	
			Apply post test rout	tine	

TP number	TP_205_008	F	Reference		[1], clause 7.3.1
					[2], clause 7.2.3.2.9.2
TSS reference	SIP-I - SIP NNI/Basic cal	II/200 O	K INVITE with encap	sulated	ANM /
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML F	rogress	sIndicator 4 in 200 Ol	Cinto A	TP in the ANM
Test Purpose	Ensure that on receipt of	a PSTI	N XML ProgressIndic	ator valu	ue 4 in a 200 OK INVITE, a
				in Acces	ss Transport Parameter is
	present containing a Prog	gress Ir	ndicator #4		
ISUP Parameter values	ANM: Access Transport				
	Progress Indic				
	·	Descript	tion='0000100'		
SIP Parameter values	200 OK:				
	xml version="1.0" enco</th <th>oding="</th> <th>utf-8"?&gt;</th> <th></th> <th></th>	oding="	utf-8"?>		
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDesc	ription>	·0000100<		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>	=	INV	ITE
			•	100	Trying
	180 Ringing (ACM)	<b>←</b>	•	180	Ringing
	200 OK (INVITE) (ANM)	<b>←</b>	•	200	OK (INVITE)
	` '	<b>→</b>	-	▶ ACŁ	<
		_	Apply post test rou		•

TP number	TP_205_009	Reference		[1], clause 7.3.1			
				[2], clause 7.2.3.2.9.2			
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 5 in 200 (	OK into AT	P in the ANM			
Test Purpose				e 5 in a 200 OK INVITE, a			
	200 OK INVITE with enca		an Acces	s Transport Parameter is			
	present containing a Prog						
ISUP Parameter values		kHz audio, USI prime=ur					
		ferred, TMR prime = spee	ch or 3,1 k	kHz audio			
	ANM: Access Transport						
	Progress Indica	ator					
	Progress De	escription='0000101'					
SIP Parameter values	200 OK:						
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th> <th></th>	ding="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription>0000101<						
Comments							
Message flows	SIP-I	MGCF		SIP NNI			
	INVITE (IAM)	→	→ INVI	TE			
			<b>←</b> 100	Trying			
	180 Ringing (ACM)	<b>-</b>	<b>←</b> 180	Ringing			
	200 OK (INVITE)	<b>-</b>	← 200	OK (INVITE)			
	(ANM)						
	ACK -	→	→ ACK				
		Apply post test r	outine				

TP number	TP_205_010	R	eference		[1], clause 7.3.1		
					[2], clause 7.2.3.2.9.2		
TSS reference	SIP-I - SIP NNI/Basic	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.1/5						
Test Purpose name					OK into ATP in the ANM		
Test Purpose		Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, a 200 OK INVITE with encapsulated ANM is sent and <b>no</b> Access Transport Parameter is					
	present containing a F	present containing a Progress Indicator #7. The Backward call indicator is set to the					
	following values: ISDN User Part inc	dicator					
	ISDN User Pai		the way				
	ISDN access indic		uic way				
	Terminating a		N				
	Interworking indica		•				
	no interworkir		tered				
ISUP Parameter values	ANM: Access Transp						
	Backward call	Backward call indicator					
	ISDN User						
		ISDN User Part used all the way					
	ISDN acces						
		Terminating access ISDN					
	Interworking		nacuntared				
SIP Parameter values	200 OK:	rworking e	ncountered				
Sir raidilletei values	<pre><?xml version="1.0" e</pre></pre>	ncodina-"ı	ıtf-8"?>				
	PSTN	incounty— c	iti-0 :/				
	ProgressIndicator						
	ProgressOctet						
	ProgressDe		0000111<				
Comments							
Message flows	SIP-I		MGCF		SIP NNI		
	INVITE (IAM)	<b>→</b>		<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	180 Ringing (	<b>←</b>		<b>←</b>	180 Ringing		
	(ACM - free)						
	200 OK (INVITE)	<b>←</b>		<b>←</b>	200 OK (INVITE)		
	(ANM)	_		_			
	ACK	<b>→</b>		→	ACK		
			Apply post tes	t routi	ne		

TP number	TP_205_011	Reference		[1], clause 7.3.1	
				[2], clause 7.2.3.2.9.2	
TSS reference		all/200 OK INVITE with en	capsulated	ANM /	
Selection criteria	PICS 6.2.1/5				
Test Purpose name		HighLayerCompatibility in			
Test Purpose		f 200 OK INVITE and a P			
		OK INVITE with encaps			
				patibility IE and the value is set	
10115 5		indicated in table 6.1.2.5	-1		
ISUP Parameter values	ANM: Access Transpor				
	High layer co		III C	1/A	
SIP Parameter values		characteristics identifica	tion = HLC_	_VA	
SIP Parameter values	200 OK:				
	PSTN XML MIME body	ooding="utf 9"2>			
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	HighLayerCompatibi	lity			
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacteristics> <b>HLC_VA</b> <				
Comments					
Message flows	SIP-I	MGCF		SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INV		
				Trying	
	180 Ringing	<del>-</del>	<b>←</b> 180	Ringing	
	(ACM)				
		_	_		
	200 OK (INVITE)	<b>←</b>	<b>←</b> 200	OK (INVITE)	
	(ANM)	_		_	
	ACK	<b>→</b>	→ ACI	<	
		Apply post tes	routine		

Table 6.1.2.5-1: Mapping of PSTN XML HighLayerCharacteristic into ISUP ATP High layer compatibility

HLC_VA	XML HighLayerCharacteristic	DSS1 High layer characteristics identification
HLC_VA_1	'000001'	Telephony
HLC_VA_2	'0000100'	Facsimile Group 2/3
HLC_VA_3	'0100001'	Facsimile Group 4 Class I
HLC_VA_4	'0100100'	Facsimile service Group 4, Classes II and III
HLC_VA_5	'0110010'	Syntax based Videotex
HLC_VA_6	'0110011'	International Videotex interworking via gateways or interworking units
HLC_VA_7	'0110101'	Telex service
HLC_VA_8	'1000010'	FTAM application
HLC_VA_9	'1100000'	Videotelephony

TP number	TP_205_012	Re	ference	[1], clause 7.3.1		
				[2], clause 7.2.3.2.9.2		
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML	. BearerCap	ability in 200 OK into	ATP in ANM		
Test Purpose		Ensure that on receipt of 200 OK INVITE and a PSTN XML BearerCapability element is				
	present, a 200 OK INVITE with encapsulated ANM is sent and a Access Transport					
		Parameter is present containing a Bearer Capability IE and the value is set to the value				
IOUD Developed	ITC_value as indicated			sinted distribute with T/A		
ISUP Parameter values	-		•	ricted digital info with T/A,		
	ANM: Access Transpo		MR prime = speech o	or 3,1 KHZ audio		
	Bearer Capa					
			Canability - ITC val	مارا مارا		
SIP Parameter values	Information Transfer Capability = ITC_value  200 OK:					
on randinotor values	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability> ITC_value <					
	BCoctet4					
	TransferMode>00<					
	InformationT	ransferRate	e>10000<			
Comments	OID I		МООБ	CID NINII		
Message flows	SIP-I	•	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
	400 Dinging (ACM)	_	<b>+</b>	100 Trying		
	180 Ringing (ACM)	<b>←</b>	~	180 Ringing		
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE)		
	(ANM)	•	•	ZOO OK (IINVITE)		
	ACK	<b>→</b>	<b>→</b>	ACK		
		Apply post test routine				

Table 6.1.2.5-2: Mapping of PSTN XML BearerCapability into ISUP ATP Bearer Capability

ITC_value	XML InformationTransferCapability	BC Information transfer capability
VA_01	'00000'	Speech
VA_02	'10000'	3,1 kHz audio
VA_03	'10001'	Unrestricted digital information with
		tones/announcements

TP number	TP_205_013	Reference	[1], clause 7.3.1		
TSS reference	SID I SID NNI/Pagio call/200	OK INIVITE with anaonaul	[2], clause 7.2.3.2.9.3		
	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /				
Selection criteria	PICS 6.2.1/5	O	in an adiam and a superstant		
Test Purpose name	Mapping of PSTN XML BearerCapability into Transmission medium used parameter				
Test Purpose	Ensure that on receipt of a PSTN XML BearerCapability element in a 200 OK INVITE a				
	Transmission Medium Used parameter is present in the sent 200 OK INVITE with encapsulated ANM message. The value of the PSTN XML InformationTransferCapability				
			smission Medium Used parameter		
ICUD Devementes values	TMU_VA_TMU as described in		sinted dissitations with T/A		
ISUP Parameter values	IAM: USI=speech or 3,1 kHz	•	,		
		d, TMR prime = speech o	r 3,1 kHz audio		
	ANM: TMU:				
SIP Parameter values	TMU_VA_TMU				
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability> <b>TMU_VA_BC</b> <				
	miomation randorotapability rino_th_box				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<del>-</del>	100 Trying		
	180 Ringing ←	<b>←</b>	180 Ringing		
	(ACM – free)				
	200 OK (INVITE) ←	<b>←</b>	200 OK (INVITE)		
	(ANM)		, ,		
	ÀCK →	<b>→</b>	ACK		
		Apply post test routing	ne		

Table 6.1.2.5-3: Mapping of PSTN XML BearerCapability into ISUP TMU parameter

TMU_VA	PSTN XML BearerCapability TMU_VA_BC	TMU value TMU_VA_TMU		
TMU_VA_01	'00000'	'speech'		
TMU_VA_02	'10000'	'3,1 kHz audio'		
TMU_VA_03	'10001'	No mapping (see note 1)		
TMU_VA_04	Not present (see note 2)	'3,1 kHz audio'		
NOTE 1: The value of 'UDITA' is sent when fallback does not occur.				
NOTE 2: The absence of a PSTN XML attachment indicates that a non ISDN destination is reached.				

# 6.1.2.6 Sending of the 200 OK (INVITE) with encapsulated Connect message (CON)

TP number	TP_206_001	Re	ference	[1], clause 7.3.1
				[2], clause 7.2.3.2.11
TSS reference	SIP-I - SIP NNI/Basio	call/Sending	of_200_OK_INVITE	_with_encapsulated CON/
Selection criteria				
Test Purpose name	Sending of CON mes	ssage after 20	0 OK was received	
Test Purpose	Ensure that on receipt of a 200 OK INVITE and no ACM was sent, a 200 OK INVITE with encapsulated CON message is sent			
ISUP Parameter values		-		
SIP Parameter values				
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→	INVITE
			<b>←</b>	100 Trying
	200 OK (INVITE) CON	<b>←</b>	<b>←</b>	200 OK (INVITE)
	ACK	<b>→</b>	<b>→</b>	ACK
	Apply post test routine			

TP number	TP_206_002	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11.1	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/			
Selection criteria	NOT PICS 6.2.1/18			
Test Purpose name	200 OK received, coding of Backward call indicator in CON TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.			
	Ensure that on receipt of a 200			
	encapsulated CON is sent and	I the Backward call indica	tor is set to the following values:	
	<ul> <li>Charge indicator = charge</li> </ul>	e (10)		
	<ul> <li>Called party's status indic</li> </ul>	ator = no indication (00)		
	<ul> <li>Called party's category in</li> </ul>	dicator = no indication (00	))	
	<ul> <li>End-to-end method indicate</li> </ul>	tor = no end-to-end meth-	od available (00)	
	<ul> <li>Interworking indicator = in</li> </ul>	terworking encountered (	1)	
	• End-to-end information indicator = no end-to-end information available (0)			
	<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>			
	ISDN access indicator = terminating access non-ISDN (0)			
	Echo control device indicator = Incoming echo control device included (1)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz			
	CON: Backward call indicator			
	Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	200 OK (INVITE)CON ←	<b>←</b>	200 OK (INVITE)	
	ACK →	<b>→</b>	ACK	
	Apply post test routine			

TP number	TP_206_003	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.11.1			
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/					
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6.2.1/18					
Test Purpose name	200 OK received, coding of Backward call indicator in CON TMR 64 kBit/s unrestricted					
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.					
	Ensure that on receipt of a 20					
	encapsulated CON is sent ar	d the Backward call indica	tor is set to the following values:			
	<ul> <li>Charge indicator = charge</li> </ul>					
	<ul> <li>Called party's status indi</li> </ul>	cator = no indication (00)				
	<ul> <li>Called party's category in</li> </ul>	ndicator = no indication (00	0)			
	<ul> <li>End-to-end method indic</li> </ul>	ator = no end-to-end meth	od available (00)			
	<ul> <li>Interworking indicator = i</li> </ul>	<ul> <li>Interworking indicator = interworking encountered (1)</li> </ul>				
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>					
	<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>					
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>					
	<ul> <li>Echo control device indice</li> </ul>	cator = Incoming echo cor	ntrol device not included (0)			
ISUP Parameter values		Requirement indicator=64				
	CON: Backward call indicate	or .				
	Called party's status indicator = no indication					
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	200 OK (INVITE)CON ←	<b>←</b>	200 OK (INVITE)			
	ACK →	<b>→</b>	ACK			
	Apply post test routine					

TP number	TP_206_004	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.11.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/				
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	18			
Test Purpose name	200 OK received, coding of Ba	200 OK received, coding of Backward call indicator in ANM TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 200 OK INVITE final response, a 200 OK INVITE with				
	encapsulated CON is sent and		is set to the following values:		
	• Charge indicator = charge	• •			
	Called party's status indication				
		dicator = no indication (00)			
		tor = no end-to-end method			
		o interworking encountered			
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part used all the way (1)				
	ISDN access indicator = terminating access ISDN (1)				
		tor = Incoming echo control			
ISUP Parameter values		Requirement indicator=64 kE	Bit/s unrestricted		
	CON: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	==	IVITE		
			00 Trying		
	200 OK (INVITE) CON ←		00 OK (INVITE)		
	ACK →		CK		
		Apply post test routine			

TP number	TP_206_005	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.11.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 200 OK INIVITE			
Selection criteria	311 -1 - 311 NNI/Basic call/Serio	ilig_oi_zoo_or_livviiL	_witi1_ericapsulated CON/		
Test Purpose name	200 OK received, coding of Backward call indicator in CON HLC "Facsimile Group 2/3"				
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer				
rest i dipose	Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 200 OK INVITE				
	final response, a 200 OK INVITE with encapsulated CON is sent and the Backward call				
	indicator is set to the following				
	<ul> <li>Charge indicator = charge</li> </ul>				
	Called party's status indicate	` '			
	<ul> <li>Called party's category inc</li> </ul>				
	<ul> <li>End-to-end method indicate</li> </ul>				
	<ul> <li>Interworking indicator = inf</li> </ul>	erworking encountered (	1)		
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	ISDN access indicator = terminating access non-ISDN (0)				
	• Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz				
	High Layer Compatibility	y= Facsimile Group 2/3			
	CON: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values					
Comments	CID I	МООГ	OID MAIL		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<del>)</del>	INVITE		
	200 OK (INVITE) CON ←	<b>←</b>	100 Trying		
	ACK (INVITE) CON →	<b>→</b>	200 OK (INVITE) ACK		
	AUR	=			
	Apply post test routine				

TP number	TP_206_006	Reference	[1], clause 7.3.1		
Tr mamber	11 _200_000	Kererende	[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/				
Selection criteria	PICS 6.2.1/5	Sending_or_zoo_or_nvr	1 L_witi1_ericapsulated CON		
		1 1: 1 1: 000 01	/:		
Test Purpose name		ogressIndicator 1 in 200 Ol			
Test Purpose			ator value 1 in a 200 OK INVITE, a		
	200 OK INVITE with enca	psulated CON is sent and a	an Access Transport Parameter is		
	present containing a Prog	ress Indicator #1			
ISUP Parameter values	CON: Access Transport				
	Progress Indica	Progress Indicator			
		escription='0000001'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressOctet4 ProgressDescription>0000001<				
Comments	1 TogressDescri	ption>000001<			
	SIP-I	MGCF	SIP NNI		
Message flows			*** *****		
	INVITE (IAM)	<b>→</b>			
		•			
	200 OK (INVITE) CON ◆	<b>-</b>	200 OK (INVITE)		
	ACK -	<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_206_007	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 200 OK in	nto ATP in the CON		
Test Purpose			or value 2 in a 200 OK INVITE, a		
	200 OK INVITE with encapsula	ated CON is sent and an A	Access Transport Parameter is		
	present containing a Progress	Indicator #2			
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000010'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
_	ProgressDescription	1>0000010<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		+	100 Trying		
	200 OK (INVITE)	<b>←</b>	200 OK (INVITE)		
	(CON)				
		<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_206_008	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_200_OK_INVITE	_with_encapsulated CON/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 4 in 200 OK ir	nto ATP in the CON		
Test Purpose			r value 4 in a 200 OK INVITE, a		
	200 OK INVITE with encapsula present containing a Progress		Access Transport Parameter is		
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000100'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000100<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<del>(</del>	100 Trying		
	200 OK (INVITE) ← (CON)	<b>←</b>	200 OK (INVITE)		
	ACK →	<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_206_009	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11.2	
TSS reference	SIP-I - SIP NNI/Basic call/Se	nding_of_200_OK_INVITE	_with_encapsulated CON/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Prog	ressIndicator 5 in 200 OK	into ATP in the CON	
Test Purpose			or value 5 in a 200 OK INVITE, a	
	200 OK INVITE with encapsu	llated CON is sent and an	Access Transport Parameter is	
	present containing a Progres	s Indicator #5		
ISUP Parameter values	IAM: USI=speech or 3,1 kH	Iz audio, USI prime=unres	tricted digital info with T/A,	
	TMR=64 kbit/s prefer	red, TMR prime = speech of	or 3,1 kHz audio	
	CON: Access Transport			
	Progress Indicator	•		
		ription='0000101'		
SIP Parameter values	200 OK:	200 OK:		
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescripti	on> <b>0000101</b> <		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>+</b>	100 Trying	
	200 OK (INVITE ) ←	<b>←</b>	200 OK (INVITE)	
	(CON)			
	ACK →	→	ACK	
		Apply post test rout	ine	

TD	TD 000 040	In the second	lrus I = 0.4	
TP number	TP_206_010	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11.2	
TSS reference		SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	No mapping of PSTN X	ML ProgressIndicator 7 in	200 OK into ATP in the CON	
Test Purpose	200 OK INVITE with en present containing a Profollowing values:  ISDN User Part indi	ISDN User Part indicator  ISDN User Part used all the way		
	Terminating ac	cess non-ISDN		
	Interworking indicate			
	no interworking			
ISUP Parameter values  SIP Parameter values	ISDN access Terminat Interworking no interv  200 OK: xml version="1.0" en</th <th>dicator art indicator er Part used all the way indicator ting access non-ISDN indicator vorking encountered</th> <th></th>	dicator art indicator er Part used all the way indicator ting access non-ISDN indicator vorking encountered		
	ProgressIndicator			
	ProgressOctet4			
0	ProgressDes	scription>0000111<		
Comments	OID I	M005	OID AINII	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	200 OK (INVITE)	<b>←</b>	<ul><li>← 100 Trying</li><li>← 200 OK (INVITE)</li></ul>	
	(CON)		<b>3</b> AOV	
	ACK	<b>→</b>	→ ACK	
		Apply post tes	t routine	

TP number	TP_206_011	Reference		[1], clause 7.3.1
		"/O II ( OOO	O14 INDUTE: ::	[2], clause 7.2.3.2.11.2
TSS reference		SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/		
Selection criteria		PICS 6.2.1/5		
Test Purpose name		Mapping of PSTN XML HighLayerCompatibility in 200 OK into ATP in CON		
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML HighLayerCompatibility			
	element is present a 200 OK INVITE with encapsulated CON is sent and a Access			
				patibility IE and the value is set
	to the value HLC_VA as		3.1.2.5-1	
ISUP Parameter values	CON: Access Transpor			
	High layer co	mpatibility		
	High layer	r characteristics ide	ntification = <b>HLC</b>	_VA
SIP Parameter values	200 OK:			
	PSTN XML MIME body			
	xml version="1.0" end</th <th>coding="utf-8"?&gt;</th> <th></th> <th></th>	coding="utf-8"?>		
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMethod>01<			
	HLOctet4			
	HighLayerCh	aracteristics> <b>HLC</b> _	VA<	
Comments				
Message flows	SIP-I	MGCF		IP NNIP
	INVITE (IAM)	<b>→</b>	→ IN\	/ITE
			<b>←</b> 100	) Trying
	200 OK (INVITE)	<b>←</b>	<b>←</b> 200	OK (INVITE)
	(CON)			
	ACK	<b>→</b>	→ AC	K
		Apply po	st test routine	

TP number	TP_206_012	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.11.2
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/		
Selection criteria	PICS 6.2.1/5	<u> </u>	
Test Purpose name	Mapping of PSTN XML Bearer	Capability in 200 OK into	ATP in CON
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML BearerCapability element is		
	present, a 200 OK INVITE with		
			and the value is set to the value
	ITC_value as indicated in table	6.1.2.5-1	
ISUP Parameter values	CON: Access Transport		
	Bearer Capability		
		sfer Capability = ITC_val	ue
SIP Parameter values	200 OK:		
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>	
	PSTN		
	BearerCapability		
	BCoctet3		
	CodingStandard>00<		
	InformationTransferCapability> ITC_value <		
	BCoctet4		
	TransferMode>00<		
	InformationTransfer	Rate>10000<	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	200 OK (INVITE) ←	<b>←</b>	200 OK (INVITE)
	(CON)		
	ACK →	<b>→</b>	ACK
		Apply post test routing	ne

TP number	TP_206_013	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML BearerCapability into Transmission medium used parameter			
Test Purpose	Ensure that on receipt of a PSTN XML BearerCapability element in a 200 OK INVITE a			
		Transmission Medium Used parameter is present in the sent 200 OK INVITE with		
			ML InformationTransferCapability	
	value TMU_VA_BC is mappe	d into the value of the Trai	nsmission Medium Used parameter	
	TMU_VA_TMU as described			
	in table 6.1.2.5-3			
ISUP Parameter values	IAM: USI=speech or 3,1 kH	z audio, USI prime=unrest	ricted digital info with T/A,	
	TMR=64 kbit/s preferre	ed, TMR prime = speech o	or 3,1 kHz audio	
	CON: TMU:			
	TMU_VA_TMU			
SIP Parameter values	200 OK:	200 OK:		
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransfe	rCapability>TMU_VA_BC	<	
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	200 OK (INVITE) ←	<b>←</b>	200 OK (INVITE)	
	(CON)		, ,	
	ACK →	<b>→</b>	ACK	
		Apply post test routi	ne	

TP number	TP_206_014	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11A	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/			
Selection criteria	PICS 6.2.1/19	<del></del>		
Test Purpose name	Receipt of a reINVITE request			
Test Purpose	Ensure that on receipt of a rell	NVITE received from the S	SIP network containing a Call-Info	
	header, the SUT instruct the M	IGW to send the associate	ed media to the PSTN leg of the	
	communication			
ISUP Parameter values				
SIP Parameter values	INVITE2: Call-Info: <media res<="" th=""><th>source URL&gt;</th><th></th></media>	source URL>		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE1	
	180 Ringing ←	<b>←</b>	180 Ringing	
	(ACM free)			
	200 OK INVITE ←	<b>←</b>	200 OK INVITE	
	(ANM)			
	ACK →	<b>→</b>	ACK	
	INVITE <b>←</b>	<b>←</b>	INVITE	
		-		
	200 OK INVITE2	<del>)</del>	200 OK INVITE2	
	ACK ←	<b>←</b>	ACK	
	media			
	Apply post test routine			

### 6.1.2.7 Receipt of Status Codes 3xx, 4xx, 5xx or 6xx

TP number	TP_207_001	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.12
TSS reference	SIP-I - SIP NNI/Basic call/F	Receipt_of_4xx-5xx-6xx/	
Selection criteria			
Test Purpose name	Mapping of unsuccessful fi	nal responses to ISUP/BICC	Release messages
Test Purpose	Ensure that on receipt of a	n unsuccessful final response	e SIP_Response before an early
	dialogue is established, a S	SIP_Response with encapsul	ated Release message Cause
	value <b>REL_cause</b> is sent of	n the ISUP/BICC leg of the o	connection. The mapping is
	according the table 6.1.2.7	1. The location value in the I	REL message is set to 'network
	beyond interworking point'		
ISUP Parameter values	REL: Cause = REL_caus	Э	
SIP Parameter values	SIP_Response		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	SIP_Response (REL)	<b>←</b>	SIP_Response
	ACK (RLC) →	<b>→</b>	ACK

Table 6.1.2.7-1: Received status codes on SIP side of O-MGCF mapping to REL

SIP_Response_VA	←REL (cause code) REL_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	111 (protocol error, unspecified)	400 Bad Request
VA_02	127 (interworking unspecified)	401 Unauthorized
VA_03	127 (interworking unspecified)	402 Payment Required
VA_04	79 (Service or option not implemented, unspecified)	403 Forbidden
VA_05	1 (Unallocated number)	404 Not Found
VA_06	127 (interworking unspecified)	405 Method Not Allowed
VA_07	127 (interworking unspecified)	406 Not Acceptable
VA_08	127 (interworking unspecified)	407 Proxy authentication required
VA_09	102 (recovery on timer expiry)	408 Request Timeout
VA_10	22 (Number changed)	410 Gone
VA_11	127 (interworking unspecified)	413 Request Entity too long
VA_12	111 (protocol error, unspecified)	414 Request-URI too long
VA_13	127 (interworking unspecified)	415 Unsupported Media type
VA_14	111 (protocol error, unspecified)	416 Unsupported URI scheme
VA_15	79 (Service or option not implemented, unspecified)	417 Unknown Resource-Priority
VA_16	111 (protocol error, unspecified)	420 Bad Extension
VA_17	111 (protocol error, unspecified)	421 Extension required
VA_18	31 (Normal, unspecified)	422 Session Interval Too Small
VA_19	127 (interworking unspecified)	423 Interval Too Brief
VA_20	24 (call rejected due to ACR supplementary service)	433 Anonymity Disallowed.
VA_21	20 Subscriber absent	480 Temporarily Unavailable
VA_22	127 (interworking unspecified)	440 Max-Breadth Exceeded
VA_23	127 (interworking unspecified)	481 Call/Transaction does not exist
VA_24	127 (interworking unspecified)	482 Loop detected
VA_25	25 (Exchange routing error)	483 Too many hops
VA_26	28 (Invalid Number format)	484 Address Incomplete
VA_27	Cause value No. 1 (unallocated (unassigned) number)	485 Ambiguous
VA_28	17 (User busy)	486 Busy Here
VA_29	127 (Interworking unspecified) or not interworked	487 Request terminated
VA_30	50 (requested facility no subscribed)	488 Not acceptable here
VA_31	127 (interworking unspecified)	493 Undecipherable
VA_32	127 (interworking unspecified)	500 Server Internal error
VA_33	79 (service or option not implemented)	501 Not implemented
VA_34	27 (Destination out of order)	502 Bad Gateway
VA_35	127 (interworking unspecified)	503 Service Unavailable
VA_36	102 (Recovery on timer expiry)	504 Server timeout
VA_37	127 (interworking unspecified)	505 Version not supported
VA_38	127 (interworking unspecified)	513 Message too large
VA_39	127 (interworking unspecified)	580 Precondition failure
VA_40	17 (User busy)	600 Busy Everywhere
VA_41	21 (Call rejected)	603 Decline
VA_42	2 (No route to specified transit network)	604 Does not exist anywhere
VA_43	88 (incompatible destination)	606 Not acceptable

TP number	TP_207_002	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.12
TSS reference	SIP-I - SIP NNI/Basic call/Re	ceipt_of_4xx-5xx-6xx/	
Selection criteria			
Test Purpose name	Mapping of unsuccessful fina	responses to REL after 1	80 was received
Test Purpose	Ensure that on receipt of an u	insuccessful final response	e SIP_Response with encapsulated
			e receipt of a 180 Ringing, a REL is
			eceived status code as indicated in
	table 6.1.2.7-2. The location	alue in the REL message	is set to 'network beyond
	interworking point'		
ISUP Parameter values	<b>REL:</b> Cause = REL_cause		
SIP Parameter values	SIP_Response		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	180 Ringing (ACM)	<b>←</b>	180 Ringing
	SIP_Response (REL) ←	<b>←</b>	SIP_Response
	ACK (RLC) →	<b>→</b>	ACK

TP number	TP_207_003	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic cal	II/Receipt_of_4xx-5xx-6x	cx/	
Selection criteria				
Test Purpose name	Mapping of unsuccessful	final responses to REL	after 181 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response with encapsulated (REL) after an early dialogue was established due to the receipt of a 181 Call is Being Forwarded, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'			
ISUP Parameter values	REL: Cause = REL_cau	use		
SIP Parameter values	SIP_Response			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
			← 100 Trying	
	181 Call is Being Forwarded (ACM)		← 181 Call is Being Forwarded	
	SIP_Response (REL)	<b>←</b>	← SIP_Response	
	ACK (RLC)	<b>→</b>	→ ACK	

TP number	TP_207_004	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic call/Rec	SIP-I - SIP NNI/Basic call/Receipt of 4xx-5xx-6xx/		
Selection criteria		<u> </u>		
Test Purpose name	Mapping of unsuccessful final			
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response with encapsulated (REL)after an early dialogue was established due to the receipt of a 183 Session Progress, a REL is sent.  The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'			
ISUP Parameter values	REL: Cause = REL_cause			
SIP Parameter values	SIP_Response			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	IAM →	<b>→</b>	INVITE	
	1000	<del>(</del>	100 Trying	
	183 Session Progress	<b>←</b>	183 Session Progress	
	SIP_Response (REL)	<del>(</del>	SIP_Response	
	ACK (RLC) →	→	ACK	

Table 6.1.2.7-2: Received status codes on SIP side of O-MGCF mapping to REL

SIP_Response_VA	←REL (cause code) REL_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	111 (protocol error, unspecified)	400 Bad Request
VA_02	127 (interworking unspecified)	402 Payment Required
VA_03	79 (Service or option not implemented, unspecified)	403 Forbidden
VA_04	127 (interworking unspecified)	406 Not Acceptable
VA_05	102 (recovery on timer expiry)	408 Request Timeout
VA_06	22 (Number changed)	410 Gone
VA_07	127 (interworking unspecified)	423 Interval Too Brief
VA_08	20 Subscriber absent	480 Temporarily Unavailable
VA_09	127 (interworking unspecified)	481 Call/Transaction does not exist
VA_10	127 (interworking unspecified)	482 Loop detected
VA_11	25 (Exchange routing error)	483 Too many hops
VA_12	1 (Unallocated (unassigned) number)	485 Ambiguous
VA_13	50 (requested facility no subscribed)	488 Not acceptable here
VA_14	127 (interworking unspecified)	500 Server Internal error
VA_15	79 (service or option not implemented)	501 Not implemented
VA_16	27 (Destination out of order)	502 Bad Gateway
VA_17	102 (Recovery on timer expiry)	504 Server timeout
VA_18	21 (Call rejected)	603 Decline
VA_19	2 (No route to specified transit network)	604 Does not exist anywhere
VA_20	88 (incompatible destination)	606 Not acceptable

TP number	TP_207_005	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria					
Test Purpose name	Mapping of Reason header into	Cause value of REL			
Test Purpose	Ensure that on receipt of an ur				
	header is present set to cause				
	message. The mapping is indic	cated in table 6.1.2.7-3. Th	ne location value in the REL		
	message is set to 'network bey	ond interworking point'			
ISUP Parameter values	REL: Cause= SIP_cause	REL: Cause= SIP_cause			
SIP Parameter values	SIP_Response: Reason: cause= SIP_cause				
Comments	The use of different cause values in the Reason header is recommended. The cause value				
	should be adequate to the response code.				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		<b>←</b>	100 Trying		
	SIP_Response (REL)	<b>←</b>	SIP_Response		
	ACK (RLC) →	<b>→</b>	ACK		

Table 6.1.2.7-3: Received status codes on SIP side of O-MGCF mapping to REL

SIP_Response_VA	←REL (cause code) SIP_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	SIP_cause	400 Bad Request
VA_02	SIP_cause	401 Unauthorized
VA_03	SIP_cause	402 Payment Required
VA_04	SIP_cause	403 Forbidden
VA_05	SIP_cause	404 Not Found
VA_06	SIP_cause	405 Method Not Allowed
VA_07	SIP_cause	406 Not Acceptable
VA_08	SIP_cause	407 Proxy authentication required
VA_09	SIP_cause	408 Request Timeout
VA_10	SIP_cause	410 Gone
VA_11	SIP_cause	413 Request Entity too long
VA_12	SIP_cause	414 Request-URI too long
VA_13	SIP_cause	415 Unsupported Media type
VA_14	SIP_cause	416 Unsupported URI scheme
VA_15	SIP_cause	417 Unknown Resource-Priority
VA_16	SIP_cause	420 Bad Extension
VA_17	SIP_cause	421 Extension required
VA_18	SIP_cause	422 Session Interval Too Small
VA_19	SIP_cause	423 Interval Too Brief
VA 20	SIP_cause	433 Anonymity Disallowed.
VA_21	SIP_cause	440 Max-Breadth Exceeded
VA_22	SIP_cause	480 Temporarily Unavailable
VA_223	SIP cause	481 Call/Transaction does not exist
VA_24	SIP_cause	482 Loop detected
VA_25	SIP_cause	483 Too many hops
VA_26	SIP_cause	484 Address Incomplete
VA_27	SIP_cause	485 Ambiguous
VA_28	SIP_cause	486 Busy Here
VA_29	SIP_cause	487 Request terminated
VA_30	SIP_cause	488 Not acceptable here
VA_31	SIP_cause	493 Undecipherable
VA_32	SIP_cause	500 Server Internal error
VA_33	SIP_cause	501 Not implemented
VA 34	SIP_cause	502 Bad Gateway
VA_35	SIP_cause	503 Service Unavailable
VA_36	SIP_cause	504 Server timeout
VA_37	SIP_cause	505 Version not supported
VA_38	SIP_cause	513 Message too large
VA_39	SIP_cause	580 Precondition failure
VA_40	SIP_cause	600 Busy Everywhere
VA_41	SIP_cause	603 Decline
VA_42	SIP_cause	604 Does not exist anywhere
VA_43	SIP cause	606 Not acceptable

TP number	TP_207_006	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progr the REL	essIndicator 1 in an unsuc	ccessful final response into ATP in	
Test Purpose			or value 1 in an unsuccessful final	
			se with encapsulated REL is sent	
	and an Access Transport Par	ameter is present containi	ng a Progress Indicator #1	
ISUP Parameter values	REL: Access Transport			
	Progress Indicator			
	Progress Desc	ription='0000001'		
SIP Parameter values	SIP_Response:	SIP_Response:		
		xml version="1.0" encoding="utf-8"?		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	on> <b>0000001</b> <		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	100 Trying ←	<b>←</b>	100 Trying	
	SIP_Response (REL)	<b>←</b>	SIP_Response	
	ACK (RLC) →	<b>→</b>	ACK	

TP number	TP_207_007	Reference	[1], clauses 7.2.1, 7.3.1			
			[2], clause 7.2.3.2.12			
TSS reference	SIP-I - SIP NNI/Basic cal	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML P the REL	rogressIndicator 2 in an ι	unsuccessful final response into ATP in			
Test Purpose			dicator value 2 in an unsuccessful final			
			sponse with encapsulated REL is sent			
			ntaining a Progress Indicator #2			
ISUP Parameter values	REL: Access Transport					
	Progress Indic	ator				
	Progress D	Description='0000010'				
SIP Parameter values	SIP_Response:	SIP_Response:				
	xml version="1.0" enco</th <th colspan="3"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDesc	ription> <b>0000010</b> <				
Comments						
Message flows	SIP-I	MGCF	SIP-NNI			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	SIP_Response (REL)	<del>(</del>	← SIP_Response			
	. , ,	<b>→</b>	→ ACK			

TP number	TP_207_008	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Pro	ogressIndicator 4 in an	unsuccessful final response into ATP in		
	the REL				
Test Purpose			ndicator value 4 in an unsuccessful final		
			esponse with encapsulated REL is sent		
	and an Access Transport F	Parameter is present co	ontaining a Progress Indicator #4		
ISUP Parameter values	REL: Access Transport				
	Progress Indica	tor			
	Progress De	escription='0000100'			
SIP Parameter values	SIP_Response:	SIP_Response:			
	xml version="1.0" encod</th <th colspan="3"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescri	ption> <b>0000100</b> <			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	•	→ INVITE		
			← 100 Trying		
	SIP_Response (REL)		← SIP_Response		
	ACK (RLC)	•	→ ACK		

TP number	TP_207_009	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML P the REL	Mapping of PSTN XML ProgressIndicator 5 in an unsuccessful final response into ATP in the REL		
Test Purpose			tor value 5 in an unsuccessful final	
			nse with encapsulated REL is sent	
	and an Access Transport	Parameter is present contain	ning a Progress Indicator #5	
ISUP Parameter values	IAM: USI=speech or 3,1	kHz audio, USI prime=unres	stricted digital info with T/A,	
	TMR=64 kbit/s pre	ferred, TMR prime = speech	or 3,1 kHz audio	
	<b>REL:</b> Access Transport			
	Progress Indic	ator		
	Progress D	escription='0000101'		
SIP Parameter values	SIP_Response:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator	ProgressIndicator		
	ProgressOctet4			
	ProgressDesci	ProgressDescription>0000101<		
Comments		•		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	INVITE	
	, ,	<b>+</b>	100 Trying	
	SIP_Response (REL)	<b>+ +</b>	SIP_Response	
		<b>→</b>	ACK	

Table 6.1.2.7-4: Received status codes on SIP side of O-MGCF mapping to REL

SIP_Response_VA	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	400 Bad Request
VA_02	403 Forbidden
VA_03	406 Not Acceptable
VA_04	408 Request Timeout
VA_05	410 Gone
VA_06	480 Temporarily Unavailable
VA_07	488 Not acceptable here
VA_08	500 Server Internal error
VA_09	502 Bad Gateway
VA_10	504 Server timeout
VA_11	603 Decline
VA_12	606 Not acceptable

	TD 007 040	In /	r., . = 0.4		
TP number	TP_207_010	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Rec	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML HighLa in REL	Mapping of PSTN XML HighLayerCompatibility in an unsuccessful final response into ATP in REL			
Test Purpose	Ensure that on receipt of an ur				
			se with encapsulated REL is sent		
			High layer compatibility IE and		
	the value is set to the value HI	_C_VA as indicated in table	6.1.2.5-1		
ISUP Parameter values	REL: Access Transport				
	High layer compatib				
	High layer chara	acteristics identification = <b>HL</b>	C_VA		
SIP Parameter values	SIP_Response:				
	PSTN XML MIME body	PSTN XML MIME body			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	HighLayerCompatibility	HighLayerCompatibility			
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<	Interpretation>100<			
	PresentationMethod	PresentationMethod>01<			
	HLOctet4	HLOctet4			
	HighLayerCharacteristics> <b>HLC_VA</b> <				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b> II	NVITE		
	,	<b>←</b> 1	00 Trying		
	SIP_Response (REL) ←		IP_Response		
	ACK (RLC) →		.CK		

TP number	TP_207_011	Reference	[1], clause 7.3.1	
	1		[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5	•		
Test Purpose name	Mapping of PSTN XML Bearer	Capability in an unsucces	ssful final response into ATP in REL	
Test Purpose	Ensure that on receipt of an un			
			vith encapsulated REL is sent and a	
	Access Transport Parameter is	s present containing a Be	arer Capability IE and the value is	
	set to the value ITC_value as i	ndicated in table 6.1.2.5-2	2	
ISUP Parameter values	REL: Access Transport			
	Bearer Capability			
	Information Tran	sfer Capability = ITC_val	ue	
SIP Parameter values	SIP_Response:			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00			
	InformationTransferCapability> ITC_value <			
	BCoctet4			
	TransferMode>00<			
	InformationTransfer	Rate>10000<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	SIP_Response (REL) ←	<b>←</b>	SIP_Response	
	ACK (RLC) →	<b>→</b>	ACK	

TP number	TP_207_012	Reference	[1], clause 7.3.1
ir ildilibei	11 _207_012	Kelefelice	
			[2], clause 7.2.3.2.12
TSS reference	SIP-I - SIP NNI/Basic call/Red	ceipt_of_4xx-5xx-6xx/	
Selection criteria	PICS 6.2.1/20		
Test Purpose name	Play media provided in an Err	or-Info header received in	an unsuccessful final response
Test Purpose			a associated with an URL present
	in an Error-Info header receiv	ed in an unsuccessful final	response as indicated in
	table 6.1.2.7-4		
ISUP Parameter values			
SIP Parameter values	SIP_Response: Error-Info: </th <th>ledia re source URL&gt;</th> <th></th>	ledia re source URL>	
Comments			
Message flows	SIP-I	MGCF	ISUP
	INVITE (IAM) →	<b>→</b>	INVITE
	100 Trying ←	<b>←</b>	100 Trying
	SIP_Response	<b>←</b>	SIP_Response
	ACK →	<b>→</b>	ACK
	media		
	Apply post test routine		

TP number	TP_207_014		Reference		[1], c	lause 7.3.5
TSS reference	SIP-I - SIP NNI/Ba	SIP-I - SIP NNI/Basic call/Receipt_of_3xx/				
Selection criteria						
Test Purpose name	Handling of 3xx res	Handling of 3xx responses after sending of INVITE				
Test Purpose	MGCF is to release switched core netw	When receiving a SIP response with a response code 3xx, the default behaviour of the MGCF is to release the call, where the MGCF sends to the preceding SIP-I based circuitswitched core network 480 Temporarily unavailable and encapsulate an ISUP REL message with a cause code value 127 (Interworking unspecified).				
ISUP Parameter values	REL: Cause=127					
SIP Parameter values						
Comments						
Message flows	SIP-I INVITE (IAM) 480 (REL) ACK (RLC)	→ ← →	MGCF	<b>←</b>	INVITE 3xx_VA ACK	SIP NNI

Table 6.1.2.7-5: Mapping of 3xx final responses in ISUP REL

3xx_VA	XML HighLayerCharacteristic
3xx_VA_01	300 Multiple Choices
3xx_VA_02	301 Moved Permanently
3xx_VA_03	302 Moved Temporarily
3xx_VA_04	305 Use Proxy
3xx_VA_05	380 Alternative Service

TP number	TP_207_015		Reference		[1], clause 7.3.1 [2], clauses 7.2, 7.2.3.2.1
TSS reference	SIP-I - SIP NNI	Basic call/Rece	eipt_of_4xx-5xx-6x	x/	[[-],
Selection criteria	PICS 6.2.1/3			-	
Test Purpose name		an UPDATE v	vithin an early dial	oa	
Test Purpose	Ensure that on	receipt of a 580	Precondition Fail	ure final rest	ponse after an UPDATE
					Cause value is set to 127
ISUP Parameter values					ired on this circuit or continuity
		erformed on pre			_
			ntinuity check succ	essful	
	REL: Cause=				
SIP Parameter values		orted: precondi			
		=curr:qos local			
		=curr:qos remo			
			latory local sendre	CV	
	a	=des:qos none	remote sendrecv		
	183: Require: 1	00rol			
		=curr:gos local	none		
		=curr:qos remo			
			latory local sendre	·CV	
			latory remote send		
		=conf:qos remo			
	UPDATE:				
	SDP a	=curr:qos local	sendrecv		
	а	=curr:qos remo	te none		
			latory local sendre		
	a	=des:qos mand	latory remote send	drecv	
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	→		→	INVITE
	100 Trying	<del>(</del>		<del>(</del>	100 Trying
	183 Session Pr			<b>←</b>	183 Session Progress
	PRACK	<b>→</b>		<b>→</b>	PRACK
	200 OK (PRAC	•		<del>-</del>	200 OK (PRACK)
	UPDATE	<b>→</b>		<b>→</b>	UPDATE
	580 Precondition	n <del>C</del>		<b>←</b>	580 Precondition Failure
	Failure (REL)	_			
	ACK (RLC)	<b>→</b>		<b>→</b>	ACK
			Apply post tes	t routine	

### 6.1.2.8 Receipt of a BYE

TP number	TP_208_001	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.13
TSS reference	SIP-I - SIP NNI/Basic call/Re	ceipt_of_BYE/	
Selection criteria			
Test Purpose name	BYE received, REL is sent		
Test Purpose		ne Cause value of the REL	n header is present, a BYE with is set to #16, the location is set to
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)  180 Ringing (ACM − free)	<b>→</b> <b>←</b> <b>←</b>	INVITE 100 Trying 180 Ringing
	200 OK (INVITE) ← (ANM) ACK →	<b>←</b> →	200 OK (INVITE) ACK
	BYE (REL) 200 OK (BYE) RLC	<b>←</b> →	BYE 200 OK (BYE)

TP number	TP_208_002	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.13
TSS reference	SIP-I - SIP NNI/Basic ca	all/Receipt_of_BYE/	
Selection criteria			
Test Purpose name	BYE received a Reason value	header is present, REL Cause	e derived from the Reason cause
Test Purpose			header is present, a BYE with rived from cause parameter in the
ISUP Parameter values	REL: Cause= <reason< th=""><th>cause&gt;</th><th></th></reason<>	cause>	
SIP Parameter values	BYE: Reason: cause		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b> →	INVITE
		<b>←</b>	100 Trying
	180 Ringing (ACM free)	<del></del>	180 Ringing
	ANM (200 OK) INVITE ACK	<b>← ← →</b>	200 OK (INVITE) ACK
	BYE (REL) 200 OK (BYE) (RLC)	<b>← ← →</b>	BYE 200 OK (BYE)

TP number	TP 208 003	F	Reference		[1], clause 7.3.1
Ti mamber	11 _200_000	ľ	(010101100		[2], clause 7.2.3.2.13
TSS reference	SIP-I - SIP NNI/Basic ca	all/Receir	ot of BYF/		[[2], 014430 7.2.0.2.10
Selection criteria	PICS 6.2.1/5	an/TCCCip	DI_0I_D1 L/		
Test Purpose name	Mapping of PSTN XML	Progress	Indicator 1 in a RV	F into	ο ΔΤΡ in the RFI
Test Purpose					r value 1 in a BYE request, a BYE
l est i dipose					Parameter is present containing a
	Progress Indicator #1	is serit a	ilu ali Access Tialis	sport	i alameter is present containing a
ISUP Parameter values	REL: Access Transpor	rt			
loor rarameter values	Progress Indi				
			ion='0000001'		
SIP Parameter values	BYE:	Descript	1011= 0000001		
on randinotor values	xml version="1.0" end</th <th>codina="i</th> <th>utf-8"?&gt;</th> <th></th> <th></th>	codina="i	utf-8"?>		
	PSTN	ocurry—	ati 0 .>		
	ProgressIndicator				
	ProgressOctet4				
	ProgressDes	cription>	0000001<		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>		<b>→</b>	INVITE
	,			<b>←</b>	100 Trying
	180 Ringing	<b>←</b>		<b>←</b>	180 Ringing
	(ACM – free)				3 0
	,				
	200 OK (INVITE)	<b>←</b>		<b>←</b>	200 OK (INVITE)
	(ANM)				
	ACK	<b>→</b>		<b>→</b>	ACK
	BYE (REL)	<b>←</b>		<b>←</b>	BYE
	200 OK (BYE) (RLC)	<b>→</b>		<b>→</b>	200 OK (BYE)
					//

TP number	TP_208_004	IR	eference	[1], clause 7.3.1
Transcr	11 _200_004	'`	Ciciciioc	[2], clause 7.3.1
TSS reference	SIP-I - SIP NNI/Basio	call/Pecein	t of RVE/	[[2], clause 1.2.3.2.13
Selection criteria	PICS 6.2.1/5	, call/ixecelp	(_OI_DTL/	
		/I Drogross	Indicator 2 in a BYE in	ate ATD in the DEI
Test Purpose name				
Test Purpose				or value 2 in a BYE request, a BYE
			iu an Access Transpo	rt Parameter is present containing a
ISUP Parameter values	Progress Indicator #2			
150P Parameter values	REL: Access Trans			
	Progress I		100000401	
SIP Parameter values	J	ss Description	on='0000010'	
SIP Parameter values	BYE:		4 010.	
	<pre><?xml version="1.0" ( PSTN</pre></pre>	encoaing= u	ti-8 ?>	
	ProgressIndicator	-		
	ProgressOcte			
		ı4 escription> <b>(</b>	000010-	
Comments	Trogressi	escription>t	7000010<	
Message flows	SIP-I		MGCF	SIP NNI
wessage nows	INVITE (IAM)	<b>→</b>	• • • • • • • • • • • • • • • • • • •	INVITE
	INVITE (IAIVI)	7	<del>-</del>	100 Trying
	100 Dinging	<b>←</b>	<del>-</del>	, ,
	180 Ringing (ACM - free)	~	~	180 Ringing
	(AOM - 1166)			
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE)
	(ANM)	•	•	200 OK (INVITE)
	ACK	<b>→</b>	<b>→</b>	ACK
	AOR	•	•	AOR
	BYE (REL)	<del>(</del>	<b>←</b>	BYE
	200 OK (BYE)	÷	÷	200 OK (BYE)
	(RLC)	-	•	200 011 (812)

TP number	TP_208_005		Reference		[1], clause 7.3.1
					[2], clause 7.2.3.2.13
TSS reference	SIP-I - SIP NNI/Basic ca	II/Rece	ipt_of_BYE/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML F	rogres	ssIndicator 4 in a B	YE into	o ATP in the REL
Test Purpose	Ensure that on receipt of	f a PST	N XML ProgressIn	dicato	r value 4 in a BYE request, a BYE
	with encapsulated REL i	s sent a	and an Access Trai	nsport	Parameter is present containing a
	Progress Indicator #4				
ISUP Parameter values	<b>REL:</b> Access Transpor	t			
	Progress Indi	cator			
	Progress	Descrip	tion='0000100'		
SIP Parameter values	BYE:				
	xml version="1.0" end</th <th>oding=</th> <th>"utf-8"?&gt;</th> <th></th> <th></th>	oding=	"utf-8"?>		
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDesc	cription	>0000100<		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
	180 Ringing (ACM)	<b>←</b>		<b>←</b>	180 Ringing
	200 OK (INVITE)	←		<b>←</b>	200 OK (INVITE)
	(ANM)				, ,
	ACK '	<b>→</b>		<b>→</b>	ACK
	BYE (REL)	<b>←</b>		<b>←</b>	BYE
	200 OK (BYE) (RLC)	<b>→</b>		<b>→</b>	200 OK (BYE)

TP number	TP_208_006	Reference	[1], clause 7.3.1
T00			[2], clause 7.2.3.2.13
TSS reference	SIP-I - SIP NNI/Basic call/R	eceipt_of_BYE/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Prog		
Test Purpose			ator value 5 in a BYE request, a BYE
		ent and an Access Transp	ort Parameter is present containing a
	Progress Indicator #5		
ISUP Parameter values			estricted digital info with T/A,
		red, TMR prime = speech	n or 3,1 kHz audio
	REL: Access Transport		
	Progress Indicate		
		cription='0000101'	
SIP Parameter values	BYE:	" (6.000	
	xml version="1.0" encodir</th <th>ng="utf-8""?&gt;</th> <th></th>	ng="utf-8""?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4 ProgressDescript	ion. 0000101	
Comments	FlogressDescript	1011>0000101<	
	SIP-I	MGCF	SIP NNI
Message flows		WIGCF	*** *****
	IAM →	<del>-</del>	
	400 D: :	•	
	180 Ringing ←	•	180 Ringing
	(ACM – free)		
	000 014 (INI) (ITE)	_	000 01/ (INI)/(TE)
	200 OK (INVITE)	•	- 200 OK (INVITE)
	(ANM)	-	A O.K
	ACK →	-	ACK
	DVE (DEL)		- DVE
	BYE (REL)	<b>*</b>	5.5
	200 OK (BYE) (RLC) →	-	200 OK (BYE)

TP number	TP_208_007	Reference	[1], clause 7.3.1		
T00 == f=======	OLD I OLD MAIL/Dasia	-II/D i-t -t DVE/	[2], clause 7.2.3.2.13		
TSS reference	SIP-I - SIP NNI/Basic c	all/Receipt_of_BYE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name		HighLayerCompatibility i			
Test Purpose			N XML HighLayerCompatibility element is		
			d a Access Transport Parameter is		
			nd the value is set to the value HLC_VA		
IOUR R	as indicated in table 6.1	_			
ISUP Parameter values	REL: Access Transpo				
	High layer co		C 1110 MA		
CID Deserve deservels		er characteristics identification	IIION = MLC_VA		
SIP Parameter values	BYE:				
	PSTN XML MIME body				
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	HighLayerCompatibility HLOctet3				
	CodingStand	dard>00>			
	Interpretation				
		Method>01<			
	HLOctet4				
		naracteristics>HLC_VA<			
Comments	: ::g::=a; :: 3:				
Message flows	SIP-I	MGCF	SIP NNI		
3.	INVITE (IAM)	<b>→</b>	→ INVITE		
			← 100 Trying		
	180 Ringing	<b>←</b>	← 180 Ringing		
	(ACM)	-	1 100 1 1119		
	(· · · · · · · )				
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)		
	(ANM)				
	ACK	<b>→</b>	→ ACK		
	BYE (REL)	<b>←</b>	<b>←</b> BYE		
	200 OK (BYE) (RLC)	<b>→</b>	→ 200 OK (BYE)		
			\		

TP number	TP_208_008	Reference		[1], clause 7.3.1	
				[2], clause 7.2.3.2.13	
TSS reference	SIP-I - SIP NNI/Basic call/F	Receipt_of_BYE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Be				
Test Purpose				BearerCapability element is	
	present, a BYE with encap				
		r Capability IE and the	value is	set to the value ITC_value as	
	indicated in table 6.1.2.5-2				
ISUP Parameter values	REL: Access Transport				
	Bearer Capabilit				
		Fransfer Capability = F	C_value	9	
SIP Parameter values	BYE:				
	<pre><?xml version="1.0" encod</pre></pre>	ing="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard				
		sferCapability> <b>ITC_v</b> a	alue <		
	BCoctet4				
	TransferMode>0	•			
	Information I ran	sferRate>10000<			
Comments					
Message flows	SIP-I	MGCF	<b>.</b>	SIP NNI	
	IAM -	•		NVITE	
				00 Trying	
	180 Ringing ←		<b>←</b> 1	80 Ringing	
	(ACM – free)				
	200 OK (INVITE)	•	← 2	200 OK (INVITE)	
	(ANM)				
	ACK -	•	<b>→</b> A	/CK	
	BYE (REL)		<b>←</b> E	BYE	
	200 OK (BYE) → (RLC)	•	<b>→</b> 2	200 OK (BYE)	

# 6.1.2.9 Receipt of the Release Message

TP number	TP_209_001	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rec	eipt_of_REL/	
Selection criteria			
Test Purpose name	REL received before an early	dialogue was established,	a CANCEL is sent
Test Purpose			ated REL message before an early d the Reason header is present,
	the cause value is derived from		
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: cause= <c< th=""><th>ause value&gt;</th><th></th></c<>	ause value>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	100 Trying ←	<b>←</b>	100 Trying
	CANCEL/BYE (REL) →	<b>→</b>	CANCEL
	200 OK (CANCEL) (RLC) ←	<b>←</b>	200 OK (CANCEL)
	487 Request Terminated ←	<b>←</b>	487 Request Terminated
	ACK →	<b>→</b>	ACK

TP number	TP_209_002	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic cal	II/Receipt_of_REL/	
Selection criteria		·	
Test Purpose name	REL received after an ea	arly dialogue with 180 was esta	ablished, a CANCEL is sent
Test Purpose	Ensure that on receipt of	a CANCEL/BYE with encapsu	lated REL message after an early
	dialogue due to a 180 Ri	nging response was establishe	ed, a CANCEL request is sent and
	the Reason header is pre	esent, the cause value is deriv	ed from the Cause value in the
	received REL		
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: caus	e= <cause value=""></cause>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	180 Ringing	<b>+ +</b>	180 Ringing
	(ACM – free)		
	CANCEL/BYE (REL)	<b>→</b> →	CANCEL
	200 OK (CANCEL)	<b>+ +</b>	200 OK (CANCEL)
	(RLC)		,
	487 Request	<b>+ +</b>	487 Request Terminated
	Terminated		•
	Tommatou		

TP number	TP_209_003	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic ca	II/Receipt_of_REL/	
Selection criteria		•	
Test Purpose name	REL received after an ea	arly dialogue with 181 was esta	ablished, a CANCEL is sent
Test Purpose	Ensure that on receipt of	f a CANCEL/BYE with encapsu	lated REL message after an early
	dialogue due to a 181 Ca	all is Being Forwarded respons	se was established, a CANCEL
	request is sent and the F	Reason header is present, the	cause value is derived from the
	Cause value in the recei	ved REL	
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: caus	e= <cause value=""></cause>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	<b>U</b>	111.001	<b>O</b>
	INVITE (IAM)	<b>→</b> →	INVITE
			<del></del>
occuge none		<b>→</b>	INVITE
	INVITE (IAM)  181 Being forwarded (ACM)  CANCEL/BYE (REL)	→	INVITE 100 Trying
	INVITE (IAM)  181 Being forwarded (ACM)	→	INVITE 100 Trying 181 Being forwarded
	INVITE (IAM)  181 Being forwarded (ACM)  CANCEL/BYE (REL) 200 OK (CANCEL)	→	INVITE 100 Trying 181 Being forwarded CANCEL

TP number	TP_209_004	Re	eference	[1], clause 7.3.1		
TCC reference	[2], clause 7.2.3.2.14   SIP-I - SIP NNI/Basic call/Receipt of REL/					
TSS reference	SIP-I - SIP ININI/Basic ca	ali/Receipt	_0I_REL/			
Selection criteria						
Test Purpose name						
Test Purpose	REL received after an e	arly dialog	ue with 182 was esta	blished, a CANCEL is sent		
ISUP Parameter values	Ensure that on receipt of a CANCEL/BYE with encapsulated REL message after an early					
	dialogue due to a 182 Queued response was established, a CANCEL request is sent and					
	the Reason header is present, the cause value is derived from the Cause value in the					
	received REL					
SIP Parameter values	REL: Cause value					
Comments	CANCEL: Reason: cau	se= <caus< th=""><th>e value&gt;</th><th></th></caus<>	e value>			
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
		<b>←</b>	<b>←</b>	100 Trying		
	182 Queued	<b>←</b>	<b>+</b>	182 Queued		
	(ACM)					
	CANCEL/BYE (REL)	<b>→</b>	<b>→</b>	CANCEL		
	200 OK (CANCEL)	<b>←</b>	<b>←</b>	200 OK (CANCEL)		
	(RLC)	-	•	255 5.1 (5/11/522)		
	487 Request	<b>←</b>	<b>←</b>	487 Request Terminated		
	Terminated		_	101 110 40001 101111111000		
	ACK	<b>→</b>	<b>→</b>	ACK		

TP number	TP_209_005	Referer	100	[1], clause 7.3.1		
i Filallibei	17_209_005	Kelelel	ice			
				[2], clause 7.2.3.2.14		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_REL/					
Selection criteria						
Test Purpose name	REL received after an e	REL received after an early dialogue with 183 was established, a CANCEL is sent				
Test Purpose	Ensure that on receipt of a CANCEL/BYE with encapsulated REL message after an early					
	dialogue due to a 183 Session Progress response was established, a CANCEL request is					
	sent and the Reason header is present, the cause value is derived from the Cause value in					
	the received REL					
ISUP Parameter values	REL: Cause value					
SIP Parameter values	CANCEL: Reason: cause= <cause value=""></cause>					
Comments						
Message flows	SIP-I	MC	GCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
	100 Trying	<b>←</b>	<b>←</b>	100 Trying		
	183 Session Progress	<b>←</b>	<b>←</b>	183 Session Progress		
	(ACM)			. co Coco.o rog. coc		
	(* 10)					
	CANCEL/BYE	<b>→</b>	<b>→</b>	CANCEL		
	(REL)	•	-	37111322		
	200 OK (CANCEL)	<b>←</b>	<b>←</b>	200 OK (CANCEL)		
	(RLC)	•	•	200 OR (CANCLL)		
		<b>←</b>	<b>←</b>	197 Paguast Tarminated		
	487 Request	~	~	487 Request Terminated		
	Terminated	_	_			
	ACK	<b>→</b>	<b>→</b>	ACK		

TP number	TP_209_006	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.14			
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_REL/					
Selection criteria	On 1 On 1444, Basis sail, 1000 pt_si_102					
Test Purpose name	REL received in the confirmed dialogue a BYE is sent					
Test Purpose	Ensure that on receipt of a B	YE with encapsulated REL	message in the confirmed			
	dialogue, a BYE request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL					
ISUP Parameter values	REL: Cause value					
SIP Parameter values	BYE: Reason: cause= <cause value=""></cause>					
Comments						
Message flows	SIP-I	MGCF	IP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
	100 Trying ←	<b>←</b>	100 Trying			
	180 Ringing (ACM − free)	<b>←</b>	180 Ringing			
	200 OK (INVITE) (ANM)	<b>←</b>	200 OK (INVITE)			
	ÀCK →	<b>→</b>	ACK			
	BYE (REL) →	<b>→</b>	BYE			
	200 OK (BYE)	+	200 OK (BYE)			

TP number	TP_209_007		Reference		[1], clause 7.3.1
i P number	17_209_007		Reference		
T00 (	OLD 1 OLD VIVING	11/15	· · · · · · · · · · · · · · · · · · ·		[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic	call/Recei	pt_of_REL/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP Progress Indicator #1 into PSTN XML ProgressIndicator #1 in the BYE				
Test Purpose	Ensure that on receipt of a BYE with encapsulated REL message and a ATP containing a Progress Indicator #2 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #1				
ISUP Parameter values	REL: Access Transport				
	Progress In	dicator			
	Progress Description='0000001'				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	SIP NNISIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>		<b>→</b>	NVITE
	,			<b>←</b> 1	00 Trying
	180 Ringing (ACM)	<b>←</b>			80 Ringing
	100 1 111 1911 19 (7 10111)	=			
	200 OK (INVITE)	<b>←</b>		<b>←</b> 2	200 OK (INVITE)
	(ANM)	•		• 2	oo on (iiviii)
	ACK	<b>→</b>		<b>→</b> A	ACK
	ACK	7		<b>7</b> F	NOR .
	DVE (DEL)	<b>→</b>		<b>→</b> F	BYF
	BYE (REL)				- · <del>-</del>
	200 OK (BYE) (RLC)	+		<b>←</b> 2	200 OK (BYE)

TP number	TP_209_008	Reference	)	[1], clause 7.3.1
T00		(5 :	,	[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call	Receipt_of_REL		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	BYE			ML ProgressIndicator #2 in the
Test Purpose		ne confirmed dia	logue, a BYE re	nessage and a ATP containing a equest is sent and a PSTN XML set to #2
ISUP Parameter values	REL: Access Transport			
	Progress Indica	ator		
		escription='0000	010'	
SIP Parameter values	BYE:			
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th> <th></th>	ding="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescr	iption> <b>0000010</b> <	:	
Comments				
Message flows	SIP NNISIP-I	MGC	F	SIP NNI
	INVITE (IAM)	→	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	180 Ringing (ACM – free)	<del>-</del>	+	180 Ringing
	200 OK (INVITE) (ANM)	<del>-</del>	<b>←</b>	200 OK (INVITE)
	ACK -	<b>&gt;</b>	<b>→</b>	ACK
	BYE (REL)	<b>→</b>	<b>→</b>	BYE
		<b>+</b>		200 OK (BYE)

TP number	TP_209_009	Reference	[1], clause 7.3.1	
T00 (		<u> </u>	[2], clause 7.2.3.2.14	
TSS reference	SIP-I - SIP NNI/Basic call/Re	ceipt_of_REL/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of REL ATP Progres	ss Indicator #4 into PST	N XML ProgressIndicator #4 in the	
Test Purpose		onfirmed dialogue, a B	REL message and a ATP containing a YE request is sent and a PSTN XML n is set to #4	
ISUP Parameter values	REL: Access Transport			
	Progress Indicator			
	Progress Desc	ription='0000100'		
SIP Parameter values	BYE:			
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	on> <b>0000100</b> <		
Comments				
Message flows	SIP NNISIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	•	→ INVITE	
		•	← 100 Trying	
	180 Ringing (ACM) ←	•	← 180 Ringing	
	200 OK (ANM) ←		€ 200 OK (INVITE)	
	ACK →		→ ACK	
	AUR 7		AON	
	BYE (REL) →		<b>→</b> BYE	
	200 OK (BYE) (RLC)	•	€ 200 OK (BYE)	

TP number	TP 209 010	Reference	[1], clause 7.3.1			
	11 _200_010	1.0.0.0.00	[2], clause 7.2.3.2.14			
TSS reference	SIP-I - SIP NNI/Basic call/Rec	eipt of REL/	[2], o.d.co : :2.o.2. :			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL ATP Progress BYE	s Indicator #5 into PSTN	XML ProgressIndicator #5 in the			
Test Purpose	Ensure that on receipt of a BYE with encapsulated REL message and an ATP containing a Progress Indicator #5 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #5					
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
		ption='0000101'				
SIP Parameter values	BYE:					
	xml version="1.0" encoding PSTN</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n> <b>0000101</b> <				
Comments						
Message flows		MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	180 Ringing ← (ACM)	+	180 Ringing			
	200 OK (INVITE) ← (ANM)	<b>←</b>	200 OK (INVITE)			
	ACK →	<b>→</b>	ACK			
	BYE (REL) 200 OK (BYE) (RLC)  →	<b>→</b>	BYE 200 OK (BYE)			

TP number	TP_209_011	Re	ference		[1], clause 7.3.1
T00	OID I OID NNI/D:	- II/D : t	-f DEL/		[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic ca	ali/Receipt_	OT_REL/		
Selection criteria	PICS 6.2.1/5			DOTN	VAN IP II O GER
Test Purpose name	the BYE	<u> </u>	. ,		XML HighLayerCompatibility in
Test Purpose	High layer compatibility XML HighLayerCompat indicated in table 6.1.2.	IE in the co ibility is pre 1-4	onfirmed dialogu	e, a B`	message and an ATP containing a YE request is sent and a PSTN naracteristics is set to <b>HLC_VA</b> as
ISUP Parameter values	REL: Access Transpo				
	High layer co				
	High laye	r character	istics identificati	on = <b>H</b>	LC_VA
SIP Parameter values	BYE:				
	PSTN XML MIME body				
	xml version="1.0" en</th <th>coding="utf</th> <th>-8"?&gt;</th> <th></th> <th></th>	coding="utf	-8"?>		
	PSTN				
	HighLayerCompatib	ility			
	HLOctet3				
	CodingStand				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacteristics> <b>HLC_VA</b> <				
Comments					
Message flows	SIP NNISIP-I		MGCF		SIP NNI
	INVITE (IAM)	→		<b>→</b>	INVITE
				<b>←</b>	100 Trying
	180 Ringing	<b>←</b>		<b>←</b>	180 Ringing
	(ACM – free)				
	ľ ,				
	200 OK (INVITE)	<b>←</b>		<b>←</b>	200 OK (INVITE)
	(ANM)				
	ACK	<b>→</b>		<b>→</b>	ACK
	BYE (REL)	<b>→</b>		<b>→</b>	BYE
	200 OK (BYE) (RLC)	<del>+</del>		_	200 OK (BYE)

	TP_209_012	Reference		[1], clause 7.3.1	
				[2], clause 7.2.3.2.14	
TSS reference	SIP-I - SIP NNI/Basic call/	Receipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name				earer Capability in the BYE	
Test Purpose				essage and an ATP containing a	
				uest is sent and a PSTN XML	
			nsferCapal	bility is set to <b>ITC_value</b> as	
	indicated in table 6.1.2.1-6				
ISUP Parameter values	REL: Access Transport				
	Bearer Capabili				
		Transfer Capability = I	IC_value	1	
SIP Parameter values	BYE:				
	xml version="1.0" encod</th <th>ling="utf-8"?&gt;</th> <th></th> <th></th>	ling="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard		aluo -		
	InformationTransferCapability> <b>ITC_value</b> < BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments	inionialion nation 10000				
Message flows	SIP NNISIP-I	MGCF		SIP NNI	
	INVITE (IAM)		<b>→</b> IN	NVITE	
	100 Trying	_	<b>←</b> 1	00 Trying	
	180 Ringing			80 Ringing	
	(ACM)				
	(**************************************				
	200 OK (INVITE) ← 200 OK (INVITE)				
	(ANM)				
	ACK → ACK				
	BYE (REL)	•	<b>→</b> B	YE	
	200 OK (BYE) (RLC)	•	_	00 OK (BYE)	

#### 6.1.2.10 Void

#### 6.1.2.11 Autonomous Release at O-MGCF

TP number	TP_211_003	Ref	erence	[1], clause 7.3.1		
				[2], clause 7.2.3.2.16		
TSS reference	SIP-I - SIP NNI/Basic o	call/Autonome	ous_Release/			
Selection criteria						
Test Purpose name	Call is released to due dialogue	message co	mpatibility instructior	r 'Release call' received in the early		
Test Purpose	message compatibility	Ensure that on receipt of an unknown ISUP message in the early dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP CANCEL request is sent and a Reason beader field is present				
ISUP Parameter values		??? = unknown message:  Message compatibility information: Release call indicator=release call  REL: Cause=97				
SIP Parameter values	CANCEL: Reason:					
Comments	For an unknown messa	age use a me	essage type unknow	n in the SUT.		
Message flows	SIP-I		MGCF	SIP NNI		
_	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
	180 Ringing (ACM – free)	<b>←</b>	+	180 Ringing		
	???	<b>→</b>				
	500 Server Internal ← → CANCEL Error (REL#97)					
	ACK (RLC)	→	<b>←</b>	200 OK (CANCEL)		
	·		<b>←</b>	487 Request Terminated		
			<b>→</b>	ACK		

TP number	TP_211_004	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.16			
TSS reference	SIP-I - SIP NNI/Basic ca	ll/Autonomous_Release/				
Selection criteria						
Test Purpose name	Call is released to due n confirmed dialogue	nessage compatibility instruc	tion 'Release call' received in the			
Test Purpose	message compatibility is	Ensure that on receipt of an unknown ISUP message in the confirmed dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP BYE request is sent and a Reason header field is present				
ISUP Parameter values		??? = unknown message:  Message compatibility information: Release call indicator=release call  REL: Cause=97				
SIP Parameter values	BYE: Reason:					
Comments	For an unknown messag	ge use a message type unkn	own in the SUT.			
Message flows	SIP NNISIP-I	MGCF	ISUP			
	INVITE (IAM)	<b>→</b>	→ INVITE			
	180 Ringing (ACM – free)	<b>←</b>	← 180 Ringing			
	·	<b>←</b>	€ 200 OK (INVITE)			
		-	→ ACK			
	???	<b>→</b>				
	500 Server Internal Error (REL#97)	<b>←</b>	<b>→</b> BYE			
	ACK (RLC)	<b>→</b>	€ 200 OK (BYE)			

TP number	TP_211_005	Reference	[1], clause 7.3.1		
<b>TOO</b> (	[2], clause 7.2.3.2.16				
TSS reference	SIP-I - SIP NNI/Basic call/A	utonomous_Release/			
Selection criteria					
Test Purpose name	•	meter compatibility instruction	on 'Release call' received in the		
	early dialogue				
Test Purpose			nd an unknown parameter is		
		patibility instruction is set to			
			99 or 110. In addition a SIP		
		nd a Reason header field is p			
ISUP Parameter values	CPG: Parameter compatib	ility information: Release ca	II indicator=release call		
	REL: Cause=99 or 110	REL: Cause=99 or 110			
SIP Parameter values	CANCEL: Reason:				
Comments	For an unknown parameter	use a parameter type unknown	own in the SUT.		
Message flows	SIP NNISIP-I	MGCF	ISUP		
	INVITE (IAM) →	<b>→</b>	INVITE		
	180 Ringing ←	<b>←</b>	180 Ringing		
	(ACM –free)				
	183 Session Progress → (CPG)				
	500 Server Internal ← → CANCEL Error (REL#99 /110)				
	ACK (RLC) →	<b>←</b> <b>←</b> →	200 OK (CANCEL) 487 Request Terminated ACK		

TP number	TP_211_006	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.16		
TSS reference	SIP-I - SIP NNI/Basic call/A	Autonomous Release/	[[2], 014436 7.2.0.2.10		
Selection criteria	on i on ivivi bacic cam.	tatoriomedo_rteledeo/			
Test Purpose name	Call is released to due para confirmed dialogue	ameter compatibility instruct	ion 'Release call' received in the		
Test Purpose	Ensure that on receipt of a CPG in the confirmed dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP BYE request is sent and a Reason header field is present				
ISUP Parameter values	CPG: Parameter compatibility information: Release call indicator=release call REL: Cause=99 or 110				
SIP Parameter values	BYE: Reason:				
Comments	For an unknown parameter	use a parameter type unkr	own in the SUT.		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE (IAM) →	<b>→</b>	INVITE		
	180 Ringing ← (ACM - free)	<b>←</b>	180 Ringing		
	200 OK (INVITE) (ANM)	<b>+</b>	200 OK (INVITE)		
	ÀCK ´ →	<b>→</b>	ACK		
	INFO (CPG – → conference established)				
	BYE (REL# 99 or 110) ← 200 OK (BYE) → (RLC)		BYE 200 OK (BYE)		

# 6.2 Supplementary Services

### 6.2.1 Void

# 6.2.2 Connected line presentation and restriction (COLP/COLR)

TP number	TP_302_001	Reference	[1], clause 7.2.1
	DOTN COVOCI /		[2], clause 7.4.2
TSS reference	PSTN-SS/COL/		
Selection criteria	NOT PICS 6.3.4/1 AND PICS 6		
Test Purpose name	The SUT does not invoke the C		
Test Purpose	Ensure that on receipt of an IN'		
	service, an INVITE with encaps		
	indicator field of the Optional fo	rward call indicators paramete	r of the IAM to 'not
	requested'. A received connect	ed number is not interworked	
ISUP Parameter values	IAM: Optional forward	call indicators = 'not requested	d'
	ANM/CON: Connected numb	per present	
SIP Parameter values	200 OK: P-Asserted-Identity	not present	
Comments			
Message flows	SIP-NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
	0405.4		
	CASE A	_	
	180 Ringing ←	<b>←</b>	180 Ringing
			(ACM – free)
	200 OK (INVITE) ←	<b>←</b>	200 OK (INVITE) (ANM)
	ACK →	<b>→</b>	ACK
	0.05		
	CASE B	-	000 014 (001)
	200 OK (INVITE)		200 OK (CON)
	ACK →	<b>→</b>	ACK
		Apply post test routine	

TP number	TP_302_002	Reference	[1], clause 7.2.1		
TSS reference	PSTN-SS/COL/		[2], clause 7.4.2		
Selection criteria	PICS 6.3.4/1 AND PICS 6.3.1/	1 AND DICS 6 2 2/2			
Test Purpose name					
Test Purpose name	The SUT invokes the COLP service presentation allowed  Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an				
	INVITE with encapsulated IAM field of the Optional forward care connected number presentation.  Connected number  Nature of Address Indicator editional (significant) number 200 OK INVITE P-Asserted Add CC (of the country which signals to construct an Editional number 200 OK INVITE P-Asserted Address Indicator editional number 200 OK INVITE P-Asserted Map complete Connected the URI. Prefix number with Address presentation restriction is presentation allowed Privacy header is not presentation.	I is sent and the Connected Lill indicators parameter of the n allowed is interworked.  I wal to ber'  I will dentity here the SUT is located) to Clean the URI. Prefix the Clean tity number address signals to complete the SUT is the URI. The control of the "+" in the Format '+ CC NI in indicator the control of the contr	Line Identity Request indicator a IAM to 'requested'. A received connected number address a number with '+' in the format '+' construct an E.164 number in DC SN'.		
ISUP Parameter values	ANM/CON: Connected num		ted'		
SIP Parameter values	INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present				
Comments					
Message flows	SIP NNI INVITE 100 Trying	_	SIP-I NVITE (IAM)		
	CASE A  180 Ringing  200 OK (INVITE)  ACK  CASE B	•			
	200 OK (INVITE)		200 OK (INVITE) (CON) ACK		

TP number	TP_302_003	Reference	[1], clause 7.2.1		
			[2], clause 7.4.2		
TSS reference	PSTN-SS/COL/				
Selection criteria		6.3.1/1 AND PICS 6.3.2			
Test Purpose name		OLP service presentation			
Test Purpose	Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an				
		INVITE with encapsulated IAM is sent and the Connected Line Identity Request indicator			
			eter of the IAM to 'requested'. A received		
		entation restricted is inter	worked		
	Connected number				
	Nature of Address Indic				
	- 'national (significan				
	200 OK INVITE P-A		-tl) t Otd		
			ated) to Connected number address		
	CC NDC SN.'	an E.164 number in the	URI. Prefix number with '+' in the format '+		
	- 'international numb	0 r'			
	200 OK INVITE P-A				
			ignals to construct an E.164 number in		
		nber with "+" in the Forma			
	Address presentation re		R + OO NDO SIV.		
	- 'presentation restric				
	Privacy: id	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
ISUP Parameter values	IAM: Optional f	forward call indicators = 'r	equested'		
	ANM/CON: Connecte				
SIP Parameter values		dentity present			
	200 OK: P-Asserted-Id	dentity present			
	Privacy: id				
Comments	CID NINI	МООТ	OID I		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<del>)</del>	→ INVITE (IAM)		
	100 Trying	<b>←</b>			
	0.405.4				
	CASE A	_	7 (00 D) ( (AOM ( )		
	180 Ringing	<del>(</del>	← 180 Ringing (ACM – free)		
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) (ANM)		
	ACK	<b>→</b>	→ ACK		
	CASE B				
	200 OK (INVITE)	<del>(</del>	← 200 OK (INVITE) (CON)		
	ACK	<b>→</b>	→ ACK		
		Apply post tes	t routine		

TP number	TP_302_004	Reference	[1], clause 7.3.1
			[2], clause 7.4.2
TSS reference	PSTN-SS/COL/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	2	
Test Purpose name	COL request is set to 'not requ	iested'	
Test Purpose			e Identity Request indicator in the
			requested', no P-Asserted-Identity
			present. No connected number is
	sent in a 200 OK (INVITE) with	n encapsulated ANM or CO	ON.
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	CASE A		
	180 Ringing ←	<del>-</del>	180 Ringing
	(ACM – free)		
	200 OK (INVITE) ←	<b>←</b>	200 OK (INVITE)
	(ANM)		
	ACK →	<b>→</b>	ACK
	CASE B		
	ANM ←	<b>←</b>	200 OK (INVITE)
	ACK →	<b>→</b>	ACK
		Apply post test routing	ne

TP number	TP_302_005	Reference	[1], clause 7.3.1		
			[2], clause 7.4.2		
TSS reference		PSTN-SS/COL/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/2			
Test Purpose name	COL request is set to 'request				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', the P-Asserted-Identity received in a provisional response is sent in the 200 OK (INVITE) with encapsulated ANM.  Coding of Connected number parameter  Number incomplete indicator equal to 'Complete' Numbering Plan Indicator equal to 'ISDN/Telephony (Recommendation E. 164 [i. 1])' Nature of Address Indicator  If CC encoded in the URI is equal to the CC of the country where MGCF 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"  Address Presentation Restricted Indicator derived from the Privacy header according				
	the mapping as described in table 6.2.2-1				
ISUP Parameter values	IAM: Optional Forward Call Indicators Connected Line Identity Request = requested ANM: Connected number Presentation restriction Privacy_VA				
SIP Parameter values	180:	<u> </u>			
_	P-Asserted-Identity				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<del>)</del>	INVITE		
	400 Dia sia s (40M)	<del>(</del>	100 Trying		
	180 Ringing (ACM) ← 200 OK (INVITE) ←	<b>←</b>	180 Ringing		
	200 OK (INVITE) ← (ANM)	7	200 OK (INVITE)		
	ACK →	_	ACK		
	Apply post test routine				
<u> </u>		rippiy post test routi	110		

TP number	TP_302_006	Reference	[1], clause 7.3.1			
			[2], clause 7.4.2			
TSS reference	PSTN-SS/COL/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3					
Test Purpose name			eceived in a 200 OK response			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Connected Line					
	Identity Request indicator in the Optional Forward Call Indicators parameter is set to					
		'requested', the P-Asserted-Identity received in a 200 OK response is sent in the 200 OK				
	response with encapsulated					
	Coding of Connected number					
	Number incomplete indic		(5)			
			(Recommendation E.164 [i.1])			
	Nature of Address Indica					
			ne country where MGCF is located			
		SUP node is located in the	same country then set to			
	"national (significant) number" else set to					
	"international nur	nber"				
			om the Privacy header according			
	the mapping as describe		g			
ISUP Parameter values	IAM: Optional Forward Ca					
	Connected Line Identity Request = requested					
	ANM: Connected number					
	Presentation restriction Privacy_VA					
SIP Parameter values	200:					
	P-Asserted-Identity					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	180 Ringing ← 180 Ringing (ACM – free)					
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)					
	ACK →	<b>→</b>	ACK			
	Apply post test routine					
			-			

TP number	TP_302_007	Reference	[1], clause 7.3.1		
TSS reference	PSTN-SS/COL/		[2], clause 7.4.2		
Selection criteria					
	PICS 6.3.1/1 AND PICS 6.3.2		animadia a 200 OK managa		
Test Purpose name	COL request is set to request				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', if no provisional response was received the P-Asserted-Identity received in a 200 OK response is sent in the 200 OK with encapsulated CON.  Coding of Connected number parameter  Number incomplete indicator equal to 'Complete'  Numbering Plan Indicator equal to 'ISDN/Telephony (Recommendation E.164 [i.1])'  Nature of Address Indicator  If CC encoded in the URI is equal to the CC of the country where MGCF 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"				
	Address Presentation Restricted Indicator derived from the Privacy header according				
ISUP Parameter values	the mapping as described in table 6.2.2-1  IAM: Optional Forward Call Indicators Connected Line Identity Request = requested  CON: Connected number				
	Presentation restrict	tion Privacy VA			
SIP Parameter values	200:	don'i iivacy_va			
on randincter values	P-Asserted-Identity				
Comments					
Message flows	SIP-I	SIP-I MGCF SIP NNI			
<b>3</b>	INVITE (IAM) →	<b>→</b>	INVITE		
	200 OK (INVITE) ← (ANM)	<del>-</del>	100 Trying 200 OK (INVITE)		
	ACK → Apply post test routine	<b>→</b>	ACK		

Table 6.2.2-1: Mapping of Privacy value into Address presentation restriction indicator

Privacy_VA	Privacy value	Address Presentation Restricted Indicator
Privacy_VA_01	Header	Presentation restricted
Privacy_VA_02	User	Presentation restricted
Privacy_VA_03	None	Presentation allowed
Privacy_VA_04	ld	Presentation restricted
Privacy_VA_05	Privacy header not present	Presentation allowed

#### 6.2.3 Malicious call identification

TP number	TP_303_001	Reference	[1], clause 7.2.1
			[2], clause 7.4.4
TSS reference	PSTN-SS/MCID/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	3	
Test Purpose name	MCID request before ACM		
Test Purpose	Ensure that a MCID request be	efore an ACM received in an IS	SUP IDR is discarded without
	disrupt the call setup procedure	e. The sending of an IRS is op	tional
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE ->	<b>→</b>	INVITE (IAM)
	100 Trying ←	•	
		<b>←</b>	183 Session Progress (IDR)
	CASE A	<b>→</b>	INFO (IRS)
			,
	CASE B		No response
		Apply post test routine	•

TP number	TP 303 002	Reference	[1], clause 7.3.1
			[2], clause 7.4.4
TSS reference	PSTN-SS/MCID/	·	
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/3	
Test Purpose name	MCID request after ACN	Л	
Test Purpose	Ensure that a MCID req	uest after an ACM receive	ed in an ISUP IDR is discarded without
	disrupt the call setup pro	ocedure. The sending of a	n IRS is optional
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP SIP-I	MGCF	SIP NNI
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	
	180 Ringing	<b>←</b>	180 Ringing (ACM)
			← 183 Session Progress (IDR)
	CASE A		→ INFO (IRS)
	CASE B		No response
		Apply post test	routine

## 6.2.4 Subaddressing (SUB)

TP number	TP_304_001	Reference	[1], clause 7.2.1	
			[2], clause 7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	4		
Test Purpose name	isub parameter in the To head	er is mapped into Called party	Subaddress	
Test Purpose	Ensure that on receipt of an initial INVITE request, an INVITE with encapsulated IAM is sent. The isub parameter present in the To header is mapped into the Called party Subaddress covered in an Access Transport parameter in the sent IAM. If the isubencoding parameter is present, the values 'nsap-ia5', 'nsap-bcd' or 'nsap' are relevant for mapping			
	Encoding of the Subaddress in the IAM: Type of Subaddress='NSAP' Subaddress digits derived from the uric of the isub parameter			
ISUP Parameter values	IAM: Access Transport			
	Called party subaddress			
	Type of Subaddress=NSAP			
		ts derived from the uric of the i	sub parameter	
SIP Parameter values	INVITE: To:			
	isub			
	uric Subaddr			
	isub-encodin	g: Not present		
		nsap-ia5		
		nsap-bcd		
		nsap		
Comments	CID VIVI	MOOF	OID I	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -		INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

TP number	TP_304_002	Reference	[1], clause 7.2.1
			[2], clause 7.4.5.2
TSS reference	PSTN-SS/SUB/	·	12 2
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/4	
Test Purpose name	isub parameter in the	To header is not mapped	
Test Purpose	Ensure that on receipt	of an initial INVITE request, a	an INVITE with encapsulated IAM is
			s not mapped into the Called party
	Subaddress if the valu	e of the <b>isub-encoding</b> parar	meter is other then 'nsap-ia5',
	'nsap-bcd' or 'nsap'		
ISUP Parameter values			
SIP Parameter values	INVITE: To:		
	isub		
	uric	Subaddress digits	
	isub-	encoding: <any token=""></any>	
Comments		-	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	. ,
		Apply post test ro	outine

TP number	TP_304_003	Reference	[1], clause 7.2.1
Ti mamber	11 _304_003	The reflection of the reflecti	[2], clause 7.4.5.2
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	1	
Test Purpose name	isub parameter in the P-Asserte		nto Calling party Subaddross
Test Purpose			
rest ruipose	Ensure that on receipt of an initial INVITE request, an INVITE with encapsulated IAM is sent. The isub parameter present in the P-Asserted-Identity header is mapped into the		
	Calling party Subaddress cover		
	isub-encoding parameter is pre		
	for mapping	sent, the values hsap-ias, hs	ap-bcd of risap are relevant
	To mapping		
	Encoding of the Subaddress:		
	Type of Subaddress='NSAP'		
	Subaddress digits derived from	the uric of the isub parameter	
ISUP Parameter values	IAM: Access Transport	tille alle et tile leab parameter	
loor rarameter values	Calling party subaddress		
	Type of Subaddress=NSAP		
	Subaddress digits derived from the uric of the isub parameter		
SIP Parameter values	INVITE: P-Asserted-Identity:		
	isub		
	uric Subaddre	ess digits	
	isub-encoding	g: Not present	
		nsap-ia5	
		nsap-bcd	
		nsap	
Comments			
Message flows	SIP NNISIP-I	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
	-	Apply post test routine	

TP number	TP 304 004	Reference	[1], clause 7.2.1	
			[2], clause 7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/4		
Test Purpose name	isub parameter in the P-Asser	ted-Identity header in the INVIT	E is not mapped	
Test Purpose		itial INVITE request, an INVITE		
		ent in the P-Asserted-Identity h		
	Calling party Subaddress if the	e value of the <b>isub-encoding</b> p	arameter is other then 'nsap-	
	ia5', 'nsap-bcd' or 'nsap'			
ISUP Parameter values				
SIP Parameter values	INVITE: P-Asserted-Identity	:		
	isub			
	uric Subaddress digits			
	isub-encoding: <any token=""></any>			
Comments				
Message flows	SIP NNISIP-I	MGCF	SIP-I	
	INVITE	<b>→</b>	INVITE (IAM)	
	100 Trying	-		
	Apply post test routine			

TP number	TP_304_005	Reference	[1], clause 7.2.1		
			[2], clause 7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	4			
Test Purpose name	Connected party Subaddress in		sub parameter in the		
	P-Asserted-Identity header in the				
Test Purpose	Ensure that on receipt of a 200				
	Connected party Subaddress p	arameter in an Access Transp	ort parameter, a 200 OK		
	(INVITE) is sent and the				
	P-Asserted-Identity header con				
	Connected Subaddress digits of	of the Connected party subadd	ress digits		
ISUP Parameter values	ANM: Access Transport				
	Connected party sub				
	Type of Subaddr				
	Subaddress digit	'S			
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric digits derived from the Connected party Subaddress digits				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	180 Ringing ←	<b>←</b>	180 Ringing		
	( ACM – free)				
	200 OK (INVITE) ← 200 OK (INVITE)				
			(ANM)		
	ACK →	<b>→</b>	ACK		
		Apply post test routine			

Reference	[1], clause 7.2.1		
	[2], clause 7.4.5.2		
6 6.3.2/4			
dress in the ANM is not map	pped		
Ensure that on receipt of a 200 OK (INVITE) ANM message containing a Connected party Subaddress parameter in an Access Transport parameter, a 200 OK (INVITE) is sent and the Connected party subaddress is not mapped if the Type of subaddress is not equal			
ANM: Access Transport  Connected party subaddress  Type of Subaddress other then NSAP			
MGCF  ←  ←  Apply post test to	SIP-I  INVITE (IAM)  180 Ringing (ACM – free)  200 OK (INVITE) (ANM)  ACK		
	Apply post test re		

TP number	TP_304_007	Reference	[1], clause 7.3.1	
			[2], clause 7.4.5.3	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	4		
Test Purpose name	Mapping of Called Party subaction INVITE	dress in the IAM into isub para	ameter in the To header in the	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Called party subaddress in the Access Transport parameter, an initial INVITE is sent. The Called party subaddress is mapped into an isub parameter present in the <b>To header</b> in the INVITE if the Type of number of the subaddress is set to 'NSAP', the isub-encoding parameter is set to 'nsap-ia5'.			
ISUP Parameter values	IAM: Access Transport Called party subaddress Type of Subaddress=NSAP Subaddress digits			
SIP Parameter values	INVITE: To:  isub  uric digits derived from the Called party Subaddress digits isub-encoding=nsap-ia5			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

TP number	TP 304 008		Reference		[1], clause 7.3.1
					[2], clause 7.4.5.3
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/4	ļ		
Test Purpose name	No mapping of Cal	led Party sub	paddress in the IAM		
Test Purpose	Ensure that on rec	eipt of an IN\	/ITE with encapsula	ated IAM co	ontaining a Called party
					ITE is sent. The Called party
					the To header of the INVITE if
	the Type of numbe	r of the suba	ddress is not equal	to 'NSAP'	
ISUP Parameter values	IAM: Access Trai	IAM: Access Transport			
	Called party subaddress				
	Type of Subaddress not NSAP				
	Subaddress digits				
SIP Parameter values		•			
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>		<b>→</b>	INVITE
	, ,			<b>←</b>	100 Trying
			Apply post test	routine	

TP number	TP_304_009	Reference	[1], clause 7.3.1		
			[2], clause 7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	<b>'</b> 4			
Test Purpose name	Mapping of Calling Party suba	ddress in the IAM into isub par	rameter in the P-Asserted-		
	Identity header in the INVITE				
Test Purpose	Ensure that on receipt of an IN				
	subaddress in the Access Tran				
	subaddress is mapped into an				
	in the INVITE if the Type of nu		al to 'NSAP', the isub-		
	encoding parameter is set to 'r	nsap-ia5'.			
ISUP Parameter values	IAM: Access Transport				
	Calling party subaddress				
	Type of Subaddress=NSAP				
	Subaddress digits				
SIP Parameter values	INVITE: P-Asserted-Identity:				
	isub				
	_	rived from the Calling party Su	ıbaddress digits		
	isub-encodir	ig=nsap-ia5			
Comments					
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) → INVITE				
	← 100 Trying				
	Apply post test routine				

TP number	TP 304 010		Reference		[1], clause 7.3.1
					[2], clause 7.4.5.3
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND P	ICS 6.3.2/4			
Test Purpose name	No mapping of Callin	ng Party sub	address in the IAM	1	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Calling party subaddress in the Access Transport parameter, an initial INVITE is sent. The Calling party subaddress is not mapped into an isub parameter present in the P-Asserted-Identity header in the INVITE if the Type of number of the subaddress is not equal to 'NSAP'				
ISUP Parameter values	IAM: Access Transport Calling party subaddress Type of Subaddress not NSAP Subaddress digits				
SIP Parameter values					
Comments					
Message flows	SIP-I INVITE (IAM)	<b>→</b>	MGCF	<b>→</b>	SIP NNI INVITE
			Apply post test r	outine	100 Trying

TP number	TP_304_011	Reference	[1], clause 7.3.1		
			[2], clause 7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/4			
Test Purpose name	Mapping of isub parameter in	the 200 OK into the Connecte	ed party subaddress in the ANM		
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK				
			nt and the received Subaddress		
			e Access Transport parameter		
			values 'nsap-ia5', 'nsap-bcd' or		
	'nsap' are relevant for mappin	g			
ISUP Parameter values	ANM: Access Transport				
	Connected party s				
	Type of Subado				
	Subaddress digits derived from the uric of the isub parameter				
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric Subaddress digits				
	isub-encoding: Not present				
	nsap-ia5				
	nsap-bcd				
Comments		nsap			
Message flows	SIP-I	MGCF	SIP NNI		
Indeedige none	INVITE (IAM)	oo.	<del></del>		
	180 Ringing	<u> </u>			
	(ACM - free)	_	roo ranging		
	200 OK (INVITE) ← 200 OK (INVITE)				
	(ANM)	-	200 311 (		
	ACK →	<b>→</b>	ACK		
		Apply post test routine			

TP number	TP_304_012	Reference	[1], clause 7.3.1	
			[2], clause 7.4.5.3	
TSS reference	PSTN-SS/SUB/	•		
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/4		
Test Purpose name	Mapping of isub paran	neter in the 200 OK into the Co	onnected party subaddress in the ANM	
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK (INVITE), an ANM is sent and the received Subaddress is not mapped in the Connected party subaddress present in the Access Transport parameter in the ANM If the isub-encoding parameter is present and the value is not equal to 'nsap-ia5', 'nsap-bcd' or 'nsap'			
ISUP Parameter values				
SIP Parameter values	200 OK: P-Asserted isub isub	-Identity: -encoding: Not nsap-ia5, nsap	o-bcd, nsap	
Comments		, , , , , , , , , , , , , , , , , , ,	, 1	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	180 Ringing (ACM)	<b>←</b>	← 180 Ringing	
	200 OK (INVITE) (ANM)	<b>←</b>	← 200 OK (INVITE)	
	ACK	<b>→</b>	→ ACK	
	Apply post test routine			

# 6.2.5 Call Forwarding Busy (CFB)/ Call Forwarding No Reply (CFNR) / Call Forwarding Unconditional (CFU)

TP number	TP_305_001	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.2	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to- Reason	•	· ·	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The called party status is set to 'no indication'. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number:  • If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string and sent in the Address signal of the Redirection number  • If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged and sent in the Address signal of the Redirection number  The Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.2.5-1			
ISUP Parameter values	ACM: Called party status=no indication Generic Notification call is diverting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry Call Diversion Information Redirecting reason= Redirecting_Reason			
SIP Parameter values	181: History-Info: <sip:any prop<="" th=""><th>per URI?Reason=SIP;cause=0 per URI&gt;; index=1.1</th><th>CAUSE_value &gt;; index=1,</th></sip:any>	per URI?Reason=SIP;cause=0 per URI>; index=1.1	CAUSE_value >; index=1,	
Comments	Í			
Message flows	SIP-I INVITE (IAM)  181 Call Is Being Forwarded (ACM)   SIP-I  (ACM)		SIP NNI /ITE Call Is Being Forwarded	
	Appriy post test routine			

Table 6.2.5-1: Mapping of Reason header into Redirecting reason

CAUSE	CAUSE_value	Redirecting_Reason
VA_01	302	Deflection immediate response
VA_02	486	User busy
VA_03	408	No reply
VA 04	503	Mobile subscriber not reachable

TP number	TP_305_002	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5		
Test Purpose name	Mapping of 181 Privacy heade	r into early ACM Notification s	ubscription options	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a 181 Call Is Being Forwarded with encapsulated ACM is sent. The called party status is set to 'no indication'.  The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.2.5-2			
ISUP Parameter values	ACM: Called party status=no indication Call Diversion Information Notification subscription options=SUBS_options			
SIP Parameter values		per URI?Reason=SIP;cause=a per URI>; index=1.1	any value >; index=1,	
Comments				
Message flows	SIP-I INVITE (IAM)  181 Call Is Being Forwarded (ACM)  →		SIP NNI ITE Call Is Being Forwarded	
		Apply post test routine		

Table 6.2.5-2: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	History	presentation not allowed
VA_02	Session	presentation not allowed
VA_03	Header	presentation not allowed
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_305_003	Reference	[1], clause 7.3.1			
			[2], clauses 7.4.6.2.2,			
			table, 7.4.6.2.2.4			
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5				
Test Purpose name	Mapping of 181 escaped Priva	cy header into early ACM	Notification subscription options			
Test Purpose			containing an escaped Privacy			
			eing Forwarded with encapsulated			
	ACM is sent. The called party s					
			on Information parameter is set			
			y entry as indicated in table 6.2.5-3			
ISUP Parameter values		ACM: Called party status=no indication				
	Call Diversion Information					
		tion options= <b>SUBS_opti</b>	ons			
SIP Parameter values	181:					
	History-Info:					
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>					
		<sip:any proper="" uri?privacy="&lt;i">Priv-value&gt;; index=1.1</sip:any>				
	<sip:any proper="" uri="">; i</sip:any>	ndex=1.2				
	181 (ACM):					
	No History-Info					
Comments		Privacy and Reason header can appear in reverse order				
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	<b>→</b>	INVITE			
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded			
	Forwarded (ACM)					
		Apply post test routine				

Table 6.2.5-3: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	History	presentation allowed without redirection number
VA_02	Session	presentation allowed without redirection number
VA_03	Header	presentation allowed without redirection number
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_305_004	Reference	[1], clause 7.3.1
			[2], clauses 7.4.6.2.2,
			table, 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Privacy header into early ACM Redirection number restriction		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a 181		
	Call Is Being Forwarded with e	ncapsulated ACM is sent. The	called party status is set to
	'no indication'.		
	The Redirection number restric	tion is set according the Privac	by header in the message
	body as indicated in table 6.2.5-4		
ISUP Parameter values	ACM: Called party status=no indication		
	Redirection number rest	triction= PRES_restr	
SIP Parameter values	181:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
	181 (ACM):		
	No History-Info		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→ INVI	TE
	181 Call Is Being ← 181 Call Is Being Forwarded		
	Forwarded (ACM)		
	Apply post test routine		

TP number	TP_305_005	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped F	Mapping of 181 escaped Privacy header into early ACM Redirection number restriction		
Test Purpose	Ensure that on receipt of 1	Ensure that on receipt of 181 (Call Is Being Forwarded), a 181 Call Is Being Forwarded		
	with encapsulated ACM is	sent. The called party status	is set to 'no indication'.	
	The Redirection number re	estriction is set according the	escaped Privacy header in the last	
	History entry as indicated	in table 6.2.5-4		
ISUP Parameter values	ACM: Called party status=no indication			
	Redirection numbe	r restriction= PRES_restr		
SIP Parameter values	181:			
	History-Info:			
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any proper="" uri?privacy="&lt;i">Priv-value&gt;; index=1.1</sip:any>			
	181 (ACM):			
	No History-Info			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	INVITE	
	181 Call Is Being ← 181 Call Is Being Forwarded			
	Forwarded (ACM)			
	Apply post test routine			

Table 6.2.5-4: Mapping of Privacy value into Redirection number restriction

CAUSE	Priv-value	PRES_restr
VA_01	History	Presentation restricted
VA_02	Session	Presentation restricted
VA_03	Header	Presentation restricted
VA_04	None or absent	Presentation allowed or absent

TP number	TP_305_006	Reference	[1], clause 7.3.1	
Ti Tidiliber	11 _000_000	rtorororo	[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.2,	
			table, 7.4.6.2.2.7	
TSS reference	PSTN-SS/CDIV/		table, 1.4.0.2.2.1	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/E		
Test Purpose name	I .			
Test Purpose name	Mapping of 181 hi-targeted-to-uri into CPG Redirection number and Redirecting Reason			
rest Furpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 Call Is Being Forwarded with encapsulated CPG is sent. The Event indicator is set to 'Progress'. The History-Info entry			
	following the last History-Info e	entry containing a Reason	neader is mapped into the	
			anta di Nintino of a dilanca in diantan	
			cated: Nature of address indicator	
		cant) number, the counti	ry code is removed from the digit	
	string		U OUT: I I I N I I	
	If the country code is not a	equal the country code wr	nere the SUT is located: Nature of	
			he digit string is used unchanged.	
	The Redirecting reason in the Call Diversion Information parameter is set as indicated in			
IOUD D	table 6.2.5-5			
ISUP Parameter values	CPG: Event=Progress OR			
	Event=Redirecting_Reason			
	Generic Notification			
	call is diverting			
	Redirection number			
	Derived from the last History-Info entry			
	Call Diversion Information			
SIP Parameter values	Redirecting reason= Redirecting_Reason			
SIP Parameter values	181:	nor LIDI2Dagaan CIDiag	una CALICE value, Linday 1	
			use= <b>CAUSE_value</b> >; index=1,	
		<sip:any proper="" uri="">; index=1.1</sip:any>		
	181 (ACM):			
Comments	No History-Info			
	SIP-I	MGCF	SIP NNI	
Message flows		WIGCF →	INVITE	
	INVITE (IAM)	=		
	180 Ringing (ACM) ←	<del>(</del>	180 Ringing	
	181 Call Is Being ←	+	181 Call Is Being Forwarded	
	Forwarded (CPG)	Annih maat taat (!		
	Apply post test routine			

Table 6.2.5-5: Mapping of Reason header into Redirecting reason

CAUSE	CAUSE_value	Redirecting_Reason
VA_01	302	Deflection immediate response
VA_02	486	User busy
VA_03	408	No reply
VA_04	503	Mobile subscriber not reachable

TP number	TP_305_007	Reference	[1], clause 7.3.1
			[2], clauses 7.4.6.2.2,
			table, 7.4.6.2.2.2,
TSS reference	PSTN-SS/CDIV/		table, 7.4.6.2.2.7
Selection criteria	PICS 6.3.5/1 AND PICS 6.3.1/	1 AND PICS 6 3 2/5	
Test Purpose name	Mapping of 181 hi-targeted-to-		er into CPG Event indicator
Test Purpose			
l cot i aiposo	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 Call Is Being Forwarded with encapsulated CPG is sent. The Event indicator is set to 'Redirecting Reason' as		
	indicated in table 6.2.5-6. The		
	containing a Reason header is		
			cated: Nature of address indicator
	is set to 'national (signific	cant) number', the country	y code is removed from the digit
	string		
			ere the SUT is located: Nature of
			ne digit string is used unchanged
ISUP Parameter values	CPG: Event=Redirecting_Reason		
	Generic Notification		
	call is diverting		
	Redirection number		
SIP Parameter values	Derived from the last History-Info entry		
SIP Parameter values	181:	oor LIDI2Doogon_SID:oou	oo_CAUSE value > : indov_1
		per URI>; index=1.1	se= <b>CAUSE_value</b> >; index=1,
	181 (ACM):	,	
	No History-Info		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	180 Ringing ←	+	180 Ringing
	(ACM – free)		
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded
	Forwarded (CPG)		
	Apply post test routine		

Table 6.2.5-6: Mapping of Reason header into Event indicator

	CAUSE_value	Redirecting_Reason
VA_01	486	User busy
VA_02	408	No reply

TP number	TP_305_008	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	1	,	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	75		
Test Purpose name	Mapping of 181 Privacy heade	Mapping of 181 Privacy header into CPG Notification subscription options		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a 181 Call Is Being Forwarded with encapsulated CPG is sent. The Event indicator is set to 'Progress'.  The Notification subscription options in the Call Diversion Information parameter is set			
10115		according the Privacy header in the message body as indicated in table 6.2.5-7		
ISUP Parameter values	CPG: Event=Progress			
		Call Diversion Information		
OID D	Notification subscription options=SUBS_options			
SIP Parameter values	181:			
	Privacy: <b>Priv-value</b>	man LIDIODagaan CIDiaaii	an and diades 4	
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
		per URI>; index=1.1		
	181 (ACM): No History-Info			
Comments	NO HISTORY-IIIIO			
Message flows	SIP –I	MGCF	SIP NNI	
Wessage nows	- · · ·	WIGGF →	INVITE	
		<del></del>		
	3 3 ( - )		180 Ringing	
	181 Call Is Being ← Forwarded (CPG)	<b>←</b>	181 Call Is Being Forwarded	
		Apply post test routing	ne	

Table 6.2.5-7: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	History	presentation not allowed
VA_02	Session	presentation not allowed
VA_03	Header	presentation not allowed
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_305_009	Reference	[1], clause 7.3.1	
Hamber	11 _303_009	Kererenee	[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/		table, 1.4.0.2.2.4	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/5		
Test Purpose name		Mapping of 181 escaped Privacy header into CPG Notification subscription options		
Test Purpose			) containing an escaped Privacy	
			Being Forwarded with encapsulated	
	CPG is sent. The Event indic			
			on Information parameter is set	
IOUD D		cy neader in the last Histor	ry entry as indicated in table 6.2.5-8	
ISUP Parameter values	CPG: Event=Progress			
		Call Diversion Information		
	Notification subscription options=SUBS_options			
SIP Parameter values	181:			
	History-Info:			
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>			
	, ,	181 (ACM):		
	No History-Info			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	180 Ringing (ACM) ←	<b>+</b>	180 Ringing	
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (CPG)			
	Apply post test routine			

Table 6.2.5-8: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	History	presentation allowed without redirection number
VA_02	Session	presentation allowed without redirection number
VA_03	Header	presentation allowed without redirection number
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_305_010	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	•	·	
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.2/5		
Test Purpose name	Mapping of 181 Privacy he	ader into CPG Redirection i	number restriction	
Test Purpose		Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header in the message body, a 181 Call Is Being Forwarded with encapsulated CPG is sent. The Event indicator is set to 'Progress'		
		estriction is set according the	e Privacy header in the message	
ISUP Parameter values	CPG: Event=Progress Redirection number	r restriction= PRES_restr		
SIP Parameter values	181:	1120_104		
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri="">; index=1.1</sip:any></pre>			
	181 (ACM):	1 71 1 7		
	No History-Info			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	INVITE	
	180 Ringing ←	·	180 Ringing	
	(ACM – free) 181 Call Is Being Forwarded (CPG)  Forwarded (CPG)	·	181 Call Is Being Forwarded	
	Apply post test routine			

	I==		•	In
TP number	TP_305_011	Re	eference	[1], clause 7.3.1
				[2], clauses 7.4.6.2.2,
				table, 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escap	ed Privacy	neader into CPG Red	irection number restriction
Test Purpose	Ensure that on receipt	t of 181 (Cal	I Is Being Forwarded)	, a 181 Call Is Being Forwarded
	with encapsulated CP	G is sent. TI	ne Event indicator is s	set to 'Progress'.
	The Redirection numb	er restriction	n is set according the	escaped Privacy header in the last
	History entry as indica	ated in table	6.2.5-9	
ISUP Parameter values	CPG: Event=Progress			
	Redirection number restriction= PRES_restr			
SIP Parameter values	181:			
	History-Info:			
	<sip:any prope<="" th=""><th colspan="3"><sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any></th></sip:any>	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<pre><sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></pre>			
	181 (ACM):			
	No History-Info			
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing
	(ACM - free)			0 0
	181 Call Is Being	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded
	Forwarded (CPG)			5 - 2 - 2 - 2 - 3 - 2 - 2 - 2 - 2 - 2 - 2
	Apply post test routine			ne

Table 6.2.5-9: Mapping of Privacy value into Redirection number restriction

CAUSE	Priv-value	PRES_restr
VA_01	History	Presentation restricted
VA_02	Session	Presentation restricted
VA_03	Header	Presentation restricted
VA_04	None or absent	Presentation allowed or absent

TP number	TP_305_012	Reference	[1], clause 7.3.1	
	1		[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.2,	
			table, 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/5		
Test Purpose name	Mapping of 180 hi-targeted-to	o-uri into ACM Redirection nui	mber and Redirecting Reason	
Test Purpose	<ul> <li>Ensure that on receipt of 180 (Ringing) a 180 (Ringing) with encapsulated ACM is sent. The called party status is set to 'subscriber free'. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number:</li> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string</li> <li>If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged. The Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.2.5-10</li> </ul>			
ISUP Parameter values	ACM: Called party status=subscriber free			
	Generic Notification call is diverting			
	Redirection number			
	Derived from the last History-Info entry			
	Call Diversion Information			
		Redirecting reason= Redirecting_Reason		
SIP Parameter values	180:	<u> </u>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
	180 (ACM):	oper Gras, maox-111		
	No History-Info			
Comments				
Message flows	SIP –I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b> IN	IVITE	
	180 Ringing (ACM) ← 180 Ringing			
		Apply post test routine		

Table 6.2.5-10: Mapping of Reason header into Redirecting reason

CAUSE	Redirecting_Reason	CAUSE_value
VA_01	Deflection immediate response	302
VA_02	User busy	486
VA_03	No reply	408
VA_04	Mobile subscriber not reachable	503

TP number	TP_305_013	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.2,	
			table, 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Privacy header	r into ACM Notification subso	cription options	
Test Purpose	Ensure that on receipt of 180 (l		y header in the message body, party status is set to 'subscriber	
	free'.	ted Acivi is sent. The called	party status is set to subscriber	
	The Notification subscription or	otions in the Call Diversion Ir	nformation parameter is set	
	according the Privacy header in the message body as indicated in table 6.2.5-11			
ISUP Parameter values	ACM: Called party status=subscriber free			
	Call Diversion Information			
	Notification subscription options=SUBS_options			
SIP Parameter values	180:			
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<sip:any index="1.1&lt;/th" proper="" uri;=""></sip:any>			
	180 (ACM):			
	No History-Info			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b> IN	VITE	
	180 Ringing (ACM) ←	<b>←</b> 18	30 Ringing	
		Apply post test routine		

Table 6.2.5-11: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	History	presentation not allowed
VA_02	Session	presentation not allowed
VA_03	Header	presentation not allowed
VA_04	None or absent	Presentation allowed with redirection number

	Deference	1[4] -1 7 0 4	
TP_305_014	Reference	[1], clause 7.3.1	
		[2], clauses 7.4.6.2.2,	
		table, 7.4.6.2.2.4	
PSTN-SS/CDIV/			
PICS 6.3.1/1 AND PICS 6.3.2/5			
Mapping of 180 escaped Privacy header into ACM Notification subscription options			
Ensure that on receipt of	of 180 (Ringing) containing	an escaped Privacy header field in the	
last hi-targeted-to-uri, a	a 180 (Ringing) with encaps	ulated ACM is sent. The called party	
The Notification subscri	iption options in the Call Div	version Information parameter is set	
according the escaped	Privacy header in the last H	History entry as indicated in	
table 6.2.5-12			
ACM: Called party status=subscriber free			
Call Diversion In	Call Diversion Information		
Notification subscription options=SUBS_options			
180:		•	
History-Info:			
<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	,		
, ,			
į			
SIP NNI	MGCF	SIP NNI	
INVITE (IAM)	<b>→</b>	→ INVITE	
, ,	<b>←</b>	← 180 Ringing	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Apply post test	0 0	
	PSTN-SS/CDIV/ PICS 6.3.1/1 AND PICS Mapping of 180 escaped Ensure that on receipt last hi-targeted-to-uri, a status is set to 'subscril The Notification subscr according the escaped table 6.2.5-12  ACM: Called party sta Call Diversion In Notification set 180: History-Info: <sip:any (acm):="" 181="" <sip:any="" history-info<="" no="" proper="" th=""><th>PSTN-SS/CDIV/  PICS 6.3.1/1 AND PICS 6.3.2/5  Mapping of 180 escaped Privacy header into ACM Ensure that on receipt of 180 (Ringing) containing last hi-targeted-to-uri, a 180 (Ringing) with encaps status is set to 'subscriber free'.  The Notification subscription options in the Call Div according the escaped Privacy header in the last H table 6.2.5-12  ACM: Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS  180: History-Info: <ii><ip><ip><ip><ip><ip><ip><ip><ip><ip></ip></ip></ip></ip></ip></ip></ip></ip></ip></ii></th></sip:any>	PSTN-SS/CDIV/  PICS 6.3.1/1 AND PICS 6.3.2/5  Mapping of 180 escaped Privacy header into ACM Ensure that on receipt of 180 (Ringing) containing last hi-targeted-to-uri, a 180 (Ringing) with encaps status is set to 'subscriber free'.  The Notification subscription options in the Call Div according the escaped Privacy header in the last H table 6.2.5-12  ACM: Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS  180: History-Info: <ii><ip><ip><ip><ip><ip><ip><ip><ip><ip></ip></ip></ip></ip></ip></ip></ip></ip></ip></ii>	

Table 6.2.5-12: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	History	presentation allowed without redirection number
VA_02	Session	presentation allowed without redirection number
VA_03	Header	presentation allowed without redirection number
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_305_015	Reference	[1], clause 7.3.1
			[2], clauses 7.4.6.2.2,
			table, 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 180 Privacy header into ACM Redirection number restriction		
Test Purpose	Ensure that on receipt of 180 (F	Ringing) containing a Privacy h	eader in the message body,
	a 180 Ringing with encapsulate	ed ACM is sent. The called par	ty status is set to 'subscriber
	free'.		
	The Redirection number restric	tion is set according the Privac	y header in the message
	body as indicated in table 6.2.5	-13	·
ISUP Parameter values	ACM: Called party status=sub	scriber free	
	Redirection number rest	triction= PRES_restr	
SIP Parameter values	181:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
	181 (ACM):		
	No History-Info		
Comments			
Message flows	SIP – I	MGCF	SIP NNI
	INVITE (IAM) →	→ INVI	TE
	180 Ringing ←	<b>←</b> 180	Ringing
	(ACM - free)		
		Apply post test routine	

TP number	TP 305 016	Reference	[1], clause 7.3.1
	1555_515		[2], clauses 7.4.6.2.2,
			table, 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/	•	,
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of 180 escaped Priva	cy header into ACM Redirec	tion number restriction
Test Purpose	Ensure that on receipt of 180 (	Ringing) containing an escap	ed Privacy header in the last hi-
	targeted-to-uri, a 180 Ringing v	with encapsulated ACM is se	nt. The called party status is set
	to 'subscriber free'.		
	The Redirection number restriction is set according the escaped Privacy header in the last		
	History entry as indicated in table 6.2.5-13		
ISUP Parameter values	ACM: Called party status=subscriber free		
	Redirection number restriction= PRES_restr		
SIP Parameter values	181:		
	History-Info:		
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>		
	181 (ACM):		
	No History-Info		
Comments			
Message flows	SIP – I	MGCF	SIP NNI
	INVITE (IAM) → INVITE		
	180 Ringing (ACM) ←	<b>←</b> 18	80 Ringing
	Apply post test routine		

Table 6.2.5-13: Mapping of Privacy value into Redirection number restriction

CAUSE	Priv-value	PRES_restr
VA_01	history	Presentation restricted
VA_02	session	Presentation restricted
VA_03	header	Presentation restricted
VA_04	None or absent	Presentation allowed or absent

TP number	TP_305_017	Reference	[1], clause 7.3.1 [2], clauses 7.4.6.2.2, table, 7.4.6.2.2.2,		
			table, 7.4.6.2.2.4,		
			table, 7.4.6.2.2.9		
TSS reference	PSTN-SS/CDIV/	•	,		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into CPG Redirection n	umber and Redirecting Reason		
Test Purpose	Ensure that on receipt of 180 (Ringing) a 180 Ringing with encapsulated CPG is sent. The Event indicator is set to 'ALERTING'. The History-Info entry concerning the diverted-to number is mapped into the Redirection number:  • If CC is equal the country code where the SUT is located: Nature of address indicator				
	is set to 'national (signific string	cant) number', the country	code is removed from the digit		
			ere the SUT is located: Nature of e digit string is used unchanged.		
ISUP Parameter values	CPG: Event=ALERTING				
	Generic Notification				
	call is diverting				
	Redirection number  Derived from the last History-Info entry				
	Call Diversion Information				
	Redirecting reason= any value				
SIP Parameter values	181:				
Sir raiameter values	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
		per URI>; index=1.1	se-arry value>, muex-1,		
	181 (ACM):	por order, maox-1.1			
	No History-Info				
Comments					
Message flows	SIP – I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded		
	Forwarded (ACM)		ŭ		
	180 Ringing (CPG) ←	<b>←</b>	180 Ringing		
		Apply post test routing	e		

Table 6.2.5-14: Void

TP number	TP_305_018	Reference	[1], clause 7.3.1 [2], clauses 7.4.6.2.2,		
TSS reference	PSTN-SS/CDIV/		table, 7.4.6.2.2.4		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	0/5			
			.h.a.vintian antiqua		
Test Purpose name	Mapping of 180 Privacy head				
Test Purpose	encapsulated CPG is sent. The Notification subscription	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a 180 Ringing with encapsulated CPG is sent. The Event indicator is set to 'ALERTING'.  The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.2.5-15			
ISUP Parameter values	CPG: Event=ALERTING Call Diversion Information Notification subscription options=SUBS_options				
SIP Parameter values	180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
Comments					
Message flows	ISUP	MGCF	SIP NNISIP-I		
	INVITE (IAM) →	<b>→</b>	INVITE		
	181 Call Is Being ← Forwarded (ACM)	+	181 Call Is Being Forwarded		
	180 Ringing (CPG) ←	<b>←</b>	180 Ringing		
	Apply post test routine				

Table 6.2.5-15: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	history	presentation not allowed
VA_02	session	presentation not allowed
VA_03	header	presentation not allowed
VA_04	None or absent	Presentation allowed with redirection number

	TD 005 040	- In (		Tr.1		
TP number	TP_305_019	Refere	ence	[1], clause 7.3.1		
				[2], clauses 7.4.6.2.2,		
				table, 7.4.6.2.2.4		
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5				
Test Purpose name	Mapping of 180 escap	ed Privacy head	ler into CPG Notif	ication subscription options		
Test Purpose	Ensure that on receipt	of 180 (Ringing	) containing an es	scaped Privacy header field in the		
_	last hi-targeted-to-uri,	a 180 Ringing w	ith encapsulated	CPG is sent. The Event indicator is		
	set to 'ALERTING'.		·			
	The Notification subsc	ription options in	the Call Diversion	on Information parameter is set		
	according the escaped					
	table 6.2.5-16	,		, ,		
ISUP Parameter values	CPG: Event=ALERTI	NG				
	Call Diversion I	Call Diversion Information				
	Notification	subscription opt	ions=SUBS_opti	ons		
SIP Parameter values	180:					
	History-Info:					
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any></pre>					
			Priv-value>; index			
Comments		-	•			
Message flows	SIP-I	N	IGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
	181 Call Is Being	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded		
	Forwarded (ACM)			<b>o</b>		
	180 Ringing (CPG)	<b>←</b>	<b>←</b>	180 Ringing		
	Apply post test routine					
L	pp.) post toot routino					

Table 6.2.5-16: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	history	presentation allowed without redirection number
VA_02	session	presentation allowed without redirection number
VA_03	header	presentation allowed without redirection number
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_305_020	Referei	nce	[1], clause 7.3.1	
				[2], clauses 7.4.6.2.2,	
				table, 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	•			
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/5			
Test Purpose name	Mapping of 180 Priva	cy header into CP	G Redirection n	umber restriction	
Test Purpose	Ensure that on receipt	t of 180 (Ringing)	containing a Pri	vacy header, a 180 Ringing with	
	encapsulated CPG is	sent. The Event in	ndicator is set to	'ALERTING'.	
	The Redirection numb	er restriction is se	et according the	Privacy header in the message	
	body as indicated in ta	able 6.2.5-17			
ISUP Parameter values	CPG: Event=ALERT	ING			
	Redirection nu	mber restriction=	PRES_restr		
SIP Parameter values	180:				
	Privacy: <b>Priv-valu</b>	e			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
	<sip< th=""><th>:any proper URI&gt;</th><th>; index=1.1</th><th></th></sip<>	:any proper URI>	; index=1.1		
Comments					
Message flows	SIP-I	M	GCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
	181 Call Is Being	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (ACM)			-	
	180 Ringing (CPG)	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

TP number	TP 305 021	Ref	erence	[1], clause 7.3.1	
	1			[2], clauses 7.4.6.2.2,	
				table, 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	I		table, T. Helzizie	
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5			
Test Purpose name	Mapping of 180 escap	ed Privacy h	eader into CPG Red	irection number restriction	
Test Purpose	Ensure that on receipt	of 180 (Ring	ing), a 180 Ringing v	with encapsulated CPG is sent. The	
_	Event indicator is set to	o 'ALERTING	6'.		
	The Redirection numb	er restriction	is set according the	escaped Privacy header in the last	
	History entry as indica	ted in table 6	.2.5-17		
ISUP Parameter values	CPG: Event=ALERTI	NG			
	Redirection nur	mber restricti	on= PRES_restr		
SIP Parameter values	180:				
	History-Info:	History-Info:			
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>				
	180 (CPG):	180 (CPG):			
	No History-Info				
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	→	<b>→</b>	INVITE	
	181 Call Is Being	<b>←</b>	+	181 Call Is Being Forwarded	
	Forwarded (ACM)			2	
	180 Ringing (CPG)	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

Table 6.2.5-17: Mapping of Privacy value into Redirection number restriction

CAUSE	Priv-value	PRES_restr
VA_01	History	Presentation restricted
VA_02	Session	Presentation restricted
VA_03	Header	Presentation restricted
VA_04	None or absent	Presentation allowed or absent

TP number	TP_305_022	Reference	[1], clause 7.3.1 [2], clauses 7.4.6.2.2, table, 7.4.6.2.2.2, table, 7.4.6.2.2.10		
TSS reference	PSTN-SS/CDIV/		1000, 7. 1.0.2.2.10		
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.2/5			
Test Purpose name	I .	d-to-uri into ANM Redirection	number		
Test Purpose	Ensure that on receipt of 2 sent. The History-Info entry +'CC+NDC+SN' containing	Ensure that on receipt of 200 OK (INVITE) a 200 OK (INVITE) with encapsulated ANM is sent. The History-Info entry following the last History-Info entry in the format +'CC+NDC+SN' containing a Reason header is mapped into the Redirection number:			
	Nature of address indi	igit string	nificant) number', the country code		
		the country code where the cator is set to 'international	SUT is located: number' the digit string is used		
ISUP Parameter values	ANM: Redirection number	٢			
	Derived from the	Derived from the last History-Info entry			
SIP Parameter values	200:				
		History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
	200 (ANM): No History-Info				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	INVITE		
	180 Ringing (ACM − free)	<b>+</b>	180 Ringing		
	200 OK INVÍTE (ANM) €	- <b>←</b>	200 OK INVITE		
	ACK -	<b>→</b>	ACK		
		Apply post test routine			

TP number	TP_305_023	Reference	[1], clause 7.3.1		
			[2], clauses 7.4.6.2.2,		
			table, 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/5			
Test Purpose name	Mapping of 200 Privacy head	ler into ANM Redirection nu	mber restriction		
Test Purpose	Ensure that on receipt of 200	OK (INVITE) containing a I	Privacy header, a 200 OK (INVITE)		
	with encapsulated ANM is se	nt.			
	The Redirection number rest	riction is set according the F	Privacy header in the message		
	body as indicated in table 6.2	2.5-18			
ISUP Parameter values	ANM: Redirection number re	estriction= PRES_restr			
SIP Parameter values	200:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
	200 (ANM):				
	No History-Info				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	180 Ringing ←	<b>←</b>	180 Ringing		
	(ACM – free)		0 0		
	ANM	<b>←</b>	200 OK INVITE		
	ACK →	<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_305_024	Reference	[1], clause 7.3.1		
			[2], clauses 7.4.6.2.2,		
			table, 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/		· · · · · · · · · · · · · · · · · · ·		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	3.2/5			
Test Purpose name	Mapping of 200 escaped P	rivacy header into ANM Red	irection number restriction		
Test Purpose	Ensure that on receipt of 20	00 OK (INVITE), a 200 OK (I	NVITE) with encapsulated ANM is		
	sent.				
	The Redirection number res	striction is set according the	escaped Privacy header in the last		
	History entry as indicated in	table 6.2.5-18			
ISUP Parameter values	ANM: Redirection number	restriction= PRES_restr			
SIP Parameter values	200:				
	History-Info:				
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<pre><sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></pre>				
	200 (ANM):				
	No History-Info				
Comments					
Message flows	SIP – I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing		
	200 OK INVITE	<b>←</b>	200 OK INVITE		
	(ANM)				
	ÀCK →	<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_305_025	Reference	[1], clause 7.3.1 [2], clauses 7.4.6.2.2, table, 7.4.6.2.2.2,		
			table, 7.4.6.2.2.10		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of 200 hi-targeted-to-	uri into CON Redirection r	number		
Test Purpose	Ensure that on receipt of 200 0 sent. The History-Info entry fol +'CC+NDC+SN' containing a R	lowing the last History-Info	VITE) with encapsulated CON is entry in the format into the Redirection number:		
	<ul> <li>If 'CC' is equal the country code where the SUT is located:         Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string     </li> <li>If 'CC' is not equal the country code where the SUT is located:         Nature of address indicator is set to 'international number' the digit string is used     </li> </ul>				
	unchanged				
ISUP Parameter values	CON: Redirection number  Derived from the last History-Info entry				
SIP Parameter values	200: History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1, <sip:any proper="" uri="">; index=1.1  200 (ANM): No History-Info</sip:any></sip:any>				
Comments					
Message flows	SIP-I INVITE (IAM) 200 OK INVITE (ANM) ACK  →	MGCF → ←	SIP NNI INVITE 200 OK INVITE ACK		
	Apply post test routine				

TP number	TP_305_026	Reference	[1], clause 7.3.1		
	1		[2], clauses 7.4.6.2.2,		
			table, 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 200 Privacy header into CON Redirection number restriction				
Test Purpose	Ensure that on receipt of 200 OK (INVITE) containing a Privacy header, a 200 OK (INVITE				
	with encapsulated CON is sent.				
	The Redirection number restriction is set according the Privacy header in the message				
	body as indicated in table 6.2.5-18				
ISUP Parameter values	CON: Redirection number restriction= PRES_restr				
SIP Parameter values	200:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
	<sip:any proper="" uri="">; index=1.2</sip:any>				
	200 (ANM):				
	No History-Info				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	200 OK INVITE (ANM) ←	<b>←</b>	200 OK INVITE		
	ACK →	<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_305_027	Reference	[1], clause 7.3.1		
			[2], clauses 7.4.6.2.2,		
			table, 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 200 escaped Privacy header into CON Redirection number restriction				
Test Purpose	Ensure that on receipt of 200 OK (INVITE), a 200 OK (INVITE) with encapsulated CON is sent.				
	The Redirection number restriction is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-18				
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr				
SIP Parameter values	200:				
	History-Info:				
	<sip:any proper="" uri&reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>				
	<sip:any proper="" uri="">; index=1.2</sip:any>				
	200 (ANM):				
	No History-Info				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b> Ⅱ	NVITE		
	200 OK INVITE ←	← 2	00 OK INVITE		
	(ANM)				
	ÀCK ´ →	<b>→</b> /	ACK		
	Apply post test routine				

Table 6.2.5-18: Mapping of Privacy value into Redirection number restriction

CAUSE	Priv-value	PRES_restr
VA_01	History	Presentation restricted
VA_02	Session	Presentation restricted
VA_03	Header	Presentation restricted
VA_04	None or absent	Presentation allowed or absent

TP number	TP_305_028	Reference				
		indicion di la	[1], clause 7.3.1 [2], clauses 7.4.6.2.3,			
			table, 7.4.6.2.3.1			
TSS reference	PSTN-SS/CDIV/		[table, 7.4.0.2.3.1			
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name						
•	Mapping of Redirecting number Address Signals					
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting					
	number parameter and a Redirection Information parameter, an INVITE request is sent and					
	a History-Info header is present. The value of the second last hi-targeted-to-uri Value of					
	Redirecting number is mapped from the Redirecting number Address Signals as					
IOUD Developed		indicated in table 6.2.5-19				
ISUP Parameter values	IAM: Redirecting number					
	Nature of Address: <b>NoA_value</b>					
		Address Signals <any appropriate="" value=""> Redirection Information Original called number</any>				
SIP Parameter values		INVITE:				
	-	History-Info:				
		<pre><sip:any proper="" uri?reason="SIP;cause=404">; index=1, <sip:value number?reason="SIP;cause=any" of="" redirecting="">; index=1.1,</sip:value></sip:any></pre>				
	<sip:any proper="" uri="">; index=1.1.1 INVITE (IAM):</sip:any>					
	No History-Info					
Comments						
Message flows	SIP –I	MGCF	SIP NNI			
	INVITE (IAM)	<b>→</b>	→ INVITE			
	routine					

Table 6.2.5-19: Mapping of Redirecting number into second last Hist-entry

	NoA_value	Value of Redirecting number second last hi-targeted-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Redirecting number
VA_02	international number	Add '+' to the Address Signal digits of the Redirecting number

TP number	TP_305_029	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.3,	
			table, 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/5		
Test Purpose name	Mapping of Redirecting numl	ber Address presentation r	estricted indicator	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number parameter, an INVITE request is sent and a History-Info header is present. A Privacy header is escaped in the second last hi-targeted-to-uri and the <b>PRIV_value</b> is mapped from the Address presentation restricted indicator of the Redirecting number as indicated in table 6.2.5-20			
ISUP Parameter values	IAM: Redirecting number Address presenta Redirection Informatio Original called numbe	***	PRI_value	
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,     <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1 INVITE (IAM):     No History-Info</sip:any></sip:any></sip:any>			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM) →	→	INVITE	
	Apply post test routine			

Table 6.2.5-20: Mapping of Redirecting number APRI into Privacy header in the second last Hist-entry

	APRI_value	PRIV_value second last hi-targeted-to-uri
VA_01	presentation restricted	history
VA_02	presentation allowed	Header absent or 'none'

TP number	TP_305_030	Reference	[1], clause 7.2.1	
			[2], clauses 7.4.6.2.3,	
			table, 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/		,	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5		
Test Purpose name	Mapping of Redirection Information	ation Redirecting indicator		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present.			
	A Privacy header is escaped in the second last hi-targeted-to-uri and the <b>PRIV_value</b> mapped from the Redirecting indicator of the Redirection Information as indicated in table 6.2.5-21			
ISUP Parameter values	IAM: Redirection Information			
	Redirecting indicator=RDIND_value			
SIP Parameter values	INVITE:			
	History-Info:			
	<sip:any proper="" th="" uri?re<=""><th>eason=SIP;cause=404&gt;; index</th><th><b>=</b>1,</th></sip:any>	eason=SIP;cause=404>; index	<b>=</b> 1,	
	<sip:any proper="" th="" uri?pr<=""><th>ivacy=<b>PRIV_value</b>&amp;Reason=\$</th><th>SIP;cause=any&gt;; index=1.1,</th></sip:any>	ivacy= <b>PRIV_value</b> &Reason=\$	SIP;cause=any>; index=1.1,	
	<sip:any proper="" uri="">; i</sip:any>	ndex=1.1.1		
	INVITE (IAM):			
	No History-Info			
Comments				
Message flows	SIP-I	MGCF	SIP-I	
-	INVITE (IAM) →	→ INV	ITE	
		Apply post test routine	_	

Table 6.2.5-21: Mapping of Redirecting indicator into Privacy header in the second last Hist-entry

	RDIND_value	PRIV_value second last hi-targeted-to-uri
VA_01	Call diverted, all redirection info presentation restricted	history
VA_02	Call diverted	none
	Call diverted <b>AND</b> Redirecting number APRI presentation restricted	history

TP number	TP 305 031	Reference	[1], clause 7.3.1
Ti mamber	11 _000_001	resistance	[2], clauses 7.4.6.2.3,
			table, 7.4.6.2.3.1
T00	DOTNI GO/ODIV//		[table, 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/5	
Test Purpose name	Mapping of Redire	ection Information Redirection co	unter
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number and a Redirection Information parameter, an INVITE request is sent and a the hi-targeted-to-uri and the index parameter of the Redirection counter as indicated in table 6.2.5-22		
ISUP Parameter values IAM: Redirection Information			
	Redirec	ction counter=RDCONT_value	
SIP Parameter values	INVITE:		
	History-Info: I	ENTRY values	
	INVITE (IAM):	_	
	No History-Inf	O	
Comments	•		
Message flows	SIP – I	MGCF	SIP NNI
_	INVITE (IAM)	→	→ INVITE
	, ,	Apply post test	routine

Table 6.2.5-22: Mapping of Redirection counter into index parameter of History-Info header

	RDCONT_value	ENTRY_values
VA_01	1	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1</sip:>
VA_02	2	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1</sip:>
VA_03	3	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1,</sip:>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1</sip:>
VA_04	4	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1,</sip:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.</sip:>
VA_05	5	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:></pre>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1.</sip:>

TP number	TP_305_032	Ref	erence	[1], clause 7.3.1
				[2], clauses 7.4.6.2.3,
				table, 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/			•
Selection criteria	PICS 6.3.1/1 AN	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Redirection Information Original redirection reason			
Test Purpose Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirect			IAM containing a Redirection	
	number an Origin	nal called number a	and a Redirection In	nformation parameter, an INVITE
	request is sent.	The Original redired	tion reason indicat	or 'unknown' of the Redirection
	Information is ma	Information is mapped into the cause parameter value '404' of the first hi-targeted-to-uri of		
the History-Info header in the sent INVITE.			_	
ISUP Parameter values	IAM: Redirection	on Information		
	Origin	al redirection reaso	n= <b>unknown</b>	
SIP Parameter values	INVITE:			
	History-Info:	<sip:any proper="" th="" u<=""><th>RI?Reason=SIP;c</th><th>ause=<b>404</b>&gt;; index=1,</th></sip:any>	RI?Reason=SIP;c	ause= <b>404</b> >; index=1,
		<sip:any proper="" th="" u<=""><th>RI?Reason=SIP;c</th><th>ause=any&gt;; index=1.1,</th></sip:any>	RI?Reason=SIP;c	ause=any>; index=1.1,
		<sip:any proper="" th="" u<=""><th></th><th>• • • • • • • • • • • • • • • • • • • •</th></sip:any>		• • • • • • • • • • • • • • • • • • • •
	INVITE (IAM):	. , , ,	,	
	No History-Ir	nfo		
Comments				
Message flows	SIP-I		MGCF	SIP NNII
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE
	,	Ą	oply post test rou	tine

Table 6.2.5-23: Void

TP number	TP_305_033	Refe	rence	[1], clause 7.3.1
				[2], clauses 7.4.6.2.3,
				table, 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of Redi	rection Information I	Redirecting reason	
Test Purpose Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirect			AM containing a Redirection	
	number an Origii	nal called number a	nd a Redirection Inf	ormation parameter, an INVITE
	request is sent.	The Redirecting reas	on indicator REAS	_value of the Redirection
	Information is ma	apped into the cause	parameter Cause	_value of the second last
	hi-targeted-to-uri	of the History-Info I	neader in the sent I	NVITE as indicated in
	table 6.2.5-24	•		
ISUP Parameter values	IAM: Redirection Information			
	Redire	ecting reason =REA	S_value	
SIP Parameter values	INVITE:			
	History-Info:	<sip:any proper="" th="" uf<=""><th>RI?Reason=SIP;ca</th><th>use=404&gt;; index=1,</th></sip:any>	RI?Reason=SIP;ca	use=404>; index=1,
		<sip:any proper="" th="" uf<=""><th>RI?Reason=SIP;ca</th><th>use=Cause_value&gt;; index=1.1,</th></sip:any>	RI?Reason=SIP;ca	use=Cause_value>; index=1.1,
		<sip:any proper="" th="" uf<=""><th>RI&gt;; index=1.1.1</th><th></th></sip:any>	RI>; index=1.1.1	
	INVITE (IAM):			
	No History-In	nfo		
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE
	, ,	Ар	ply post test routi	ne

Table 6.2.5-24: Mapping of Redirecting reason into Reason header in the second last Hist-entry

	REAS_value	Cause_value Second last hi-targeted-to-uri
VA_01	Unknown	404
VA_02	Unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	302
VA_06	Deflection immediate response	302
VA_07	Mobile subscriber not reachable	503

	——————————————————————————————————————			Tana a sa
TP number	TP_305_034	Reference	e	[1], clause 7.3.1
				[2], clauses 7.4.6.2.3,
				table, 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/	<b>-</b>		
Selection criteria	PICS 6.3.1/1 AN	D PICS 6.3.2/5		
Test Purpose name	Mapping of Calle	ed party number Address	Signals	
Test Purpose	Ensure that on re	eceipt of an INVITE with	encapsulated IAM	containing a Redirecting
	number paramet	er and a Redirection Info	ormation parameter	r, an INVITE request is sent and
	a History-Info he	ader is present. The Cal	led party number is	s mapped into the last
		of the History-Info head		
ISUP Parameter values	IAM: Called party number			
	Natur <sub>e</sub>	e of Address: NoA_valu	е	
	Address Signals			
SIP Parameter values	INVITE:			
	History-Info:	<sip:any proper="" th="" uri?r<=""><th>eason=SIP;cause=</th><th>=404&gt;; index=1,</th></sip:any>	eason=SIP;cause=	=404>; index=1,
		<sip:any proper="" th="" uri?r<=""><th>eason=SIP;cause=</th><th>any&gt;; index=1.1</th></sip:any>	eason=SIP;cause=	any>; index=1.1
	<pre><sip:value called="" number="" of="" party="">; index=1.1.1</sip:value></pre>			
	INVITE (IAM):		,	
	No History-I	nfo		
Comments				
Message flows	SIP-I	MG	CF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ IN'	VITE
	, ,	Apply I	oost test routine	

Table 6.2.5-25: Mapping of Called party number into last Hist-entry

	NoA_value	Value of Called party number last hi-targeted-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Called party number
VA_02	international number	Add '+' to the Address Signal digits of the Called party number

TP number	TP_305_035	Reference	[1], clause 7.3.1		
			[2], clauses 7.4.6.2.3,		
			table, 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/5			
Test Purpose name	Mapping of Original called nur	nber Address Signals			
Test Purpose		IVITE with encapsulated IAM c			
	number parameter and a Redi	rection Information parameter,	an INVITE request is sent and		
	a History-Info header is presen	nt. The value of the first hi-targe	eted-to-uri Value of Original		
	called number is mapped from	m the Original called number A	ddress Signals as indicated in		
	table 6.2.5-26	· ·	· ·		
ISUP Parameter values	IAM: Original called number				
	Nature of Address: NoA value				
	Address Signals < <b>Digits</b> >				
SIP Parameter values	INVITE:				
	History-Info: <sip:original called="" number?reason="SIP;cause=404">; index=1</sip:original>				
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1.1</sip:any>				
	<pre><sip:any proper="" uri="">; index=1.1.1</sip:any></pre>				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM) →	→ INV	ITE		
	, ,	Apply post test routine			

Table 6.2.5-26: Mapping of Original called number into first Hist-entry

	NoA_value	Value of Original called number First hi-targeted-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Original called number
VA 02	international number	Add '+' to the Address Signal digits of the Original called number

TP number	TP_305_036	Reference	[1], clause 7.3.1	
			[2], clauses 7.4.6.2.3,	
			table, 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	<u> </u>	<u> </u>	
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/5		
Test Purpose name	Mapping of Origina	al called number Address presen	tation restricted indicator	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing an Original called number parameter, an INVITE request is sent and a History-Info header is present. A Privacy header escaped in the first hi-targeted-to-uri and the <b>PRIV_value</b> is mapped from			
	the Address prese table 6.2.5-27	ntation restricted indicator of the	Original called number as indicated in	
ISUP Parameter values	IAM: Original called number			
	Address	s presentation restricted indicator	r: APRI_value	
	Address	s Signals <any appropriate="" th="" value<=""><th>&gt;</th></any>	>	
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri?privacy="&lt;b">PRIV_value&amp;Reason=SIP;cause=404&gt;; index=1.</sip:any>			
		sip:any proper URI?Reason=SI	P;cause=any>; index=1.1	
		<sip:any proper="" uri="">; index=1.1.</sip:any>		
	INVITE (IAM):			
	No History-Info			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
-	INVITE (IAM) → INVITE			
		Apply post test i	routine	

Table 6.2.5-27: Mapping of Original called number APRI into Privacy header in the first Hist-entry

	APRI_value	PRIV_value first hi-targeted-to-uri
VA_01	presentation restricted	history
VA 02	presentation allowed	none

TP number	TP_305_037	Reference	[1], clause 7.2.1	
			[2], clauses 7.4.6.3.2,	
			table, 7.4.6.3.2.2	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5		
Test Purpose name	Latest History-Info hea	ader field entry containing a	Reason header is mapped into	
	Redirecting number Na	ature of address indicator	• •	
Test Purpose	Ensure that on receipt	of an INVITE request conta	aining a History-Info header, an INVITE	
			number an Original called number and a	
			Nature of address indicator of the	
			story-Info header field entry in the format	
	+'CC+NDC+SN' conta	ining a Reason header as	ndicated in table 6.2.5-28	
ISUP Parameter values	IAM: Redirecting nur	mber		
	Nature of a	ddress indicator=NoA_valu	e	
SIP Parameter values	INVITE:			
		any proper URI>; index=1,		
			eason=SIP;cause=any>; index=1.1,	
	<sip:< th=""><th>any proper URI&gt;; index=1.</th><th>1.1</th></sip:<>	any proper URI>; index=1.	1.1	
	INVITE (IAM):			
	No History-Info			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	VITE → INVITE (IAM)		
	100 Trying	<b>←</b>	·	
		Apply post test routine		

Table 6.2.5-28: Mapping of second last first Hist-entry into Redirecting number Nature of address indicator

	Second last entry URI	NoA_value
VA_01	CC is equal to the country code of the country	national (significant) number
	where MGCF is located AND the next ISUP node	
	is located in the same country	
VA_02	CC is <b>not</b> equal to the country code of the country	international number
	where MGCF is located	

TP number	TP 305 038	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.2
TSS reference	PSTN-SS/CDIV/	•	· · · · · · · · · · · · · · · · · · ·
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5	
Test Purpose name	Latest History-Info header field Redirecting number Address s		eader is mapped into
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address signal</b> of the Redirecting number is mapped from the latest History-Info header field entry in the format +'CC+NDC+SN' containing a Reason header as indicated in table 6.2.5-29		
ISUP Parameter values	IAM: Redirecting number  Address signal deriv	ved from the second last Hist-	entry
SIP Parameter values		per URI>; index=1, I <b>last entry URI</b> ?Reason=SIP; per URI>; index=1.1.1	cause=any>; index=1.1,
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
	Apply post test routine		

Table 6.2.5-29: Mapping of second last first Hist-entry into Redirecting number Address signal

	Second last entry URI	NoA_value
VA_01	CC is equal to the country code of the country	'+CC' is removed from the userpart digit string
	where MGCF is located AND the next ISUP	used in the Redirecting number Address signal
	node is located in the same country	
VA_02	CC is <b>not</b> equal to the country code of the	'+' is removed from the userpart digit string
	country where MGCF is located	used in the Redirecting number Address signal

TP number	TP_305_039	Reference	[1], clause 7.2.1		
			[2], clauses 7.4.6.3.2,		
			table, 7.4.6.3.2.2		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5			
Test Purpose name	Latest History-Info header field	entry containing a Reason hea	ader escaped Privacy header		
	is mapped into Redirecting nun				
Test Purpose	Ensure that on receipt of an IN				
	with encapsulated IAM is sent				
	Redirection information parame				
	indicator of the Redirecting nu				
	latest History-Info header field	entry containing a Reason hea	der as indicated in		
	table 6.2.5-30				
ISUP Parameter values	IAM: Redirecting number				
	Address presentation restricted indicator=APRI_value				
SIP Parameter values	INVITE:				
	History-Info:				
	<sip:any appropriate="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,</sip:any>				
	<sip:any proper="" uri="">; in</sip:any>	ndex=1.1.1			
	INVITE (IAM):				
	No History-Info				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

TP number	TP 305 040	Reference	[1], clause 7.2.1
Ti Tidilibei	11 _000_010	Reference	[2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.2
TSS reference	PSTN-SS/CDIV/		table, 7.4.0.3.2.2
Selection criteria	PICS 6.3.1/1 AND PICS	2 6 2 2/F	
			A -l -l
Test Purpose name	indicator	ed into Redirecting number	Address presentation restricted
Test Purpose			ning a History-Info header, a INVITE
			ımber an Original called number and a
	Redirection information	parameter is present. The	Address presentation restricted
	indicator of the Redirect	cting number is mapped fror	n the Privacy header of the received
	INVITE request as indic	cated in table 6.2.5-30	
ISUP Parameter values	IAM: Redirecting num	ber	
	Address pres	sentation restricted indicator	=APRI_value
SIP Parameter values	INVITE:		
	Privacy: PRIV_value	e	
	History-Info: <sip:a< th=""><th>any appropriate URI&gt;; index</th><th>=1,</th></sip:a<>	any appropriate URI>; index	=1,
		any proper URI?Reason=SIF	
		any proper URI>; index=1.1.	
	INVITE (IAM):	,	
	No History-Info		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<b>←</b>	, ,
	, ,	Apply post test r	outine

Table 6.2.5-30: Mapping of Privacy header into Redirecting number Address presentation restricted indicator

	PRIV_value	APRI_value
VA_01	history	presentation restricted
VA_02	session	presentation restricted
VA_03	header	presentation restricted
VA_04	none	presentation allowed
VA_05	Header absent	presentation allowed

TP number	TP 305 041	Reference	[1], clause 7.2.1	
Thumbo.	11 _000_011	11010101100	[2], clauses 7.4.6.3.2,	
			table, 7.4.6.3.2.3	
TSS reference	PSTN-SS/CDIV/		table, 1.4.0.3.2.3	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	•		
		•	ion Dodinaction indicator	
Test Purpose name	Escaped Privacy header is map			
Test Purpose	Ensure that on receipt of an IN			
	with encapsulated IAM is sent a			
	Redirection information parame			
	Redirection information is mapp			
	Info header field entry containir	ng a Reason header in the rec	eived INVITE request as	
	indicated in table 6.2.5-31			
ISUP Parameter values	IAM: Redirection information			
	Redirecting indicator=RDIND_value			
SIP Parameter values	INVITE:			
	History-Info:			
	<sip:any appropriate="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,</sip:any></pre>			
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
	INVITE (IAM):	100X=1.1.1		
Comments	No History-Info			
	CID MAII	МОСТ	CID I	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

TP number	TP_305_042	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	Privacy header is mapped into	Redirection information Redir	ecting indicator
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, a INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting indicator</b> of the Redirection information is mapped from the Privacy header in the received INVITE request as indicated in table 6.2.5-31		
ISUP Parameter values	IAM: Redirection information		
	Redirecting indicator	r=RDIND_value	
SIP Parameter values	INVITE:		
	Privacy: PRIV_value		
	History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>		
	INVITE (IAM):		
	No History-Info		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
	Apply post test routine		

Table 6.2.5-31: Mapping of Privacy header into Redirecting indicator

	PRIV_value	RDIND_value	
VA_01		Call diverted, all redirection info	
		presentation restricted	
VA_02	session	Call diverted, all redirection info	
		presentation restricted	
VA_03	header	Call diverted, all redirection info	
		presentation restricted	
VA_04	none	Call diverted	
VA_05	Privacy header field absent	Call diverted	

TP_305_043	Reference	[1], clause 7.2.1
		[2], clauses 7.4.6.3.2,
		table, 7.4.6.3.2.3
PSTN-SS/CDIV/		
PICS 6.3.1/1 AND PICS 6.3.2/5		
cause value is mapped into Red	direction information Redirection	ng reason
Redirection information parame	ter is present. The Redirectin	g reason of the Redirection
History-Info header field entry of	ontaining a Reason header in	the received INVITE request
as indicated in table 6.2.5-32		
IAM: Redirection information		
Original redirection reason=unknown/not available		
Redirecting reason=	REAS_value	
INVITE:		
History-Info: <sip:any appr<="" th=""><th>opriate URI&gt;; index=1,</th><th></th></sip:any>	opriate URI>; index=1,	
<pre><sip:any proper="" uri?reason="SIP;cause=Cause_value">; index=1.1,</sip:any></pre>		
<sip:any proper="" uri="">; index=1.1.1</sip:any>		
INVITE (IAM):		
No History-Info		
SIP NNI	MGCF	SIP-I
INVITE →	<b>→</b>	INVITE (IAM)
100 Trying ←		
Apply post test routine		
	PSTN-SS/CDIV/ PICS 6.3.1/1 AND PICS 6.3.2/5 cause value is mapped into Rec Ensure that on receipt of an INV with encapsulated IAM is sent a Redirection information parame information is mapped from the History-Info header field entry of as indicated in table 6.2.5-32 IAM: Redirection information Original redirection in Redirecting reason= INVITE: History-Info: <sip:any (iam):="" <sip:any="" appr="" history-info="" invite="" invite<="" nni="" no="" prop="" sip="" th=""><th>PSTN-SS/CDIV/ PICS 6.3.1/1 AND PICS 6.3.2/5 cause value is mapped into Redirection information Redirecting Ensure that on receipt of an INVITE request containing a Hist with encapsulated IAM is sent and a Redirecting number an C Redirection information parameter is present. The Redirectin information is mapped from the cause parameter of the Rease History-Info header field entry containing a Reason header in as indicated in table 6.2.5-32 IAM: Redirection information     Original redirection reason=unknown/not available     Redirecting reason=REAS_value INVITE: History-Info: <sip:any appropriate="" uri="">; index=1,     <sip:any <sip:any="" proper="" uri="" uri?reason="SIP;cause=C">; index=1.1.1 INVITE (IAM):     No History-Info  SIP NNI     MGCF INVITE  100 Trying</sip:any></sip:any></th></sip:any>	PSTN-SS/CDIV/ PICS 6.3.1/1 AND PICS 6.3.2/5 cause value is mapped into Redirection information Redirecting Ensure that on receipt of an INVITE request containing a Hist with encapsulated IAM is sent and a Redirecting number an C Redirection information parameter is present. The Redirectin information is mapped from the cause parameter of the Rease History-Info header field entry containing a Reason header in as indicated in table 6.2.5-32 IAM: Redirection information     Original redirection reason=unknown/not available     Redirecting reason=REAS_value INVITE: History-Info: <sip:any appropriate="" uri="">; index=1,     <sip:any <sip:any="" proper="" uri="" uri?reason="SIP;cause=C">; index=1.1.1 INVITE (IAM):     No History-Info  SIP NNI     MGCF INVITE  100 Trying</sip:any></sip:any>

Table 6.2.5-32: Mapping of cause parameter in the second last Hist-entry into Redirecting reason

	Cause_value Second last hi-targeted-to-uri	REAS_value
VA_01	302	Deflection immediate response
VA_02	486	User Busy
VA_03	408	No reply
VA_04	503	Mobile subscriber not reachable
VA_05	404	unknown

TP number	TP_305_044	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	Hi-index is mapped into Redire	ction information Redirection of	counter
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirection counter</b> of the Redirection information is mapped from the hi-index of the last History-Info header field entry in the received INVITE request as indicated in table 6.2.5-33. The number of dots in the hi-index value is equal to the value of the Redirection counter		
ISUP Parameter values	IAM: Redirection information		
	Redirection counter=RDCONT_value		
SIP Parameter values	INVITE: History-Info: ENTRY_valu INVITE (IAM): No History-Info	ies	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
		Apply post test routine	

Table 6.2.5-33: Mapping of Redirection counter into index parameters of History-Info header

	ENTRY_values	RDCONT_value
VA_01	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	1
	<sip: called="" number="" party="" represents="" the="">; index=1.1</sip:>	
VA_02	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	2
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1</sip:>	
VA_03	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	3
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1</sip:>	
VA_04	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	4
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1</sip:>	
VA_05	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	5
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:>	
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1.1.1,</sip:></pre>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1.</sip:>	

TP number	TP_305_045	Reference	[1], clause 7.2.1 [2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	First History-Info header field e address indicator	entry is mapped into Original ca	alled number Nature of
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Nature of address indicator</b> of the Original called number is mapped from the first History-Info header field entry in the format +'CC+NDC+SN' as indicated in table 6.2.5-34		
ISUP Parameter values	IAM: Original called number  Numbering Plan Indicator=ISDN (Telephony) numbering plan  (Recommendation E.164 [i.1])  Nature of address indicator=NoA_value		
SIP Parameter values	INVITE: History-Info: <sip:first <sip:any="" en="" prop<="" th=""><th></th><th>any&gt;; index=1.1,</th></sip:first>		any>; index=1.1,
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
		Apply post test routine	

Table 6.2.5-34: Mapping of first Hist-entry into Original called number Nature of address indicator

	First entry URI	NoA_value
VA_01	CC is equal to the country code of the country	national (significant) number
	where MGCF is located AND the next ISUP	
	node is located in the same country	
VA_02	CC is <b>not</b> equal to the country code of the	international number
	country where MGCF is located	

TP number	TP_305_046	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.4
TSS reference	PSTN-SS/CDIV/	-	,
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/5	
Test Purpose name	First History-Info header field	entry is mapped into Original	called Address signal
Test Purpose	Ensure that on receipt of an I	NVITE request containing a H	listory-Info header, an INVITE
			n Original called number and a
		meter is present. The <b>Address</b>	
		irst History-Info header field e	ntry in the format
	+'CC+NDC+SN' as indicated	in table 6.2.5-35.	
ISUP Parameter values	IAM: Original called		
	Numbering Plan Ir	idicator=ISDN (Telephony) nu	<b>.</b>
	(Recommendation E.164 [i.1])		
	Address signal derived from the first Hist-entry		
SIP Parameter values	INVITE:		
	History-Info: <sip:first entry="" uri="">; index=1,</sip:first>		
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any></pre>		
		oper URI>; index=1.1.1	
	INVITE (IAM):		
	No History-Info		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE → INVITE (IAM)		
	100 Trying ←		
	Apply post test routine		

Table 6.2.5-35: Mapping of first Hist-entry into Original called number Address signal

	First entry URI	NoA_value
	where MGCF is located AND the next ISUP	'+CC' is removed from the userpart digit string used in the Original
	node is located in the same country	called number Address signal
VA_02	CC is <b>not</b> equal to the country code of the country where MGCF is located	'+' is removed from the userpart digit string used in the Original
		called number Address signal

TP number	TP_305_047	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.2,
			table, 7.4.6.3.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	First History-Info header field e	ntry escaped Privacy header is	s mapped into Original called
	number Address presentation r	estricted indicator	-
Test Purpose	Ensure that on receipt of an IN'	VITE request containing a Hist	ory-Info header, an INVITE
	with encapsulated IAM is sent a		
	Redirection information parame	eter is present. The Address p	resentation restricted
	indicator of the Original called	number is mapped from the es	scaped Privacy header of the
	first History-Info header field er	try as indicated in table 6.2.5-3	36
ISUP Parameter values	IAM: Original called		
	Address presentatio	n restricted indicator= <b>APRI_va</b>	llue
SIP Parameter values	INVITE:		
		ropriate URI?Privacy= <b>PRIV_va</b>	
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any></pre>		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>		
	INVITE (IAM):		
	No History-Info		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←		
		Apply post test routine	

TP number	TP_305_048	Reference	[1], clause 7.2.1	
			[2], clauses 7.4.6.3.2, table, 7.4.6.3.2.4	
TSS reference	PSTN-SS/CDIV/	•		
Selection criteria	PICS 6.3.1/1 AND PICS 6	5.3.2/5		
Test Purpose name	Privacy header is mapped indicator	d into Original called numb	er Address presentation restricted	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Original called number is mapped from the Privacy header of the received INVITE request as indicated in table 6.2.5-36			
ISUP Parameter values	IAM: Original called Address prese	ntation restricted indicator:	=APRI_value	
SIP Parameter values	INVITE:			
	Privacy: <b>PRIV_value</b>			
	History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>			
		y proper URI?Reason=SIF		
	<sip:any< th=""><th>y proper URI&gt;; index=1.1.</th><th>1</th></sip:any<>	y proper URI>; index=1.1.	1	
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>		
		Apply post test re	outine	

Table 6.2.5-36: Mapping of Privacy header into Redirecting number Address presentation restricted indicator

	PRIV_value	APRI_value
VA_01	history	presentation restricted
VA_02	session	presentation restricted
VA_03	header	presentation restricted
VA_04	none	presentation allowed
VA_05	Header absent	presentation allowed

TP number	TP_305_049		Reference		[1], clause 7.2.1
ir number	17_303_049	r	reference		[2], clauses 7.4.6.3.3,
					:
					table, 7.4.6.3.3.1,
T00 (					table, 7.4.6.3.3.3
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND				
Test Purpose name		Mapping of 181 Being forwarded with encapsulated ACM Redirection number into 181 (Being forwarded) History-Info header			
Test Purpose		Ensure that on receipt of a 181 Being forwarded with encapsulated ACM a Redirection			
-	number and the C	all diversion pa	arameter is present a	as an ind	dication a call diversion
	occurred, a 181 (E	Being forwarde	d) is sent. The Redir	rection n	umber is mapped into the hi-
					y in the sent 181 as indicated
	in table 6.2.5-37	•	ŭ		
ISUP Parameter values	ACM: Backward	call indicator			
	Called	party statue='n	o indication'		
	Generic notification=call is diverting				
	Call divers	ion information	Ü		
	Redirection	n number			
	Nature	of address indi	cator=NOA_value		
	Addres	s signal <b>Digits</b>			
SIP Parameter values	181:				
	History-Info:	<sip:unknown@< th=""><th>@unknown.invalid&gt;;</th><th>index=1</th><th>,</th></sip:unknown@<>	@unknown.invalid>;	index=1	,
		<sip: last_hi<="" th=""><th>ST_URI;cause=any</th><th>&gt;; index</th><th>=1.1</th></sip:>	ST_URI;cause=any	>; index	=1.1
	OR	•			
			@unknown.invalid?R <b>ST URI</b> >; index=1.1		SIP;cause=any>; index=1,
	181 (ACM):	. –	<i>_ ,</i>		
	No History-Inf	fo			
Comments	1 111				
Message flows	SIP NNI		MGCF		SIP-I
	INVITE	<b>→</b>		<b>→</b>	INVITE (IAM)
	181 Being forward	=		<b>-</b>	181 Being forwarded
				=	(ACM)
			Apply post test ro	utine	· - /

Table 6.2.5-37: Mapping Redirection number into History-Info header

	NOA_value	History-Info header: LAST_HIST_URI
VA_01	national (significant) number	Add '+' and CC (of the country where the MGCF is located) to Redirection number Address Signals then map to user portion of the last hi-targeted-to-uri in the format '+ CC NDC SN'.
VA_01	international number	Map complete Redirection number Address Signals and '+' to user portion of the last hi-targeted-to-uri in the format '+ CC NDC SN'

TP number	TP_305_050	Reference	[1], clause 7.2.1		
			[2], clauses 7.4.6.3.3,		
			table, 7.4.6.3.3.1,		
			table, 7.4.6.3.3.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	NOT PICS 6.3.5/2 AND PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name		ded with encapsulated ACM Re	edirecting reason into 181		
	(Being forwarded) History-Info				
Test Purpose		81 Being forwarded with encap			
		n parameter is present as an ir			
		rded) is sent. The Call diversio			
		use parameter of the last hi-ta	argeted-to-uri in a History-Info		
	header in the sent 181 as ind	icated in table 6.2.5-38			
ISUP Parameter values	r values ACM: Backward call indicator				
	Called party statue	='no indication'			
	Generic notification=ca	all is diverting			
	Redirection number				
	Call diversion informat	ion			
	Redirecting reason	=REAS_value			
SIP Parameter values	181:				
	History-Info:				
	<sip:unknown@unkno< th=""><th></th><th></th></sip:unknown@unkno<>				
	<sip:derived from="" red<="" th=""><th>irection number;cause=<b>Cause</b></th><th>_value&gt;; index=1.1</th></sip:derived>	irection number;cause= <b>Cause</b>	_value>; index=1.1		
	or				
	History-Info:				
	<sip:unknown@unkno< th=""><th>wn.invalid?Reason=SIP;cause</th><th>e=Cause_value&gt;; index=1,</th></sip:unknown@unkno<>	wn.invalid?Reason=SIP;cause	e=Cause_value>; index=1,		
	<sip:derived from="" red<="" th=""><th>irection number&gt;; index=1.1</th><th></th></sip:derived>	irection number>; index=1.1			
	181 (ACM):				
	No History-Info				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b>	INVITE (IAM)		
	181 Being forwarded	<b>+</b>	181 Being forwarded (ACM)		
	-	Apply post test routine	-		

Table 6.2.5-38: Mapping of Redirecting reason into cause parameter

CAUSE	Redirecting_Reason REAS_value	Cause parameter, CAUSE_value
VA_01	unknown	404
VA_02	unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	302
VA_06	Deflection immediate response	302
VA 07	Mobile subscriber not reachable	503

TP number	TP_305_051	Reference	[1], clause 7.2.1		
			[2], clauses 7.4.6.3.3,		
			table, 7.4.6.3.3.1,		
			table, 7.4.6.3.3.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Being forwarded with encapsulated ACM Redirecting reason into 181				
	(Being forwarded) History-Info header Reason header				
Test Purpose	Ensure that on receipt of an181 Being forwarded with encapsulated ACM a Redirection				
	number and the Call diversion				
	occurred, a 181 (Being forward				
	reason is mapped into the Rea	son header of the second last	hi-targeted-to-uri in a History-		
	Info header in the sent 181 as i	ndicated in table 6.2.5-39			
ISUP Parameter values	ACM: Backward call indicator				
	Called party status=	no indication			
	Generic notification=call	is diverting			
	Redirection number				
	Call diversion information				
	Redirecting reason =	-REAS_value			
SIP Parameter values	181:				
	History-Info:				
	<sip:unknown@unknow< th=""><th>n.invalid&gt;; index=1,</th><th></th></sip:unknown@unknow<>	n.invalid>; index=1,			
	<sip:derived from="" redire<="" th=""><th>ection number;cause=Cause_</th><th>value &gt;; index=1.1</th></sip:derived>	ection number;cause=Cause_	value >; index=1.1		
	or				
	History-Info:				
	<sip:unknown@unknow< th=""><th>n.invalid?Reason=SIP;cause=</th><th>:Cause_value&gt;; index=1,</th></sip:unknown@unknow<>	n.invalid?Reason=SIP;cause=	:Cause_value>; index=1,		
	<sip:derived from="" redire<="" th=""><th>ection number&gt;; index=1.1</th><th></th></sip:derived>	ection number>; index=1.1			
	181 (ACM):				
	No History-Info				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<b>→</b>	INVITE (IAM)		
	181 Being forwarded ←	<b>←</b>	181 Being forwarded (ACM)		
	Apply post test routine				

Table 6.2.5-39: Mapping of Redirecting reason into Reason header

CAUSE	Redirecting_Reason REAS_value	Reason header, CAUSE_value
VA_01	Unknown	302
VA_02	Unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	302
VA_06	Deflection immediate response	302
VA 07	Mobile subscriber not reachable	503

TP number	TP 305 052	Reference	[1], clause 7.2.1	
	11 _000_002		[2], clauses 7.4.6.3.3,	
			table, 7.4.6.3.3.1,	
			table, 7.4.6.3.3.1,	
TCC reference	DOTAL CO/ODIV/		table, 7.4.0.3.3.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5		
Test Purpose name	Mapping of ACM Notification s	ubscription options no 181 (Be	ing forwarded) is sent	
Test Purpose	Ensure that on receipt of a 181	Being forwarded with encaps	ulated ACM a Redirection	
	number and the Call diversion			
	occurred, if the Call diversion in			
	presentation not allowed no			
ISUP Parameter values		To T (Being forwarded) is sent		
150F Farameter values	ACM:			
	Generic notification=cal	i is diverting		
	Redirection number			
	Call diversion information	on		
	Notification subscrip	tion options=presentation not	allowed	
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
		<b>←</b>	181 Being forwarded with	
		•	encapsulated (ACM)	
	Apply post test routine			
L		1.1. 7 1		

TP number	TP_305_053	Reference	[1], clause 7.2.1	
			[2], clauses 7.4.6.3.3,	
			table, 7.4.6.3.3.1,	
			table, 7.4.6.3.3.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/5		
Test Purpose name		Mapping of 181 Being forwarded with encapsulated ACM Notification subscription options into 181 (Being forwarded) escaped Privacy header		
Test Purpose	Ensure that on receipt of a 18	31 Being forwarded with encaps	sulated ACM a Redirection	
	number and the Call diversion	n parameter is present as an in	dication a call diversion	
	occurred, a 181 (Being forwa	rded) is sent. The Call diversion	n information Notification	
	subscription options is mappe	ed into the escaped Privacy hea	ader of the last hi-targeted-to-	
	uri in a History-Info header in	the sent 181 as indicated in tal	ble 6.2.5-40	
ISUP Parameter values	ACM:			
	Generic notification=c	all is diverting		
	Redirection number			
	Call diversion information	tion		
	Notification subscr	iption options= <b>NSO_value</b>		
SIP Parameter values	181:			
	History-Info:			
	<sip:unknown@unknown< th=""><th>invalid&gt;; index=1,</th><th></th></sip:unknown@unknown<>	invalid>; index=1,		
	<sip:any proper="" th="" uri;caus<=""><th>e=any?Privacy=PRIV_value &gt;</th><th>index=1.1</th></sip:any>	e=any?Privacy=PRIV_value >	index=1.1	
Comments		•		
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	INVITE (IAM)	
	181 Being forwarded	<b>+ +</b>	181 Being forwarded (ACM)	
		Apply post test routine	3	

Table 6.2.5-40: Mapping of Notification subscription options into Privacy header

CAUSE	NSO_value	PRIV_value
VA_01	Unknown	history
VA_02	presentation allowed with redirection number	Header not present
VA_03	presentation allowed without redirection number	history

TP number	TP_305_054	Reference	[1], clause 7.2.1 [2], clauses 7.4.6.3.3, table, 7.4.6.3.3.1,	
T00	DOTAL 00/00 !! //		table, 7.4.6.3.3.4	
TSS reference	PSTN-SS/CDIV/	-		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Being forwarded with encapsulated CPG Redirection number into 181 (Being forwarded) History-Info header			
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Redirection number is mapped into the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-37			
ISUP Parameter values	CPG: Event=Progress Generic notification=ca Call diversion informati Redirection number Nature of address i Address signal Dig	on ndicator= <b>NOA_value</b>		
SIP Parameter values	181: History-Info: <sip:unknov< th=""><th>vn@unknown.invalid&gt;; index=1 HIST_URI;cause=any&gt;; index=</th><th></th></sip:unknov<>	vn@unknown.invalid>; index=1 HIST_URI;cause=any>; index=		
Comments				
Message flows	SIP NNI INVITE 180 Ringing 181 Being forwarded	÷	SIP-I INVITE (IAM) 180 Ringing (ACM) 181 Being forwarded (CPG)	
		Apply post test routine		

TP number	TP_305_055	Reference		[1], clause 7.2.1	
ir number	11 _505_055	Kelefelice		[2], clauses 7.4.6.3.3,	
				table, 7.4.6.3.3.1,	
T00 (	DOTN 00/000//			table, 7.4.6.3.3.4	
TSS reference	PSTN-SS/CDIV/				
Selection criteria		6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Being forwarded with encapsulated CPG Redirecting reason into 181				
	(Being forwarded) History-Info header cause parameter				
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated CPG the Event				
	indicator is set to 'Progre	ss' a Redirection number	and the C	all diversion parameter is	
	present as an indication	a call diversion occurred, a	a 181 (Be	ing forwarded) is sent. The Call	
				cause parameter of the last	
	hi-targeted-to-uri in a His	story-Info header in the ser	nt 181 as	indicated in table 6.2.5-38	
ISUP Parameter values	CPG: Event=Progress				
	Generic notification	on=call is diverting			
	Redirection numb	er			
	Call diversion info	ormation			
	Redirecting re	ason = <b>REAS_value</b>			
SIP Parameter values	181:				
	History-Info:				
		nknown.invalid>; index=1,			
				=Cause_value>; index=1.1	
	or		,	_ ,	
	History-Info:				
		nknown.invalid?Reason=S	SIP:cause	=Cause_value>; index=1,	
		Redirection number>; inde			
Comments	10.01.00	,	<u> </u>		
Message flows	SIP NNI	MGCF		SIP-I	
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)	
	180 Ringing	<del>`</del>	÷	180 Ringing (ACM)	
	181 Being forwarded	÷	÷	181 Being forwarded (CPG)	
	101 Beilig lorwarded	=	=	101 being lorwarded (CPG)	
	Apply post test routine				

TP number	TP_305_056	Reference	[1], clause 7.2.1 [2], clauses 7.4.6.3.3, table, 7.4.6.3.3.1,
			table, 7.4.6.3.3.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/5	
Test Purpose name	Mapping of 181 Being forwarde (Being forwarded) History-Info		directing reason into 181
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Redirecting reason is mapped into the <b>Reason header</b> of the second last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-39		
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value		
SIP Parameter values	181:     History-Info: <sip:unknown@unknown.invalid>; index=1,             <sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1             or         History-Info:             <sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,             <sip: derived="" from="" number="" redirection="">; index=1.1</sip:></sip:unknown@unknown.invalid?reason=sip;cause=cause_value></sip:derived></sip:unknown@unknown.invalid>		
Comments			
Message flows	SIP NNI INVITE → 180 Ringing ← 181 Being forwarded ←	<b>←</b>	SIP-I INVITE (IAM) 180 Ringing (ACM) 181 Being forwarded (CPG)

TP number	TP_305_057	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.3,
			table, 7.4.6.3.3.1,
			table, 7.4.6.3.3.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	75	
Test Purpose name	Mapping of 181 Being forward no 181 (Being forwarded) is se	•	tification subscription options
Test Purpose	Ensure that on receipt of a 181		
	indicator is set to 'Progress' a		
	present as an indication a call		
	Notification subscription options is set to <b>presentation not allowed</b> no 181 (Being		
ISUP Parameter values	forwarded) is sent		
150P Parameter values	CPG: Event=Progress	U in all continue	
	Generic notification=call is diverting		
	Redirection number		
	Call diversion information  Notification subscription options=presentation not allowed		
	Notification subscrip	otion options=presentation not	allowed
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE ->	·	INVITE (IAM)
	180 Ringing ←	·	180 Ringing (ACM)
		<b>←</b>	181 Being forwarded (CPG)
		Apply post test routine	,

TP number	TP_305_058	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.3,
			table, 7.4.6.3.3.1,
			table, 7.4.6.3.3.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of 181 Being forwarde into 181 (Being forwarded) esc		ification subscription options
Test Purpose	Ensure that on receipt of a 181		ulated CPG the Event
-	indicator is set to 'Progress' a F		
	present as an indication a call	diversion occurred, a 181 (Beir	ng forwarded) is sent. The Call
	diversion information Notification	on subscription options is map	ped into the escaped Privacy
	header of the last		
	hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-40		
ISUP Parameter values	CPG: Event=Progress		
	Generic notification=cal	I is diverting	
	Redirection number		
	Call diversion information		
	Notification subscription options=NSO_value		
SIP Parameter values	181:		
	History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>		
		per URI;cause=any?Privacy= <b>P</b>	RIV_value >; index=1.1
	181 (CPG):		
	No History-Info		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)
	181 Being forwarded ←	<b>←</b>	181 Being forwarded (CPG)
		Apply post test routine	-

(Ringing) History-Info header Redire  Test Purpose  Ensure that on receipt of a 180 Ring to 'Alerting' a Redirection number is number Address signal digits are ma header in the sent 180 as indicated i	apsulated CPG Alerting Redirection number into 180 ecting reason is mapped into the cause parameter ging with encapsulated CPG the Event indicator is so present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infinition to the last hi-targeted parameter value is Redirecting reason as indicated in table 6.2.5-38 adication		
Selection criteria PICS 6.3.5/2 AND PICS 6.3.1/1 AND Test Purpose name Mapping of a 180 Ringing with encal (Ringing) History-Info header Redire Test Purpose Ensure that on receipt of a 180 Ring to 'Alerting' a Redirection number is number Address signal digits are ma header in the sent 180 as indicated i mapped from a previous received Re	table, 7.4.6.3.3.4  ID PICS 6.3.2/5  apsulated CPG Alerting Redirection number into 180 ecting reason is mapped into the cause parameter ging with encapsulated CPG the Event indicator is a present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infinitable 6.2.5-37 and the cause parameter value is Redirecting reason as indicated in table 6.2.5-38		
Selection criteria	D PICS 6.3.2/5 apsulated CPG Alerting Redirection number into 180 ecting reason is mapped into the cause parameter ging with encapsulated CPG the Event indicator is a present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infinitable 6.2.5-37 and the cause parameter value is Redirecting reason as indicated in table 6.2.5-38		
Selection criteria PICS 6.3.5/2 AND PICS 6.3.1/1 AND Test Purpose name Mapping of a 180 Ringing with encal (Ringing) History-Info header Redire Test Purpose Ensure that on receipt of a 180 Ring to 'Alerting' a Redirection number is number Address signal digits are ma header in the sent 180 as indicated i mapped from a previous received Re	apsulated CPG Alerting Redirection number into 180 ecting reason is mapped into the cause parameter ging with encapsulated CPG the Event indicator is so present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infinition to the last hi-targeted parameter value is Redirecting reason as indicated in table 6.2.5-38 adication		
Test Purpose name    Mapping of a 180 Ringing with encal (Ringing) History-Info header Redire   Test Purpose   Ensure that on receipt of a 180 Ring to 'Alerting' a Redirection number is number Address signal digits are material header in the sent 180 as indicated in mapped from a previous received Research.	apsulated CPG Alerting Redirection number into 180 ecting reason is mapped into the cause parameter ging with encapsulated CPG the Event indicator is so present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infinition to the last hi-targeted parameter value is Redirecting reason as indicated in table 6.2.5-38 adication		
(Ringing) History-Info header Redire  Test Purpose  Ensure that on receipt of a 180 Ring to 'Alerting' a Redirection number is number Address signal digits are ma header in the sent 180 as indicated i mapped from a previous received Re	ecting reason is mapped into the cause parameter ging with encapsulated CPG the Event indicator is so present, a 180 (Ringing) is sent. The Redirection happed into the last hi-targeted-to-uri in a History-Infinitable 6.2.5-37 and the cause parameter value is Redirecting reason as indicated in table 6.2.5-38		
Test Purpose  Ensure that on receipt of a 180 Ring to 'Alerting' a Redirection number is number Address signal digits are ma header in the sent 180 as indicated i mapped from a previous received Re	ging with encapsulated CPG the Event indicator is so present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infinitable 6.2.5-37 and the cause parameter value is Redirecting reason as indicated in table 6.2.5-38		
to 'Alerting' a Redirection number is number Address signal digits are matheader in the sent 180 as indicated in mapped from a previous received Research	s present, a 180 (Ringing) is sent. The Redirection apped into the last hi-targeted-to-uri in a History-Infin table 6.2.5-37 and the cause parameter value is redirecting reason as indicated in table 6.2.5-38		
number Address signal digits are ma header in the sent 180 as indicated i mapped from a previous received Re	napped into the last hi-targeted-to-uri in a History-Infinitable 6.2.5-37 and the cause parameter value is dedirecting reason as indicated in table 6.2.5-38 adication		
header in the sent 180 as indicated i mapped from a previous received Re	in table 6.2.5-37 and the cause parameter value is Redirecting reason as indicated in table 6.2.5-38 adication		
mapped from a previous received Re	Redirecting reason as indicated in table 6.2.5-38 adication		
	ndication		
ISIID Parameter values ACM: Packward call indicator			
Called party status=no inc	iverting		
Generic notification=call is div			
Call diversion information			
	Redirecting reason =REAS_value		
	Redirection number		
CPG: Event indicator=Alerting	•		
Redirection number			
Nature of address indicate	tor=NOA_value		
Address signal <b>Digits</b>			
SIP Parameter values 180:			
History-Info:			
	<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>		
<sip:derived from="" redirection<="" th=""><th colspan="3"><pre><sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1</sip:derived></pre></th></sip:derived>	<pre><sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1</sip:derived></pre>		
or			
History-Info:			
	/alid?Reason=SIP;cause= <b>Cause_value</b> >; index=1		
<sip:derived from="" redirection<="" th=""><th>n number&gt;; index=1.1</th></sip:derived>	n number>; index=1.1		
180 (CPG):			
No History-Info			
Comments			
Message flows SIP NNI	MGCF SIP-I		
INVITE →	→ INVITE (IAM)		
181 Being forwarded ←	← 181 Being forwarded (AC		
180 Ringing ←	← 180 Ringing (CPG)		
Ар	pply post test routine		

TP number	TP_305_060	Reference	[1], clause 7.2.1	
			[2], clauses 7.4.6.3.3,	
			table, 7.4.6.3.3.1,	
			table, 7.4.6.3.3.5	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/5		
Test Purpose name		Mapping of a 180 Ringing with encapsulated CPG Alerting Redirection number into 180		
	(Ringing) History-Info header Redirecting reason is mapped into the Reason header			
Test Purpose	Ensure that on receipt of a 180			
	to 'Alerting' a Redirection numb			
	number Address signal digits a			
	History-Info header in the sent	180 as indicated in table 6.2.5	5-37 and the Reason header	
		us received Redirecting reaso	n as indicated in table 6.2.5-38	
ISUP Parameter values	<b>ACM:</b> Backward call indicator			
	Called party status=			
	Generic notification=cal			
	Call diversion information	on		
	Redirecting reason =REAS_value			
	Redirection number			
	<b>CPG:</b> Event indicator=Alerting	•		
	Redirection number			
	Nature of address in	ndicator= <b>NOA_value</b>		
	Address signal <b>Digi</b>	ts		
SIP Parameter values	180:			
	History-Info:			
	<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>			
	<pre><sip: derived="" from="" number;cause="Cause_value" redirection="">; index=1.1</sip:></pre>			
	or			
	History-Info:			
	<sip:unknown@unknow< th=""><th>n.invalid?Reason=SIP;cause</th><th>=Cause_value&gt;; index=1,</th></sip:unknown@unknow<>	n.invalid?Reason=SIP;cause	=Cause_value>; index=1,	
	<sip: derived="" from="" redi<="" th=""><th>rection number&gt;; index=1.1</th><th></th></sip:>	rection number>; index=1.1		
	180 (CPG):			
	No History-Info			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
	181 Being forwarded ←	<b>+</b>	181 Being forwarded (ACM)	
	180 Ringing ←	<b>+</b>	180 Ringing (CPG)	
		Apply post test routine		
		processor commo		

TP number	TP_305_061	Reference	[1], clause 7.2.1 [2], clauses 7.4.6.3.3, table, 7.4.6.3.3.1,	
			table, 7.4.6.3.3.5	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Ringing with encar 180 (Ringing) Privacy header			
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated CPG the Event indicator is set to 'Alerting' a Redirection Number Restriction parameter is present, a 180 (Ringing) is sent. The Redirection Number Restriction parameter value is mapped into the Privacy header in the sent 180 as indicated in table 6.2.5-41.			
ISUP Parameter	ACM: Backward call indicator			
values	Called party status=no indication			
	Generic notification=call is diverting			
	Call diversion information			
	Redirection number			
	CPG: Event indicator=Alerting			
	Redirection Number Restriction=PRES_restr			
SIP Parameter values	180: History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>			
Comments		·		
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	181 Being forwarded ←	<b>←</b>	181 Being forwarded (ACM)	
	180 Ringing ←	<b>←</b>	180 Ringing (CPG)	
		Apply post test routine		

Table 6.2.5-41: Mapping of Redirection Number Restriction parameter into Privacy header

CAUSE	Redirection Number Restriction PRES_restr	Privacy PRIV_value
VA_01	Presentation allowed	'none' OR
		Header not present
VA 02	Presentation restricted	'History'

TP number	P_305_062	Reference	[1], clause 7.2.1
			[2], clauses 7.4.6.3.3,
			table, 7.4.6.3.3.1,
T00 == f========	2071 20/00/1		table, 7.4.6.3.3.6
	PSTN-SS/CDIV/	AND DIOC C O O/F	
	PICS 6.3.5/2 AND PICS 6.3.1/1		
	Mapping of 200 OK INVITE with History-Info header Redirecting		
	Insure that on receipt of a200		
	present, a 200 OK (INVITE) is sent. The Redirection number Address signal digits are		
	mapped into the last hi-targeted-to-uri in a History-Info header in the sent 200 OK as		
	ndicated in table 6.2.5-37 and t		mapped from a previous
	eceived Redirecting reason as	indicated in table 6.2.5-38	
ISUP Parameter values	ACM: Backward call indicator		
	Called party status=r		
	Generic notification=call		
	Call diversion informatio		
	Redirecting reason =	REAS_value	
	Redirection number		
	ANM:		
	Redirection number		
	Nature of address in		
	Address signal <b>Digit</b>	S	
SIP Parameter values 2	200 OK:		
	History-Info:		
	<sip:unknown@unknow< th=""><th></th><th></th></sip:unknown@unknow<>		
	<sip:last_hist_uri;cause=cause_value>; index=1.1</sip:last_hist_uri;cause=cause_value>		
	or		
	History-Info:		
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>		
	<sip:<b>LAST_HIST_URI&gt;;</sip:<b>	index=1.1	
2	200 OK (ANM):		
	No History-Info		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
II	NVITE →	<b>→</b>	INVITE (IAM)
	81 Being forwarded ←	+	181 Being forwarded (ACM)
	80 Ringing ←	<b>←</b>	180 Ringing (CPG)
	200 OK INVITE	<b>←</b>	200 OK INVITE (ANM)
	ACK →	<b>→</b>	ACK
		Apply post test routine	

TP number	TP_305_063	Reference	[1], clause 7.2.1	
I F Hulliber	TF_303_003		[2], clauses 7.4.6.3.3,	
			table, 7.4.6.3.3.1,	
			table, 7.4.6.3.3.6	
TSS reference	PSTN-SS/CDIV/		table, 7.4.6.3.3.6	
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	1 AND DICS 6 2 2/5		
			ion number into 200 OK	
Test Purpose name	Mapping of 200 OK INVITE with			
Test Purpose	History-Info header Redirecting reason is mapped into the Reason header  Ensure that on receipt of a200 OK INVITE with encapsulated ANM a Redirection number is			
rest Purpose	present, a 200 OK (INVITE) is sent. The Redirection number Address signal digits are			
	mapped into the last hi-targeted-to-uri in a History-Info header in the sent 200 as indicated in table 6.2.5-37 and the <b>Reason header</b> value is mapped from a previous received			
			om a previous received	
IOUD D	Redirecting reason as indicated	a in table 6.2.5-39		
ISUP Parameter values	ACM: Backward call indicator			
	Called party status=			
	Generic notification=call			
	Call diversion information	· = =		
	Redirecting reason =	=REAS_value		
	Redirection number			
	ANM:			
	Redirection number			
	Nature of address in			
	Address signal <b>Digit</b>	is		
SIP Parameter values	200 OK:			
	History-Info:			
	<sip:unknown@unknow< th=""><th></th><th></th></sip:unknown@unknow<>			
	<sip: any="" proper="" uri;cause="Cause_value">; index=1.1</sip:>			
	or			
	History-Info:			
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>			
	<pre><sip: any="" proper="" uri="">; index=1.1</sip:></pre>			
	200 OK (ANM):			
	No History-Info			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	181 Being forwarded ←	<b>←</b>	181 Being forwarded (ACM)	
	180 Ringing	<del>=</del>	180 Ringing (CPG)	
	200 OK INVITE	=	200 OK INVITE (ANM)	
	ACK →	<del>-</del>	ACK	
	1.0.1			
		Apply post test routine		

TP number	TP_305_064	Reference	[1], clause 7.2.1 [2], clauses 7.4.6.3.3,
			table, 7.4.6.3.3.1, table, 7.4.6.3.3.6
TSS reference	PSTN-SS/CDIV/		table, 7.4.0.3.3.0
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	3.2/5	
Test Purpose name	Mapping of 200 OK INVITE 200 OK INVITE Privacy hea	with encapsulated ANM Redire	ction Number Restriction into
Test Purpose	Restriction parameter is pre INVITE is sent. The Redirect	200 OK INVITE with encapsulatesent as an indication a call divection Number Restriction parametes in table 6.2.5-4	rsion occurred, a 200 OK eter value is mapped into the
ISUP Parameter values	ACM: Generic notification= Call diversion inform Redirection number ANM: Event indicator=Aler	call is diverting ation	
SIP Parameter values		own@unknown.invalid>; index= proper URI;cause=any?Privacy=	
Comments			
Message flows	SIP NNI INVITE 181 Being forwarded 180 Ringing 200 OK INVITE ACK	MGCF  ←  ←  ←  Apply post test routine	181 Being forwarded (ACM) 180 Ringing (CPG) 200 OK INVITE (ANM)

TP number	TP_305_065	Reference	[1], clause 7.3.1
			[2], clause 7.4.6.1
TSS reference	PSTN-SS/CDIV/		
Selection criteria	NOT PICS 6.3.2/5		
Test Purpose name	No mapping of Redire	ecting number, Original called	I number and Redirection Information
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number parameter, a Original called number and a Redirection Information parameter Redirecting reason indicator is set to <b>REAS_value</b> as indicated in table 6.2.5-42, an INVITE request is sent and no History-Info header is present. The call setup is not disrupted		
ISUP Parameter values	IAM: Redirecting nu Redirection Inf Redirecting Original called	formation g reason = <b>REAS_value</b>	
SIP Parameter values			
Comments			
Message flows	SIP-I INVITE (IAM)	MGCF → Apply post test	SIP NNI → INVITE routine

Table 6.2.5-42: Value of Redirecting reason received in Redirection Information

	REAS_value
VA_01	Unknown
VA_02	Unconditional
VA_03	User Busy
VA_04	Deflection immediate response
VA_05	Mobile subscriber not reachable

TP number	TP 305 066	Reference	[1], clause 7.2.1			
			[2], clauses 7.4.6.3.3,			
			table, 7.4.6.3.3.1,			
			table, 7.4.6.3.3.3			
TSS reference	PSTN-SS/CDIV/					
Selection criteria	NOT PICS 6.3.2/5					
Test Purpose name	No mapping of ACM Redirection					
Test Purpose	Ensure that on receipt of a 180					
	the Call diversion parameter the					
	table 6.2.5-43 is present as an indication a call diversion occurred, a 180 Ringing is sent					
	and no History-Info header is present. The call setup is not disrupted					
ISUP Parameter values	ACM: Generic notification=call is diverting					
	Redirection number					
	Call diversion information	n				
	Redirecting reason =	-REAS_value				
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	<b>→</b>	INVITE (IAM)			
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)			
		Apply post test routine				

Table 6.2.5-43: Value of Redirecting reason received in Call diversion information

CAUSE	Redirecting_Reason REAS_value
VA_01	unknown
VA_02	unconditional
VA_03	User Busy
VA_04	Deflection immediate response
VA_05	Mobile subscriber not reachable

## 6.2.6 Explicit Call Transfer (ECT)

TP number	TP_306_001	Reference	[1], clause 7.2.1
			[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2		
Test Purpose name	A session is retrieved when a	notification 'call transfer, active	' in a reINVITE with
	encapsulated FAC was receiv	ed and the session is on hold	
Test Purpose		Ensure that on receipt of an re	
		c notification indicator is set to	
	reINVITE is sent the a attribute	e in the SDP is set to 'sendrecy	r'
ISUP Parameter values	FAC: Generic notification=tra	nnsfer active	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE 1	→	INVITE (IAM)
	100 Trying	-	
	180 Ringing	·	180 Ringing (ACM)
	200 OK (INVITE)	·	200 OK (INVITE) (ANM)
	ACK -	<b>→</b>	ACK
	INVITE 2	<b>.</b>	INVITE 2 (CPG(hold))
	200 OK (INVITE)	<b>→</b>	200 OK (INVITE)
	ACK •		ACK
	INVITE 3 €	<b>.</b>	INVITE 3 (FAC(call transfer, active))
	200 OK (INVITE)	• •	
	ACK *		ACK
		Apply post test routine	

TP number	TP 306 002	Reference	[1], clause 7.2.1		
Tr Hamber	11 _300_002	Reference	[2], clause 7.4.8		
TSS reference	PSTN-SS/ECT/		[[2], clause 7.4.0		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/6			
Test Purpose name	A session is retrieved when a	<u> </u>	ting' in a reINVITE with		
	encapsulated FAC was received				
Test Purpose			reINVITE with encapsulated		
-	FAC message and the Gener				
	reINVITE is sent the a attribu	te in the SDP is set to 'sendre	ecv'		
ISUP Parameter values	FAC: Generic notification=tr	ansfer alerting			
SIP Parameter values	INVITE 2 SDP a=sendonly	-			
	INVITE 3 SDP a=sendrecv				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE 1	<b>→</b>	► INVITE (IAM)		
	100 Trying	<b>F</b>			
	180 Ringing	<del>(</del>	180 Ringing (ACM)		
	200 OK (INVITE)	<del>-</del>	200 OK (INVITE) (ANM)		
		<b>→</b>			
	INVITE 2	<b>+</b>	INVITE 2 (CPG(hold))		
	200 OK (INVITE)	<b>→</b>	200 OK (INVITE)		
	ACK ← ACK				
	INVITE 3	<b>+ *</b>	11441120		
	_	(FAC(call transfer, alerting)			
	,	=	200 OK (INVITE)		
	ACK	€	- ACK		
		Apply post test routine			

TP number	TP_306_003	Reference	[1], clause 7.2.1 [2], clause 7.4.8
TSS reference	PSTN-SS/ECT/		[[2], clause 1.4.0
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/6	
Test Purpose name	A session is retrieved when a		active' in a reINVITE with
Test i dipose name	encapsulated CPG was received		
Test Purpose			of a reINVITE with encapsulated
l soci a poss	CPG message and the Gener		
	reINVITE is sent the a attribute		
ISUP Parameter values	CPG: Generic notification=tra		
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE ←	<b>←</b>	INVITE (IAM)
	100 Trying →	<b>→</b>	100 Trying
	180 Ringing →	<b>→</b>	180 Ringing (ACM)
	200 OK (INVITE) →	<b>→</b>	200 OK (INVITE) (ANM)
	ACK ←	<b>←</b>	ACK
	INVITE 2	<b>←</b>	INVITE 2 (CPG(hold))
	200 OK (INVITE) →	<b>→</b>	200 OK (INVITÈ)
	ACK ←	<b>←</b>	ACK
	INVITE 3 ←	<b>←</b>	INVITE 3 (CPG(call transfer, active))
	200 OK (INVITE) →	<b>→</b>	, , , , , , , , , , , , , , , , , , , ,
	ACK ←	<b>←</b>	ACK
		Apply post test routi	ne

TP number	TP_306_004		Reference	[1], clause 7.2.1
TSS reference	PSTN-SS/ECT/			[2], clause 7.4.8
Selection criteria		20.000/0		
	PICS 6.3.1/1 AND PIC		. t:t: t: 1 11 t f	alontination and NVITE with
Test Purpose name				alerting in a reINVITE with
Took Duringson			d and the session is on	
Test Purpose				of a reINVITE with encapsulated
			notification indicator is n the SDP is set to 'ser	set to 'call transfer, alerting', a
IOUD Deservation and leave				narecv
ISUP Parameter values SIP Parameter values	CPG: Generic notifica		ster alerting	
SIP Parameter values	INVITE 2 SDP a=send			
Comments	INVITE 3 SDP a=send	recv		
	SIP NNISIP-I		MGCF	SIP-I
Message flows		_		
	INVITE	<del>(</del>	÷	INVITE (IAM)
	100 Trying	<b>→</b>	<b>→</b>	100 Trying
	180 Ringing	<b>→</b>	<b>→</b>	180 Ringing (ACM)
	200 OK (INVITE)	<b>→</b>	<b>→</b>	200 OK (INVITE) (ANM)
	ACK	<b>←</b>	<b>←</b>	ACK
	INVITE 2	<b>←</b>	+	INVITE 2 (CPG(hold))
	200 OK (INVITE)	<b>→</b>	<b>→</b>	200 OK (INVITE)
	ACK	<b>←</b>	<del>-</del>	ACK
	INVITE 3	<b>←</b>	<b>←</b>	INVITE 3 (CPG(call transfer, alerting))
	200 OK (INVITE)	<b>→</b>	<b>→</b>	· · · · · · · · · · · · · · · · · · ·
	ACK	<b>←</b>	<b>←</b>	ACK
			Apply post test rout	ine

TP number	TP_306_005	Reference	[1], clause 7.2.1		
			[2], clause 7.4.8		
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/0	6			
Test Purpose name	reINVITE with encapsulated FA mapping	AC with generic notification 'cal	I transfer, active' received, no		
Test Purpose	I-MGCF: Ensure that on receip Generic notification indicator is hold, no mapping occurs on the	coded as 'call transfer, active'			
ISUP Parameter values	FAC: Generic notification=trai	nsfer active			
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b> →	INVITE (IAM)		
	100 Trying	<b>←</b>			
	180 Ringing	<b>+ +</b>	180 Ringing (ACM)		
	200 OK (INVITE)	<b>+ +</b>	200 OK (INVITE) (ANM)		
	ACK	<b>→ →</b>	ACK		
		<b>←</b> →	INFO FAC(call transfer, active) 200 OK (INVITE)		
	Apply post test routine				

TP number	TP_306_006	Reference	[1], clause 7.2.1	
			[2], clause 7.4.8	
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/6	6		
Test Purpose name	FAC with generic notification 'ca	all transfer, alerting' received, r	no mapping	
Test Purpose	I-MGCF: Ensure that on receipt			
	Generic notification indicator is		g' and the session is not on	
	hold, no mapping occurs on the			
ISUP Parameter values	FAC: Generic notification=trar	nsfer alerting		
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	INVITE (IAM)	
	100 Trying	<b>+ +</b>	100 Trying	
	180 Ringing	<b>+ +</b>	180 Ringing (ACM)	
	200 OK (INVITE)	<b>← ←</b>	200 OK (INVITE) (ANM)	
	ACK		ACK	
		<b>←</b>	INFO	
			FAC(call transfer, alerting) 200 OK (INVITE)	
		Apply post test routine		

TP number	TP_306_007		Reference	[1], clause 7.2.1
				[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/6	3	
Test Purpose name	reINVITE with encapsu	ulated CF	G with generic notificati	on 'call transfer, active' received, no
	mapping		-	
Test Purpose	I-MGCF: Ensure that of	n receipt	of a reINVITE with enca	apsulated CPG message and the
	Generic notification inc	dicator is	coded as 'call transfer, a	active' and the session is not on
	hold, no mapping occu			
ISUP Parameter values	CPG: Generic notifica	tion=trar	sfer active	
SIP Parameter values				
Comments				
Message flows	SIP NNI		MGCF	SIP-I
	INVITE	<b>→</b>	<b>→</b>	IAM
	100 Trying	<b>←</b>	<b>←</b>	100 Trying
	180 Ringing	<b>←</b>	+	180 Ringing (ACM)
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE) (ANM)
			<b>←</b>	INFO (CPG(call transfer, active)
			<b>→</b>	200 OK (INVITE)
	Apply post test routine			

TP number	TP_306_008	F	Reference	[1], clause 7.2.1		
				[2], clause 7.4.8		
TSS reference	PSTN-SS/ECT/					
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/6				
Test Purpose name	·	sulated CP0	G with generic notification	tion 'call transfer, alerting' received,		
Test Purpose	I-MGCF: Ensure that Generic notification in	I-MGCF: Ensure that on receipt of a reINVITE with encapsulated CPG message and the Generic notification indicator is coded as 'call transfer, alerting' and the session is not on hold, no mapping occurs on the SIP side				
ISUP Parameter values	CPG: Generic notific					
SIP Parameter values			<u> </u>			
Comments						
Message flows	SIP NNI		MGCF	SIP-I		
	INVITE	<b>→</b>	<b>→</b>	INVITE (IAM)		
	100 Trying	<b>←</b>	<del>(</del>	100 Trying		
	180 Ringing	<b>←</b>	<b>←</b>	ACM (180 Ringing)		
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b> →	200 OK (INVITE) (ANM) ACK		
			<b>←</b> →	INFO (CPG(call transfer, alerting)) 200 OK (INVITE)		
			Apply post test rout	tine		

## 6.2.7 Call Waiting

TP number	TP_307_001	Reference	[1], clause 7.2.1 [2], clause 7.4.9	
TSS reference	PSTN-SS/CW/		[[2]; Gladde 7.4.0	
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/7		
Test Purpose name	Generic notification 'Ca interworked	all is a waiting call' in 180 Rin	nging with encapsulated ACM is not	
Test Purpose		criber free', a 180 Ringing is	sulated ACM and the called party status sent. The Generic notification 'Call is a	
ISUP Parameter values	ACM: BCI Called part	y Status=subscriber free, Ge	eneric notification=Call is a waiting call	
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>	← 100 Trying	
	180 Ringing	<b>←</b>	← 180 Ringing (ACM)	
	Apply post test routine			

TP number	TP_307_002	Reference	[1], clause 7.2.1			
	0000_		[2], clause 7.4.9			
TSS reference	PSTN-SS/CW/		[[-], c.c.acc			
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/7				
Test Purpose name	Generic notification 'Cal	is a waiting call' in CPG is	not interworked			
Test Purpose	Session Progress with e	An ACM called party status 'no indication' was received. Ensure that on receipt of a 183 Session Progress with encapsulated CPG and the Event indication is set to 'Alerting', a 180 Ringing is sent. The Generic notification 'Call is a waiting call' is not interworked.				
ISUP Parameter values	ACM: BCI Called party Status=no indication, oBCI=inband info available CPG: Event indication=ALERTING, Generic notification=Call is a waiting call					
SIP Parameter values	183 P-Early-Media:					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
_	INVITE	<b>→</b>	→ INVITE (IAM)			
	100 Trying	<b>←</b>	← 100 Trying			
			← 183 Session Progress (ACM (no indication))			
	180 Ringing	<b>←</b>	180 Ringing (CPG(ALERTING))			
	Apply post test routine					

## 6.2.8 Call Hold

TP number	TP_308_001	Reference	[1], clause	7.2.1
			[2], clause	7.4.10
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9			
Test Purpose name	Hold and Retrieve requested from the ISUP/SIP-I			
Test Purpose	Ensure that on receipt of an INVITE or UPDATE with encapsulated CPG message and the			
	Generic notification is set to 'Remote hold' in the confirmed dialogue, an INVITE or			
	UPDATE is sent. The media stream in the SDP is set to 'sendonly'.			
	Ensure that on receipt of a CPG message and the Generic notification is set to 'Remote			
	retrieval', an INVITE or UPDATE is sent. The media stream in the SDP is set to 'sendrecv'			
ISUP Parameter values	CPG: Generic notification			
	Remote hold			
	Remote retrieval			
SIP Parameter values	INVITE/UPDATE:SDP 1			
	a=sendo	nıy		
	SDP 2			
Comments	a=sendrecv			
Message flows	SIP NNI	MGCF		SIP-I
wessage nows		stablish a confirmed dialog	1110	SIF-I
	CASE A	stabilish a commilled dialog	jue	
	INVITE(SDP 1 = sendonly)	<b>←</b>	<b>←</b> INVI	TE (SDP 1 =
	INVITE(SDI 1 = Selidolliy)	•		lonly) (CPG(hold))
	200 OK (INVITE)	<b>→</b>		OK (INVITE)
	ACK	<b>É</b>	← ACK	
	ACK	•	ACK	
	CASE B			
	UPDATE(SDP 1 = sendonly)	<b>←</b>	← UPD	ATE (SDP 1 =
	Of DATE(ODI 1 = Seridonly)	•		lonly) (CPG(hold))
	200 OK (UPDATE)	<b>→</b>		OK (UPDATE)
	200 01( (61 27(12)	•	2 200	OR (OI DATE)
	CASE A			
	INVITE(SDP 2 = sendrecv)	<b>←</b>	← INVI	TE(SDP 2 =
		-		lrecv)
				(retrieve)
				( /
	200 OK (INVITE)	<b>→</b>	<b>→</b> 200	OK (INVITE)
	ACK '	<b>←</b>	← ACK	
	CASE B			
	UPDATE(SDP 2 = sendrecv)	<b>←</b>	← UPD	ATE (SDP 2 =
	,		send	lrecv)
			CPG	(retrieve)
	200 OK (UPDATE)	<b>→</b>	<b>→</b> 200	OK (UPDATE)
		Apply post test routine		

TP number	TP_308_002	Reference	[1], clause 7.2.1	
	2071100/1017/		[2], clause 7.4.10	
TSS reference	PSTN-SS/HOLD/	- 1-		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.			
Test Purpose name		from SIP in reINVITE request		
Test Purpose	Ensure that on receipt of an INVITE request in the confirmed dialogue and the media			
	stream in the SDP is set to 'sendonly', a INVITE with encapsulated CPG message is sent			
	the Generic notification indicator is set to 'remote hold'.			
	Ensure that on receipt of an INVITE request in the confirmed dialogue and the media			
	stream in the SDP is set to 'sendrecv', a CPG message is sent the Generic notification			
	indicator is set to 'remote reti	ieval'		
ISUP Parameter values		CPG: Generic notification		
	Remote hold			
	Remote retrieval			
SIP Parameter values	INVITE/UPDATE:SDP 1			
	a=sendonly			
	SDP 2			
	a=sendrecv			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
		Establish a confirmed dialogue		
	INVITE(sendonly)	<b>→</b>	INVITE(sendonly)	
			(CPG(hold))	
	()	← ←	200 OK (INVITE)	
	ACK	<b>→</b>	ACK	
	INVITE(sendrecv)	<b>→</b>	INVITE(sendrecv) (CPG(retrieve))	
	200 OK (INVITE)	<b>+ +</b>	200 OK (INVITE)	
		· → →	ACK	
	Apply post test routine			

TP number	TP_308_003	Reference	[1], clause 7.2.1		
Hamber	11 _308_003	Reference	[2], clause 7.4.10		
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/9			
Test Purpose name		from SIP in UPDATE request			
Test Purpose	Ensure that on receipt of an UPDATE request in the confirmed dialogue and the media				
10011 41 p000	stream in the SDP is set to 'sendonly', a UPDATE with encapsulated CPG message is sent				
	the Generic notification indicator is set to 'remote hold'.				
	Ensure that on receipt of an UPDATE request in the confirmed dialogue and the media				
	stream in the SDP is set to 'sendrecv', a CPG message is sent the Generic notification				
	indicator is set to 'remote retr	eval'			
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
	Remote retrieval				
SIP Parameter values	INVITE/UPDATE:SDP 1	INVITE/UPDATE:SDP 1			
	a=sendonly				
	SDP 2				
	a=sendi	a=sendrecv			
Comments			OID I		
Message flows	SIP NNI	MGCF	SIP-I		
		Establish a confirmed dialog			
	UPDATE(sendonly)	<b>→</b>	UPDATE(sendonly) (CPG(hold))		
	200 OK (UPDATE)	<b>+</b>	200 OK (UPDATE)		
	ACK -	<b>→</b>	ACK		
	UPDATE(sendrecv)	<b>→</b>	UPDATE(sendrecv) (CPG(retrieve))		
	200 OK (UPDATE)	<b>+</b>	200 OK (UPDÄTE)		
	ACK -	<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_308_004	Reference	[1], clause 7.2.1	
TSS reference	PSTN-SS/HOLD/		[2], clause 7.4.10	
Selection criteria				
	PICS 6.3.1/1 AND PICS 6.3.2/9			
Test Purpose name	Hold requested from both ends, session inactive sent			
Test Purpose	Ensure that on receipt of a INVITE with encapsulated CPG message and the Generic			
	notification indicator is set to 'remote hold' und the session was set on hold before, an			
IOUD D	INVITE or UPDATE request is sent and the media stream is set to 'inactive'			
ISUP Parameter values	CPG: Generic notification			
010 0	Remote hold			
SIP Parameter values	INVITE/UPDATE:SDP 1			
	a=sendor	nly		
	SDP 2			
	a=inactive			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Establish a confirmed dialogue			
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG(hold)	
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)	
	ACK	<b>→</b>	→ ACK	
	CASE A			
	INVITE(SDP 2 = inactive)	<b>←</b>	← INVITE(SDP 2 =	
		-	inactive)	
			(CPG(hold))	
	200 OK (INVITE)	<b>→</b>	→ 200 OK (INVITE)	
	ACK	<b>←</b>	← ACK	
	7.010	•	1 /10/1	
	CASE B			
	UPDATE(SDP 2 = inactive)	<b>←</b>	← UPDATE(SDP 2 =	
	, , , , , , , , , , , , , , , , , , , ,		inactive) (CPG(hold))	
	200 OK (UPDATE)	<b>→</b>	→ 200 OK (UPDATE)	
	Apply post test routine			

TP number	TP_308_005	Reference	[1], clause 7.2.1
			[2], clause 7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9	9	
Test Purpose name	Hold requested from both ends, session inactive received		
Test Purpose	The session is already set on hold. Ensure that on receipt of an INVITE request and the		
	media stream in the SDP is set to 'inactive', a INVITE with encapsulated CPG message is		
	sent and the Notification indicator is set to 'remote hold'		
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1		
	a=sendon	nly	
	SDP 2		
	a=inactive		
Comments			
Message flows	SIP NNI MGCF SIP-I		
		stablish a confirmed dialogue	e
	CASE A	_	6 UNIVERSE
	INVITE(SDP 1 = sendonly)	<b>←</b>	← INVITE(SDP 1 =
		_	sendonly) (CPG(hold))
	200 OK (INVITE)	<b>→</b> ←	→ 200 OK (INVITE)
	ACK	•	← ACK
	CASE B		
	UPDATE(SDP 1 = sendonly)	<b>←</b>	← UPDATE(SDP 1 =
	Of DATE(ODI 1 = Seridonly)	•	sendonly) (CPG(hold))
	200 OK (UPDATE)	<b>→</b>	→ 200 OK (UPDATE)
		•	2 200 011 (01 5/112)
	INVITE(SDP 2 = inactive)	<b>→</b>	→ INVITE(SDP 2 =
			inactive) (CPG(hold))
	200 OK (INVITE)	<b>←</b>	€ 200 OK (INVITE)
	ACK	<b>→</b>	→ ACK
	Apply post test routine		

TP number	TP_308_006	Reference	[1], clause 7.2.1 [2], clause 7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9					
Test Purpose name	First hold from SIP. Session	inactive, Retrieve requested fror	n SIP			
Test Purpose	receipt of an INVITE request	first from SIP as well as second and the media stream in the SE ed CPG message is sent and the	OP is set to 'recvonly', a INVITE			
ISUP Parameter values	CPG 1: Generic notificatio Remote hold CPG 2: Generic notificatio Remote retriev	n				
SIP Parameter values	INVITE/UPDATE:SDP 1 a=send SDP 2 a=inact SDP 3 a=recvo	ive				
Comments						
Message flows	SIP NNI	MGCF Establish a confirmed dialogu	SIP-I			
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ INVITE(SDP 1 = sendonly) (CPG 1 (hold))			
	200 OK (INVITE) ACK	<b>←</b> →	← 200 OK (INVITE) → ACK			
	CASE A INVITE(SDP 2 = inactive)	<b>←</b>	◆ INVITE(SDP 2 = inactive)			
	200 OK (INVITE) ACK	<b>→</b>	(CPG 1 (hold))  → 200 OK (INVITE)  ← ACK			
	CASE B UPDATE(SDP 2 = inactive)	<b>←</b>	← UPDATE(SDP 2 = inactive)			
	200 OK (UPDATE)	<b>→</b>	(CPG 1 (hold)) → 200 OK (UPDATE)			
	INVITE(SDP 3 = recvonly)	<b>→</b>	→ INVITE(SDP 3 = recvonly) (CPG 2 (retrieve))			
	200 OK (INVITE) ACK	<b>←</b> →	200 OK (INVITE) ACK			
		Apply post test routine				

TP number	TP_308_007	Reference	[11]	clause 7.2.1		
	000_00!			clause 7.4.10		
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2					
Test Purpose name	First hold from SIP. Session inactive, Retrieve requested from ISUP					
Test Purpose	The session is set on hold at f					
	receipt of an INVITE or UPDA					
	notification indicator is set to 'remote retrieval', an INVITE or UPDATE request is ser					
	the media stream in the SDP	l set to 'recvonly'				
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendo	nly				
	SDP 2					
	a=inactiv	/e				
	SDP 3					
0	a=recvoi	าเง				
Comments	CID NINI	MOC	\	CID I		
Message flows	SIP NNI	MGC		SIP-I		
	INVITE(SDP 1 = sendonly)	Establish a confirme  →	d dialogue →	INIVITE/CDD 4		
	INVITE(SDP T = Sendonly)	7	7	INVITE(SDP 1 =		
				sendonly) (CPG(hold))		
	200 OK (INVITE)	<b>←</b>	+	200 OK (INVITE)		
	ACK	<b>→</b>	<b>→</b>	ACK		
	AOR	,	•	AOR		
	CASE A					
	INVITE(SDP 2 = inactive)	<b>←</b>	<b>←</b>	INVITE(SDP 2 =		
	INVITE(ODI 2 = mactive)	•	•	inactive)CPG(hold)		
	200 OK (INVITE)	<b>→</b>	<b>→</b>	200 OK (INVITE)		
	ACK	<b>É</b>	÷	ACK		
	, tort	•	•	, tort		
	CASE B					
	UPDATE(SDP 2 = inactive)	<b>←</b>	<b>←</b>	UPDATE(SDP 2 =		
	(		-	inactive)		
				(CPG(hold))		
	200 OK (UPDATE)	<b>→</b>	<b>→</b>	(UPDATE)		
	, , , , , , , , , , , , , , , , , , ,			,		
	CASE C					
	INVITE(SDP 3 = recvonly)	<b>←</b>	<b>←</b>	INVITE(SDP 3 =		
				recvonly)		
				(CPG(retrieve))		
	200 OK (INVITE)	<b>→</b>	<b>→</b>	200 OK (INVITE)		
	ACK	<b>←</b>	<b>←</b>	ACK		
	CASE D					
	UPDATE(SDP 3 = recvonly)	<b>←</b>	<b>←</b>	UPDATE(SDP 3 =		
				recvonly)		
				(CPG(retrieve))		
	200 OK (UPDATE)	<b>→</b>	<b>→</b>	200 OK (UPDATE)		
	Apply post test routine					

TP number	TP_308_008	Reference	[1], clause 7.2.1			
TCC votovovos	PSTN-SS/HOLD/		[2], clause 7.4.10			
TSS reference	PICS 6.3.1/1 AND PICS 6.3.2/9					
Selection criteria	First hold from ISUP. Session inactive, Retrieve requested from SIP					
Test Purpose name	First noid from ISUP. Session	inactive, Retrieve requested fr	om SIP			
Test Purpose	The session is set on hold at fi receipt of an INVITE request a or UPDATE with encapsulated is set to 'remote retrieval'	nd the media stream in the SD	OP is set to 'recvonly', a INVITE			
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendor	nly				
	SDP 2	•				
	a=inactiv	e				
	SDP 3					
	a=recvon	ly				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	Establish a confirmed dialogue					
	CASE A					
	INVITE(SDP 1 = sendonly)	<b>←</b>	← INVITE(SDP 1 = sendonly) (CPG(hold))			
	200 OK (INVITE)	<b>→</b>	→ 200 OK (INVITE)			
	ACK	<b>←</b>	← ACK			
	CASE B					
	UPDATE(SDP 1 = sendonly)	<b>←</b>	<pre>UPDATE(SDP 1 =     sendonly) (CPG(hold))</pre>			
	200 OK (UPDATE)	<b>→</b>	→ 200 OK (UPDATE)			
	INVITE(SDP 2 = inactive)	<b>→</b>	→ INVITE(SDP 2 = inactive) (CPG(hold))			
	200 OK (INVITE) ACK	<del>←</del> →	← 200 OK (INVITE) → ACK			
	INVITE(SDP 3 = recvonly)	<b>→</b>	→ INVITE(SDP 3 = recvonly) (CPG(retrieve))			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)			
	ACK	<b>→</b>	→ ACK			
	1.2	Apply post test routine				
	1	Apply post test routine				

TP number	TP_308_009	Reference	[1], clause 7.2.1 [2], clause 7.4.10			
TSS reference	PSTN-SS/HOLD/		[[2], clause 7.4.10			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	9				
Test Purpose name	First hold from ISUP. Session inactive, Retrieve requested from ISUP					
Test Purpose	The session is set on hold at first from ISUP as well as second from SIP. Ensure that on					
10011 011 0000			licator is set to 'remote retrieval',			
			am in the SDP is set to 'recvonly'			
ISUP Parameter values	CPG: Generic notification Remote hold		,			
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendoi	nly				
	SDP 2					
	a=inactiv	е				
	SDP 3					
	a=recvon	ly				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
		stablish a confirmed dialo	gue			
	CASE A	_				
	INVITE(SDP 1 = sendonly)	<b>←</b>	← INVITE(SDP 1 = )			
			sendonly)			
		•	(CPG(hold))			
	200 OK (INVITE)	<b>→</b>	→ 200 OK (INVITE)			
	ACK	~	← ACK			
	CASE B					
		<b>←</b>	◆ UPDATE(SDP 1 = )			
	UPDATE(SDP 1 = sendonly)	•	UPDATE(SDP 1 = sendonly)			
			(CPG(hold))			
	200 OK (UPDATE)	<b>→</b>	→ 200 OK (UPDATE)			
	200 01( (01 2)(12)	•	2 200 OK (OF BATE)			
	INVITE(SDP 2 = inactive)	<b>→</b>	→ INVITE(SDP 2 =			
		-	inactive)			
			(CPG(hold))			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)			
	ACK '	<b>→</b>	→ ACK `			
	CASE C					
	INVITE(SDP 3 = recvonly)	<b>←</b>	← INVITE(SDP 3 =			
			recvonly)			
			(CPG(retrieve))			
	200 OK (INVITE)	<b>→</b>	→ 200 OK (INVITE)			
	ACK	<b>←</b>	← ACK			
	CASE D	_				
	UPDATE(SDP 3 = recvonly)	<b>←</b>	← UPDATE			
			(SDP 3 = recvonly)			
	200 OK (LIDDATE)	<b>→</b>	(CPG(retrieve))  → 200 OK (UPDATE)			
	200 OK (UPDATE)		,			
		Apply post test routine				

TP number	TP_308_010		Reference		[1], clause 7.3.1	
					[2], clause 7.4.10.2	
TSS reference		PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.1/1 AND PICS					
Test Purpose name					UPDATE is sent in early dialogue	
Test Purpose					eric notification indicator is set to	
					e UPDATE request indicating the	
					ng a 180 Ringing is established.	
IOUR	The media stream in the		is set to sendonly	indicati	ng the hold state	
ISUP Parameter values	CPG: Generic notification	on				
	Remote hold					
SIP Parameter values	UPDATE: SDP					
	a=sendon					
Comments	A CPG is received after	an AC			OID ANN	
Message flows	SIP-I		MGCF		SIP NNI	
	INVITE (IAM)	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE 100 Trying	
	183 Session Progress (ACM)	<b>←</b>	Timeout Ti/w2			
	UPDATE (SDP 1 = sendonly) (CPG(hold)) 200 OK (UPDATE)	<b>→</b>				
	180 Ringing (CPG– alerting)	<del>(</del>		<b>←</b>	180 Ringing	
				<b>→</b>	UPDATE(sendonly)	
				<b>←</b>	200 OK (UPDATE)	
			Apply post te	st routi	ne	

TP number	TP_308_011	Refer	ence	[1], clause 7.3.1 [2], clause 7.4.10.2			
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/9 AND	PICS 6.3.6/1				
Test Purpose name	CPG hold received before dialogue	ore an dialogu	e was established	UPDATE is sent in confirmed			
Test Purpose	Ensure that on receipt of notification indicator is sure.  INVITE or UPDATE receipt of the sure.	Ensure that on receipt of a UPDATE with encapsulated CPG message and the Generic notification indicator is set to 'remote hold' before an early dialogue is established, the INVITE or UPDATE request indicating the hold indication is sent after the confirmed dialogue by receiving a 200 OK (INVITE) is established. The media stream in the SDP is					
ISUP Parameter values	CPG: Generic notificat Remote hold						
SIP Parameter values	INVITE/UPDATE:SDP a=	sendonly					
Comments							
Message flows	ISIP-I INVITE (IAM) 100 Trying UPDATE (CPG(hold)) 200 OK (UPDATE)	→ ← → ←	MGCF → ←	SIP NNI INVITE 100 Trying			
	200 OK (INVITE) (CON) ACK CASE A	<b>←</b> →	+	200 OK (INVITE)			
	CASE B		→ ← → ←	INVITE(sendonly) 200 OK (INVITE) ACK  UPDATE(sendonly) 200 OK (UPDATE)			
		Арр	ly post test routi	,			

TP number	TP_308_012	Reference	[1], clause 7.3.1
			[2], clause 7.4.10.2
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/9 AND PICS 6.3.6	6/1
Test Purpose name	Update with encapsulate UPDATE is sent on the		iter several early dialogues was established alogue
Test Purpose		Generic notification indic	at on receipt of a INFO with encapsulated eator is set to 'remote hold', an UPDATE alogue
ISUP Parameter values	CPG: Generic notificati Remote hold	on	
SIP Parameter values	180 1: To: <appropriate 180="" 1:="" <appropri<="" <appropriate="" th="" to:="" update:=""><th>URI&gt;; tag=2</th><th></th></appropriate>	URI>; tag=2	
Comments		II-ID and the From tag a	re equal. The different dialogues can be
Message flows	SIP-I INVITE (IAM) 180 Ringing 1 (ACM – free)  UPDATE (sendonly) CPG(hold) 200 OK (UPDATE)	MGCF → ←	SIP NNI  → INVITE  ← 180 Ringing 1  ← 180 Ringing 2  → UPDATE 2 (sendonly)  ← 200 OK (UPDATE)
		Apply post te	st routine

TP number	TP_308_013	Reference	[1], clause 7.3.1
			[2], clause 7.4.10.2
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2		
Test Purpose name			r SDP offer answer exchange
Test Purpose			session was set on hold indicating
	a new SDP, an UPDATE requ	est is sent and the media s	stream is set to 'sendonly' to
	refresh the previous held state	)	
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE: SDP1		
	UPDATE 1: SDP a=sendon	У	
	UPDATE 2: SDP 2		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE(SDP1) (IAM) →	<b>→</b>	INVITE(SDP1)
	180 Ringing ← (ACM – free)	<b>←</b>	180 Ringing
	UPDATE 1 (sendonly) → CPG(hold)	<b>→</b>	UPDATE 1 (sendonly)
	200 OK (UPDATE) ←	<b>←</b>	200 OK (UPDATE)
	UPDATE 2 (SDP2) ← CPG(hold)	<b>←</b>	UPDATE 2 (SDP2)
	200 OK (UPDATE) →	<b>→</b>	200 OK (UPDATE)
	UPDATE 1 (sendonly) → CPG(retrieve)	<b>→</b>	UPDATE 1 (sendonly)
	200 OK (UPDATE)	<b>←</b>	200 OK (UPDATE)
		Apply post test routing	10

TP number	TP_308_014		Reference	[1], clause 7.3.1			
	11 _000_011			[2], clause 7.4.10.2			
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/9	AND PICS 6.3.6/1				
Test Purpose name	An UPDATE (hold) is ser	nt after	an additional early dialo	ogue is established			
Test Purpose				e that on receipt of a 180 Ringing			
			an UPDATE request is s	sent on this dialogue and the media			
	stream is set to 'sendonly	y'					
ISUP Parameter values	CPG: Generic notification	on					
	Remote hold						
SIP Parameter values	180 1: To: <appropriate< th=""><th></th><th></th><th></th></appropriate<>						
	180 1: To: <appropriate< th=""><th>URI&gt;;</th><th>tag=2</th><th></th></appropriate<>	URI>;	tag=2				
	l						
	UPDATE 2: To: <appro< th=""><th>priate</th><th>URI&gt;; tag=2</th><th></th></appro<>	priate	URI>; tag=2				
Comments							
Message flows	SIP-I	_	MGCF	SIP NNI			
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE			
	180 Ringing 1	<b>←</b>	+	180 Ringing 1			
	(ACM – free)						
	LIDDATE ODG# LIN	_	•	LIDDATE ( ( ) L )			
	UPDATE CPG(hold)	<b>→</b>	<b>→</b>	UPDATE 1 (sendonly)			
	200 OK (UPDATE)	<b>←</b>	+	200 OK (UPDATE)			
			<b>←</b>	180 Ringing 2			
			•	100 Kiligilig 2			
			<b>→</b>	UPDATE 2 (sendonly)			
			<b>←</b>	200 OK (UPDATE)			
			Apply post test routi				

TP number	TP_308_015		Reference	[1], clause 7.3.1
				[2], clause 7.4.10.2
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 6.3.1/1 AND PICS			
Test Purpose name				00 OK INVITE was received when a
	CPG (hold) was receive			
Test Purpose	An UPDATE with encar	osulated	I CPG indicating Hold w	as received in the early dialogue.
				ing the confirmed dialogue, an
		uest is	sent and the media stre	eam is set to 'sendonly' indicating the
	held state			
ISUP Parameter values	CPG: Generic notificat	ion		
	Remote hold			
SIP Parameter values	INVITE/UPDATE 2: SI	OP		
		a=sen	donly	
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE
	180 Ringing	←	<b>+</b>	180 Ringing
	(ACM – free)			
	UPDATE (CPG(hold))	<b>→</b>	<b>→</b>	UPDATE(sendonly)
	200 OK (UPDATE)	<b>←</b>	+	` ,
	200 011 (01 27112)			200 011 (01 27112)
	200 OK (INVITE)	<b>←</b>	<b>←</b>	200 OK (INVITE)
	(ANM)			
	ACK	<b>→</b>	<b>→</b>	ACK
	CASE A		<b>→</b>	INVITE 2 (sendonly)
	· ·		<b>+</b>	` ,
			<b>→</b>	,
	CASE B		<b>→</b>	UPDATE 2 (sendonly)
	CAGE B		<del>7</del>	` ,
			-	` ,
	Apply post test routine			

TP number	TP_308_016	Reference		[1], clause 7.3.1	
				[2], clause 7.4.10	
TSS reference	PSTN-SS/HOLD/	•			
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/9 AND PICS 6.3.	6/1		
Test Purpose name	'sendonly' and 'sendrecy	v' received from the tern	ninating SIP	user in the early dialogue	
Test Purpose	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream is set to 'sendonly' a UPDATE(sendonly) with encapsulated CPG message is sent and the Generic notification indicator is set to 'remote hold'.				
	is already set on hold th	e media stream is set to	'sendrecv' i	ialogue and the media stream in the received UPDATE, a is set to 'remote retrieval'	
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF		SIP NNI	
	INVITE IAM	<b>→</b>		VITE 10 Trying	
	180 Ringing (ACM – free)	<b>←</b>	<b>←</b> 18	0 Ringing	
	UPDATE(sendonly) (CPG(hold))	<b>←</b>	<b>←</b> UF	PDATE(sendonly)	
	200 OK (UPDATE)	<b>→</b>	<b>→</b> 20	0 OK (UPDATE)	
	UPDATE(sendrecv) CPG(retrieve)	<b>←</b>	<b>←</b> UF	PDATE(sendrecv)	
	200 OK (UPDATE)	<b>→</b>	<b>→</b> 20	0 OK (UPDATE)	
	l ·	Apply post te	st routine		

TP number	TP_308_017	Reference	[1], clause 7.2.1
			[2], clause 7.4.2
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9	9 AND PICS 6.3.6/1	
Test Purpose name	'sendonly' and 'sendrecv' recei	ved from the originating SIP us	er in the early dialogue
Test Purpose	Ensure that on receipt of an UF	PDATE request in the early dia	logue and the media stream
	is set to 'sendonly', a UPDATE	with encapsulated CPG mess	age is sent and the Generic
	notification indicator is set to 're		
	Ensure that on receipt of an UF		
	is set to 'sendonly' the session		message is sent and the
	Generic notification indicator is	set to 'remote retrieval'	
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)
	UPDATE(sendonly) →	<b>→</b>	UPDATE (sendonly) (CPG(hold))
	200 OK (UPDATE)	<b>←</b>	200 OK (UPDATE)
	UPDATE(sendrecv) →	<b>→</b>	UPDATE(sendrecv) (CPG(retrieve))
	200 OK (UPDATE)		200 OK (UPDATE)
		Apply post test routine	

TP number	TP_308_018	Reference	[1], clause 7.3.1
			[2], clause 7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9	9 AND PICS 6.3.6/1	
Test Purpose name	'hold' and 'retrieve' received fro		
Test Purpose			ic notification indicator is set to
		jue, an UPDATE request is	s sent and the mediastream is set
	to 'sendonly'.		
			ic notification indicator is set to
			an UPDATE request is sent and
	the media stream is set to 'sen	drecv'	
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →		INVITE
	100 Trying ←	<b>←</b>	100 Trying
	180 Ringing ← (ACM – free)	<b>←</b>	180 Ringing
	(**************************************		
	UPDATE(sendonly) → CPG(hold)	<b>→</b>	UPDATE(sendonly)
	200 OK (UPDATE)	<b>←</b>	200 OK (UPDATE)
	UPDATE(sendrecv) → (CPG(retrieve))	<b>→</b>	UPDATE(sendrecv)
	200 OK (UPDATE) ←	<b>←</b>	200 OK (UPDATE)
	,	Apply post test routing	,

### 6.2.9 Call Completion on busy subscriber

TP number	TP_309_001	Reference	[1], clause 7.2.1		
			[2], clause 7.4.11		
TSS reference	PSTN-SS/CCBS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	10			
Test Purpose name	The diagnostic field is not inter	worked			
Test Purpose	Ensure that on receipt of an RI to 'CCBS possible', a final SIP				
	facility is present	response 400 busy riere is se	nt no indication of CODO		
ISUP Parameter values	<b>REL:</b> Cause indicator CCBS	possible indicator=CCBS poss	ible		
SIP Parameter values					
Comments	The CCBS possible indicator is	s contained in the diagnostic fie	eld of the Cause indicator		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
	486 Busy Here				
	ACK →	<b>→</b>	(REL(17)) ACK (RLC)		

### 6.2.10 Completion of Calls on No Reply (CCNR)

TP number	TP_310_001	Reference	[1], clause 7.2.1			
			[2], clause 7.4.12			
TSS reference	PSTN-SS/CCNR/					
Selection criteria	PICS 6.3.1/1 AND PICS 6	5.3.2/11				
Test Purpose name	CCNR possible indication	received in an ACM, dis	carded			
Test Purpose		Ensure that on receipt of an ACM and a CCNR possible indicator is present the value set to 'CCNR possible', a 180 Ringing is sent without indication of CCNR facility				
ISUP Parameter values	ACM: BCI called party st possible	atus indicator=subscribe	free, CCNR Possible Indicator=CCNR			
SIP Parameter values	·					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<b>→</b>	→ INVITE (IAM)			
	100 Trying	<b>←</b>				
	180 Ringing	<b>←</b>	180 Ringing (ACM - free)			
	Apply post test routine					

TP number	TP 310 002	Refer	ence	[1], clause 7.2.1			
				[2], clause 7.4.12			
TSS reference	PSTN-SS/CCNR/	•					
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/11					
Test Purpose name	CCNR possible indica	ition received in	an CPG, discarde	d			
Test Purpose		Ensure that on receipt of an CPG and a CCNR possible indicator is present the value set to 'CCNR possible', a 180 Ringing is sent without indication of CCNR facility					
ISUP Parameter values	ACM: BCI called part	ACM: BCI called party status indicator=no indication, oBCI=inband info available CPG: Event indicator= ALERTING, CCNR Possible Indicator=CCNR possible					
SIP Parameter values				·			
Comments							
Message flows	SIP NNI		MGCF	SIP-I			
	INVITE	<b>→</b>		→ INVITE (IAM)			
	100 Trying	<b>←</b>		← 100 Trying			
				← 183 Session Progress			
				(ACM(no indication))			
	180 Ringing	<b>←</b>		<ul><li>180 Ringing (CPG)</li></ul>			
		App	ly post test routi	ne			

# 6.2.11 Terminal Portability (TP)

TP number	TP_311_001	Reference	[1], clause 7.2.1		
			[2], clause 7.4.13		
TSS reference	PSTN-SS/TP/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	12			
Test Purpose name	SUS user initiated is mapped i	nto an reINVITE SDP sendonly	У		
Test Purpose	Ensure that on receipt of an SI				
		INVITE is sent and the media	stream indicated in the SDP is		
	set to 'sendonly'				
ISUP Parameter values	SUS: Suspend/Resume				
	ISDN subscriber init	tiated			
SIP Parameter values	INVITE: SDP				
	a=sendonly				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<del>=</del>	INVITE (IAM)		
	100 Trying ←				
	180 Ringing ←	·	180 Ringing		
			(ACM free)		
	200 OK (INVITE)	• •	200 OK (INVITE) (ANM)		
	ACK +		ACK		
	INVITE(sendonly) ←	·	INVITE(sendonly)		
	(SUS(user))				
	200 OK (INVITE) →		()		
	ACK ←	·	ACK		
		Apply post test routine			

TP number	TP_311_002		Reference	[1], clause 7.3.1		
				[2], clause 7.4.13		
TSS reference	PSTN-SS/TP/					
Selection criteria	PICS 6.3.1/1 AND PI					
Test Purpose name			to an reINVITE SDP se			
Test Purpose				set to 'ISDN subscriber initiated'		
				ge and the Suspend/Resume		
				is sent and the media stream		
	indicated in the SDP		endrecv'			
ISUP Parameter values	RES: Suspend/Resu					
	ISDN subs	criber initia	ated			
SIP Parameter values	INVITE: SDP					
	a=send	drecv				
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
			+	100 Trying		
	180 Ringing	<del>(</del>	+	180 Ringing		
	(ACIVI – Tree)	(ACM – free)				
	200 OK (INVITE)	<b>←</b>	<b>+</b>	200 OK (INVITE)		
	(ANM)			, ,		
	ÀCK	<b>→</b>	<b>→</b>	ACK		
	INI\/ITE/condonly\	<b>←</b>	<b>←</b>	INIVITE (condent)		
	INVITE(sendonly)	•	•	INVITE(sendonly) (SUS(user))		
	200 OK (INVITE)	<b>→</b>		200 OK (INVITE)		
	ACK	<b>←</b>	<b>←</b>	ACK		
	INVITE(sendrecv)	<b>←</b>	<b>←</b>	INVITE(sendrecv) (RES(user))		
	200 OK (INVITE)	<b>→</b>	<b>→</b>	200 OK (INVITE)		
	ACK	<b>+</b>	<b>É</b>	ACK		
	, tort	•	=	_		
		Apply post test routine				

# 6.2.12 Conference calling (CONF) / Three-Party Service (3PTY)

TP number	TP_312_001	Reference	[1], clause 7.2.1			
			[2], clause 7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/13				
Test Purpose name	I-MGCF: Session not on hold	, notification 'conference estab	olished'			
Test Purpose	A session at the I-MGCF is in	the confirmed state and not s	et on hold. Ensure that on			
	receipt of a reINVITE with end	capsulated CPG message the	Generic notification indicator is			
	set to 'Conference establishe	d' no reINVITE is sent				
ISUP Parameter values	CPG: Generic notification					
	Conference est	ablished				
SIP Parameter values						
Comments	This state is applicable for CC	ONF and 3PTY				
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	→	INVITE (IAM)			
	100 Trying	<b>-</b>				
	180 Ringing	←	180 Ringing			
			(ACM)- free			
	200 OK (INVITE)	<b>+</b>	200 OK (INVITE)			
	200 31 (111112)	•	(ANM)			
	ACK -	•	→ ACK			
	7.OK	ACR 7 ACR				
		<b>←</b>	INFO			
	(CPG)					
	→ 200 OK (INFO)					
	Apply post test routine					

TP number	TP_312_002	Refe	rence	[1] cla	use 7.3.1	
Transcr	11 _512_002	T.C.C.	CIICC		use 7.4.14	
TSS reference	PSTN-SS/CONF/			[[2], 014	430 7.4.14	
Selection criteria	PICS 6.3.1/1 AND PI	CS 6 3 2/13				
Test Purpose name	O-MGCF: Session no		otion 'conforces	ootobliobod'		
-					al Cinavina that are	
Test Purpose	A session at the O-M					
				tne Generic n	notification indicator is	
10110	set to 'Conference es		NVITE IS SENT			
ISUP Parameter values	CPG: Generic notific					
	Confer	rence establishe	<u>d</u>			
SIP Parameter values						
Comments	This state is applicab	le for CONF and	J 3PTY			
Message flows	SIP-I		MGCF		SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
		← 100 Trying				
	180 Ringing	<b>←</b>	<b>←</b>	180 Ringing		
	(ACM)	- 100199				
	· - /					
	200 OK (INVITE)	<b>←</b>	<b>+</b>	200 OK (IN\	/ITE)	
	ANM	-	-	200 011 (1111	··· = )	
	ACK	<b>→</b>	<b>→</b>	ACK		
	AOR	AUN 7 7 AUN				
	INICO (CDC)					
	INFO (CPG) → 200 OK (INFO) ←					
	200 OK (INFO)	~				
		A		!		
1	Apply post test routine					

TP number	TP_312_003	Reference	[1], clause 7.2.1 [2], clause 7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13					
Test Purpose name	I-MGCF: Session on hold, notification 'conference established'					
Test Purpose	A session at the I-MGCF is in the confirmed state and set on hold. Ensure that on receipt of					
	an INVITE with encapsulated CPG message the Generic notification indicator is set to					
		'Conference established' a reINVITE request is sent the 'a' attribute in the SDP is set to				
	'sendrecy'	noonsulated CDC massa	as the Conorio potification indicator			
	On receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference established' <u>no</u> reINVITE request is sent the 'a' attribute in the SDP is					
	set to 'sendrecv' will be sent		it is sent the a attribute in the ODI is			
ISUP Parameter values	CPG 1: Generic notification					
	Remote hold					
	CPG 2: Generic notification	n				
	Conference es	stablished				
SIP Parameter values	INVITE 1: SDP					
	a=sendonly					
	INVITE 2: SDP a=sendrecv					
Comments	This state is applicable for 3	DTV				
Message flows	SIP NNI	MGCF	SIP-I			
message news	INVITE	→	→ INVITE (IAM)			
	100 Trying	<del>(</del>	2			
	180 Ringing	<b>←</b>	← 180 Ringing			
			(ACM - free)			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)			
	1016	•	(ANM)			
	ACK	<b>→</b>	→ ACK			
	INVITE 1 (sendonly)	<b>←</b>	← INVITE 1 (sendonly)			
	(55.1.55.1.7)		(CPG 1)			
	200 OK INVITE (recvonly)	<b>→</b>	→ 200 OK INVITE (recvonly)			
	ACK	<b>←</b>				
	CASE A					
	INVITE 2 (sendrecv)	<b>←</b>	← INVITE 2 (sendrecv)			
	000 01/ 101/ 175 /	•	(CPG 2)			
	200 OK INVITE (sendrecv)	<b>→</b>	→ 200 OK INVITE (sendrecv)			
	ACK ← ACK					
	CASE B					
	← INFO(CPG 2)					
			→ 200 OK INFÓ			
	CASE C					
			← INFO(CPG 2)			
			→ 200 OK INFO			
	INIVITE 2 (condragy)	4	4 INIVITE 2 (condragy)			
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)	<b>←</b> →	<ul><li>← INVITE 2 (sendrecv, )</li><li>→ 200 OK INVITE (sendrecv)</li></ul>			
	ACK	<del></del>	ACK			
	, (5)(	Apply post test rou				
		7.pp., poor toot 100				

TP number	TP_312_004	Reference	[1], clause 7.3.1 [2], clause 7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13					
Test Purpose name	O-MGCF: Session on hold, no					
Test Purpose	A session at the O-MGCF is in the confirmed state and set on hold. Ensure that on receipt of a INVITE with encapsulated CPG message the Generic notification indicator is set to 'Conference established' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv'  On receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference established' <u>no</u> reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv' will be sent (CASE B)					
ISUP Parameter values	CPG 1: Generic notification Remote hold CPG 2: Generic notification Conference esta					
SIP Parameter values	INVITE 1: SDP					
	a=sendonly INVITE 2: SDP a=sendrecv					
Comments	This state is applicable for 3P7	ΓΥ				
Message flows	SIP-I INVITE (IAM)  180 Ringing (ACM – free)  200 OK (INVITE)(ANM) ACK  INVITE 1 (sendonly)(CPG 1) 200 OK INVITE (recvonly) ACK  CASE A INVITE 2 (sendrecv)(CPG 2) 200 OK INVITE (sendrecv) ACK  CASE B INFO (CPG 2) 200 OK INFO  CASE C INFO (CPG 2) 200 OK INFO  INVITE 2 (sendrecv)	MGCF  + + + + + + + + + + + + + + + + + + +	200 OK INVITE (sendrecv) ACK  INVITE 2 (sendrecv)			
	200 OK INVITE (sendrecv) ACK	← ← ← → → Apply post test rout	200 OK INVITE (sendrecv) ACK ine			

TP number	TP_312_005	Reference	[1], clause 7.2.1				
	[2], clause 7.4.14						
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/						
Test Purpose name	I-MGCF: Session not on hold,	notification 'Conference discor	nnected'				
Test Purpose	A session at the I-MGCF is in t	he confirmed state not set on	hold and a conference is				
	established. Ensure that on red	ceipt of an INFO with encapsul	lated CPG message the				
	Generic notification indicator is	set to 'Conference disconnec	ted' no reINVITE is sent				
ISUP Parameter values	CPG 1: Generic notification						
	Conference esta	blished					
	CPG 2: Generic notification						
	Conference disc	onnected					
SIP Parameter values							
Comments	This state is applicable for COI	NF and 3PTY					
Message flows	SIP NNI	MGCF	SIP-I				
	INVITE -	<b>→</b>	INVITE (IAM)				
	100 Trying ←	•					
	180 Ringing ←	<b>←</b>	180 Ringing				
	5 5		(ACM - free)				
	200 OK (INVITE) ←	<b>←</b>	200 OK (INVITE)				
			(ANM)				
	ACK →	<b>→</b>	ACK				
		<b>←</b>	INFO 1 (CPG 1)				
		<b>→</b>	200 OK (INFO)				
	← INFO 2 (CPG 2)						
	→ 200 OK (INFO)						
		Apply post test routine	()				

TP number	TP_312_006	Reference	[1], clause 7.3.1
			[2], clause 7.4.14
TSS reference	PSTN-SS/CONF/		IE 4
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/13	
Test Purpose name	O-MGCF: Session not on ho	ld, notification 'Conference	disconnected'
Test Purpose			set on hold and a conference is
		•	apsulated CPG message the
			onnected' no reINVITE is sent
ISUP Parameter values	CPG 1: Generic notification		
	Conference es		
	CPG 2: Generic notification		
OID D	Conference di	sconnected	
SIP Parameter values	T	ONE LODEN	
Comments	This state is applicable for C		015 1111
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	400 D: :	<b>+</b>	100 Trying
	180 Ringing ←	<b>←</b>	180 Ringing
	(ACM- free)		
	200 OK (INVITE)	<b>←</b>	200 OK (INI)/ITE)
	200 OK (INVITE)  (ANM)	~	200 OK (INVITE)
	ACK →	<b>→</b>	ACK
	INFO (CPG 1)	7	ACK
	200 OK (INFO) ←		
	INFO (CPG 2) →		
	200 OK		
	200 010	Apply post test routi	ne
	1	Apply post tost routi	110

TP number	TP_312_007	Reference	[1], clause 7.2.1			
TSS reference	PSTN-SS/CONF/		[2], clause 7.4.14			
TSS reference Selection criteria						
Test Purpose name	PICS 6.3.1/1 AND PICS 6.3.2/13  I-MGCF: Session on hold, notification 'Conference disconnected'					
Test Purpose	A session at the I-MGCF is in the confirmed state set on hold and a conference is					
	A session at the I-MGCF is in the confirmed state set on hold and a conference is established. Ensure that on receipt of an INVITE with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendonly'  On receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' a <u>no</u> reINVITE request is sent the 'a' attribute in the					
	SDP is set to 'sendonly' will b					
ISUP Parameter values	CPG 1: Generic notification					
	Remote hold CPG 2: Generic notification Conference es CPG 3: Generic notification	tablished				
	Conference dis	sconnected				
SIP Parameter values	INVITE 1: SDP					
	a=sendonly INVITE 2: SDP a=sendrecv INVITE 3: SDP					
	a=sendonly					
Comments	This state is applicable for 3F					
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<del>}</del>	→ INVITE (IAM)			
	100 Trying 180 Ringing	<del>(</del>	← 180 Ringing (ACM – free)			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) (ANM)			
	ACK	<b>→</b>	→ ACK			
	INVITE 1 (sendonly)	<b>←</b>	<ul><li>INVITE 1 (sendonly) (CPG 1)</li></ul>			
	200 OK INVITE (recvonly)	<b>→</b>	→ 200 OK INVITE (recvonly)			
	ACK	<b>←</b>	← ACK			
	CASE A					
	INVITE 2 (sendrecv)	<b>←</b>	← INVITE 2 (sendrecv) (CPG 2)			
	200 OK INVITE (sendrecv)	<b>→</b>	→ 200 OK INVITE (sendrecv)			
	ACK	<b>←</b>	← ACK			
	INVITE 3 (sendonly)	<b>←</b>	← INVITE 3 (sendonly) (CPG 3)			
	200 OK INVITE (recvonly)	<b>→</b>	→ 200 OK INVITE (recvonly)			
	ACK CASE B	<b>←</b>	← ACK ← INFO (CPG 2)			
			→ 200 OK INFO			
			<ul><li>← INFO (CPG 3)</li><li>→ 200 OK INFO</li></ul>			
	CASE C		<ul><li>← INFO (CPG 2)</li><li>→ 200 OK INFO</li></ul>			
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)	<b>←</b> →	<ul><li>← INVITE 2 (sendrecv)</li><li>→ 200 OK INVITE</li></ul>			
	ACK	<b>←</b>	(sendrecv) <b>←</b> ACK			

INVITE 3 (sendonly) 200 OK INVITE (recvonly) ACK	<b>←</b> → <b>←</b>	+ + + + + +	INFO (CPG 3) 200 OK INFO INVITE 3 (sendonly) 200 OK INVITE (recvonly) ACK	
Apply post test routine				

TP number	TP_312_008	Ref	ference	[1], clause 7.3.1 [2], clause 7.4.14			
TSS reference	PSTN-SS/CONF/						
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/13					
Test Purpose name	O-MGCF: Session on	•					
Test Purpose	A session at the O-MGCF is in the confirmed state set on hold and a conference is established. Ensure that on receipt of an INVITE with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendonly'  On receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' a <u>no</u> reINVITE request is sent the 'a' attribute in the SDP is set to 'sendonly' will be sent						
ISUP Parameter values	CPG 1: Generic not Remote CPG 2: Generic not Confere CPG 3: Generic not	hold ification nce establish	ned				
			ected				
SIP Parameter values	Conference disconnected  INVITE 1: SDP						
Comments	This state is applicable						
Message flows	SIP-I		MGCF	SIP NNI			
	INVITE (IAM)  180 Ringing (ACM - free)	→ ←	onference is establ → ← ←	INVITE 100 Trying 180 Ringing			
	200 OK (INVITE) (ANM) ACK	<b>←</b> →	<b>←</b>	200 OK (INVITE) ACK			
	INVITE 1 (sendonly) (CPG 1)	<b>→</b>	<b>→</b>	INVITE 1 (sendonly)			
	200 OK INVITE (recvonly)	<b>←</b>	+	200 OK INVITE (recvonly)			
	ACK	<b>→</b>	<b>→</b>	ACK			
	CASE A						
	INVITE 2 (sendrecv) (CPG 2)	<b>→</b>	<b>→</b>	INVITE 2 (sendrecv)			
	200 OK INVITE (sendrecv) ACK	<b>→</b>	<b>←</b>	200 OK INVITE (sendrecv)  ACK			
	INVITE 3 (sendonly)	→	→	INVITE 3 (sendonly)			
	CPG 3 200 OK (INVITE)	÷	<b>+</b>	200 OK INVITE (recvonly)			
	(recvonly) ACK	` →	` →	ACK			

	CASE B NFO (CPG 2) 200 OK INFO	<b>→</b>		
	NFO (CPG 3) 200 OK INFO	<b>→</b>		
	CASE C			
2   II   2   (:	NFO (CPG 2) 200 OK INFO NVITE 2 (sendrecv) 200 OK INVITE sendrecv)	→ ← →	→ ←	()
l li	NFO (CPG 3) 200 OK INFO	<b>→</b>		
	NVITE 3 (sendonly) 200 OK INVITE recvonly) ACK	<b>→</b> ←	→ ←	- (
		Α	pply post test rout	

TP number	TP_312_009	Reference	[1], clause 7.2.1			
Ti Tidiliboi	11 _512_003	Troit of the control	[2], clause 7.4.14			
TSS reference	PSTN-SS/CONF/		16 4:			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.					
Test Purpose name		l' and 'reattached' interworked				
Test Purpose	A conference at the I-MFCF is established. Ensure that on receipt of an INVITE with encapsulated CPG message the Generic notification indicator is set to 'isolated' a reINVITE request is sent the 'an attribute in the SDP is set to 'sendonly'. Subsequently on receipt of a CPG message the Generic notification indicator is set to 'reattached' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv'					
ISUP Parameter values	CPG 1: Generic notificatio Conference es CPG 2: Generic notificatio isolated CPG 3: Generic notificatio reattached	stablished n				
SIP Parameter values	INVITE 1: SDP a=sendonly INVITE 2: SDP					
Comments	a=sendrecv	ONE				
Comments Manager flavo	This state is applicable for C		oin i			
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE 100 Trying	<b>→</b>	→ INVITE (IAM)			
	180 Ringing	<b>←</b>	← 180 Ringing (ACM)			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE) (ANM)			
	ACK	<b>→</b>	→ ACK			
	CASE A		<ul><li>← INFO (CPG 1)</li><li>→ 200 OK (INFO)</li></ul>			
	INVITE 1 (sendonly)	<b>←</b>	← INVITE 1 (sendonly) CPG 2			
	200 OK INVITE (recvonly)	<b>→</b>	→ 200 OK INVITE (recvonly)			
	ACK	<b>←</b>	← ACK			
	INVITE 2 (sendrecv)	<b>←</b>	← INVITE 2 (sendrecv) (CPG 3)			
	200 OK INVITE (sendrecv)	<b>→</b>	→ 200 OK INVITE (sendrecv)			
	ACK CASE B	<b>←</b>	← ACK			
			<ul><li>← INFO CPG 2</li><li>→ 200 OK INFO</li></ul>			
			→ 200 OK INFO  INFO (CPG 3)			
			→ 200 OK INFO			
	CASE C		<ul><li>✓ INFO (sendonly) CPG 2</li></ul>			
			→ 200 OK INFO			
	INVITE 1 (sendonly)	<b>←</b>	<ul><li>INVITE 1 (sendonly)</li></ul>			
	200 OK INVITE (recvonly)	<b>→</b>	→ 200 OK INVITE (recvonly)			
	ACK	<b>←</b>	← ACK ← INFO (CPG 3)			
			→ 200 OK INFO			
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)	<b>←</b> →	<ul><li>← INVITE 2 (sendrecv)</li><li>→ 200 OK INVITE</li></ul>			
	ACK	<b>←</b>	(sendrecv) ← ACK			
		Apply post test routine				
	•					

Selection criteria PIC Test Purpose name O-M Test Purpose A connect of the connec	312_010	Reference	[1], clause 7.3.1 [2], clause 7.4.14			
Test Purpose name O-M Test Purpose A concentration of the purp	PSTN-SS/CONF/					
Test Purpose  A center required CP senter required	S 6.3.1/1 AND PICS 6.3.2/	13				
ISUP Parameter values  CPC CPC SIP Parameter values  INV Comments Message flows	IGCF: notification 'isolated'	and 'reattached' interwor	ked			
CPC CPC SIP Parameter values INV INV Comments This Message flows	A conference at the O-MFCF is established. Ensure that on receipt of a reINVITE with encapsulated CPG message the Generic notification indicator is set to 'isolated' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendonly'. Subsequently on receipt of a CPG message the Generic notification indicator is set to 'reattached' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv'					
Comments This Message flows	CPG 1: Generic notification					
Message flows	ITE 1: SDP a=sendonly ITE 2: SDP					
Message flows	a=sendrecv					
INV	s state is applicable for CON	NF .				
	SIP-I ITE (IAM)  Ringing M – free)   SIP-I  ←	MGCF → ← ←	SIP NNI INVITE 100 Trying 180 Ringing			
200 ANI ACI		<b>←</b> →	200 OK (INVITE) ACK			
	O (CPG 1) → OK (INFO) ←					
	ITE 1 (sendonly) → G 2)	<b>→</b>	INVITE 1 (sendonly)			
(rec	OK INVITE +	+	200 OK INVITE (recvonly)			
ACI	→ ITE 2 (sendrecv) →	<b>→</b>	ACK INVITE 2 (sendrecv)			
(CF 200	G 3) OK INVITE	<b>+</b>	200 OK INVITE (sendrecv)			
ACI	ndrecv)					

### 6.2.13 Closed User Group (CUG)

TP number	TP_313_001	Reference	[1], clause 7.3.1	
			[2], clause 7.4.16	
TSS reference	PSTN-SS/CUG/			
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/14		
Test Purpose name	oFCi CUG outgoing a	ccess allowed call successful		
Test Purpose		G with outgoing access allowe	ted IAM the optional Forward call ed' an INVITE is sent. No CUG	
ISUP Parameter values	IAM: Optional Forwa	ard Call indicator: CUG with o	utgoing access allowed	
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
			← 100 Trying	
	Apply post test routine			

TP number	TP_313_002	Reference	[1], clause 7.3.1		
			[2], clause 7.4.16		
TSS reference	PSTN-SS/CUG/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	.2/14			
Test Purpose name	oFCi CUG outgoing access	not allowed			
Test Purpose		INVITE with encapsulated IAM toutgoing access not allowed eit			
		in the INVITE or a REL message			
		ting CUG without access is sent			
	exchange	Ü	0 0		
ISUP Parameter values	IAM: Optional Forward Ca	Il indicator: CUG with outgoing a	ccess not allowed		
	REL: Cause value (if sent)	-			
	29				
	Diagnostics=CU0	Swithout access			
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →				
	CASE A				
		<b>→</b>	INVITE		
	← 100 Trying				
	Apply post test routine				
	CASE B				
	480 Temporarily ←				
	unavailable (REL #29)				
	ACK (RLC)				

# 6.2.14 Multi-Level Precedence and Pre-emption (MLPP)

TP number	TP_314_001	Reference	[1], clause 7.3.1
			[2], clause 7.4.17
TSS reference	PSTN-SS/MLPP/		
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/15	
Test Purpose name	Precedence paramete	er received in IAM, discarded	
Test Purpose	Ensure that on receipt	t of an INVITE with encapsula	ated IAM and a Precedence parameter is
	present, this paramete	er is discarded without affect	the ongoing call setup
ISUP Parameter values	IAM: Precedence		·
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
	. ,		← 100 Trying
		Apply post test	routine

TP number	TP_314_002		Reference	[1], clause 7.3.1
				[2], clause 7.4.17
TSS reference	PSTN-SS/MLPP/			
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/2	15	
Test Purpose name	A REL cause #9 te	rminates an	early dialogue	
Test Purpose				REL message in an early dialogue
			value is set to '9', a CAN0 ICEL request and the cau	CEL request is sent. A Reason se value is set to '9'
ISUP Parameter values	<b>REL:</b> Cause = 9			
SIP Parameter values	CANCEL: Reason:	Q.850 caus	se=9	
Comments				
Message flows	SIP-I		MGCF	SIP NNI
		A Ses	ssion is already in early	dialogue
	CANCEL (REL)	<b>→</b>	→	CANCEL
	200 OK CANCEL	<b>←</b>	<b>←</b>	200 OK CANCEL
	(RLC)			
	487 Request	<b>←</b>	<b>←</b>	487 Request Terminated
	Terminated			
	ACK	<b>→</b>	<b>→</b>	ACK

TP number	TP_314_003	Reference	[1], claus	se 7.2.1	
			[2], claus	se 7.4.17	
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	.2/15			
Test Purpose name	A REL cause #8 terminates	an early dialogue			
Test Purpose	Ensure that on receipt of a 4xx/5xx with encapsulated REL message in an early dialogue at the I-MGCF and the Cause value is set to '8', a 4xx or 5xx final response is sent. A Reason header is contained in the final response message and the cause value is set to '9'				
ISUP Parameter values	REL: Cause = 8				
SIP Parameter values	480: Reason: Q.850; caus	se=8			
Comments					
Message flows	SIP NNI	MO	SCF	SIP-I	
	A Session is already in early dialogue				
	4xx/5xx	<b>←</b>	+	4xx/5xx (REL)	
	ACK	<b>→</b>	<b>→</b>	ACK (RLC)	

TP number	TP_314_004	Reference	[1], clause 7.3.1		
			[2], clause 7.4.17		
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/15			
Test Purpose name	A REL cause #9 termi	nates a confirmed dialog	ue		
Test Purpose	Ensure that on receipt	Ensure that on receipt of a REL message in a confirmed dialogue and the Cause value is			
	set to '9', a BYE request is sent. A Reason header is contained in the BYE request and the				
	cause value is set to 'S	9'			
ISUP Parameter values	<b>REL:</b> Cause = 9				
SIP Parameter values	BYE: Reason: Q.850	); cause=9			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	A Session is already established				
	BYE (REL)	<b>→</b>	→ BYE		
	200 OK BYE (RLC)	<b>←</b>	← 200 OK BYE		

### 6.2.15 Global Virtual Network Service (GVNS)

TP number	TP_315_001	Reference	[1], clause 7.2.1
			[2], clause 7.4.18
TSS reference	PSTN-SS/GVNS/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	16	
Test Purpose name	Forward GVNS parameter in IA	M discarded	
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM co	ontaining a request for GVNS
	service, the Forward GVNS pa	rameter is discarded without at	ffect the ongoing call setup
ISUP Parameter values	IAM: Called party number		
	Forward GVNS		
	Originating participa	ting service provider	
	GVNS user group		
	Terminating network	routing number	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

# 6.2.16 Reverse charging (REV)

TP number	TP_316_001	Reference	[1], clause 7.3.1
			[2], clause 7.4.20
TSS reference	PSTN-SS/REV/		
Selection criteria	PICS 6.3.7/1 AND PIC	CS 6.3.1/1 AND PICS 6.3.2/17	
Test Purpose name	REV request from the	e calling user at the call set-up	time
Test Purpose		•	ted IAM and a Remote Operation
		containing a REVCallingReqSi is discarded without affect the	etup invoke component, the Remote ongoing call setup
ISUP Parameter values	IAM: Called party no	umber	
	Remote Opera		
		gReqSetup invoke	
	transfei	rRequested = true	
	callingl	JserNumber	
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test re	

TP number	TP_316_002	Reference	[1], clause 7.3.1	
			[2], clause 7.4.20	
TSS reference	PSTN-SS/REV/			
Selection criteria	PICS 6.3.7/1 AND PICS 6.3.1/2	1 AND PICS 6.3.2/17		
Test Purpose name	REV request from the calling us	ser during the active state of th	e call	
Test Purpose	Ensure that on receipt of a INFO with encapsulated FAC message at the O-MGCF in the active state of a call and a Remote Operation parameter is present containing a REVCallingReqActive invoke component, the FAC message is discarded without affect the present call			
ISUP Parameter values	FAC: Remote Operation  REVCallingReqActive invoke  transferRequested = true  callingUserNumber			
SIP Parameter values	•			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	A confir	med dialogue is already esta	blished	
	INFO (FAC) →			
	200 OK INFO ←			
		Apply post test routine		

TP number	TP_316_003	Reference	[1], clause 7.2.1		
			[2], clause 7.4.20		
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 6.3.7/1 AND PICS 6.3.1	/1 AND PICS 6.3.2/17			
Test Purpose name	REV request from the called u	iser during the active state	of the call		
Test Purpose	Ensure that on receipt of a IN	FO with encapsulated FAC	message at the I-MGCF in the		
	active state of a call and a Re				
	REVCalledRequest invoke co	mponent, the FAC messag	ge is discarded without affect the		
	present call				
ISUP Parameter values	FAC: Remote Operation				
	REVCalledReques	t invoke			
	transferReques				
	calledUserNumber				
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	A confi	rmed dialogue is already	established		
	← INFO (FAC)				
		<b>→</b>	200 OK INFO		
		Apply post test routing	ne		

TP number	TP_316_004	Reference	[1], clause 7.3.1		
	100_00.		[2], clause 7.4.20		
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 6.3.7/2 AND PICS 6	5.3.1/1 AND PICS 6.3.2/	17		
Test Purpose name	REV request in IAM explic				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM message and a Remote Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a:  • 200 OK INVITE with encapsulated ANM a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork OR  • BYE with encapsulated REL a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork and the Cause value is set to '29'				
ISUP Parameter values	callingUserl ANM: Remote Operation REVCallingRed rejectedByN REL: Cause 29 Remote Operation	qSetup invoke Juested = true Number qSetup return error Network qSetup return error			
SIP Parameter values	TojectedByt	totwork			
Comments					
Message flows	CASE A  180 Ringing (ACM – free) 200 OK INVITE (ANM) ACK	MGCF  ←  Apply post test	SIP NNI  → INVITE ← 180 Ringing  ← 200 OK INVITE → ACK routine		
	, ,	<b>⊹</b>			

TP number	TP_316_005	Reference	[1], clause 7.3.1	
			[2], clause 7.4.20	
TSS reference	PSTN-SS/REV/			
Selection criteria	PICS 6.3.7/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/17		
Test Purpose name	REV request in the active state	explicit rejected at the O-MG	CF	
Test Purpose	Ensure that on receipt of an IN			
	active state of the call and a Re			
	REVCallingReqSetup invoke co			
	supported, the SUT sends in a			
	parameter containing a REVCa	allingReqActive return error co	mponent set to	
	rejectedByNetwork			
ISUP Parameter values	FAC: Remote Operation			
	REVCallingReqActiv			
	transferRequeste			
	callingUserNumb	per		
	FRJ: Remote Operation			
	REVCallingReqActiv			
	rejectedByNetwork			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
		med dialogue is already esta	ablished	
	INFO (FAC) →			
	200 OK INFO ←			
	INFO (FRJ)			
	200 OK INFO →			
		Apply post test routine		

TP number	TP_316_006	Reference	[1], clause 7.2.1		
			[2], clause 7.4.20		
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 6.3.7/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/17			
Test Purpose name	REV request in the active state	e explicit rejected at the I-MC	GCF		
Test Purpose	Ensure that on receipt of an INFO with encapsulated FAC message at the O-MGCF in the active state of the call and a Remote Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a INFO with encapsulated FRJ message a Remote Operation parameter containing a REVCalledRequest return error component set to				
ISUP Parameter values	rejectedByNetwork  FAC: Remote Operation	ed = true per return error			
SIP Parameter values	10,000.00.00				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	A confir	med dialogue is already e	stablished		
		<b>←</b> II	NFO (FAC) 00 OK INFO		
			NFO (FRJ)		
			00 OK INFO		
		Apply post test routine			

# 6.2.17 User-to-User Signalling (UUS)

#### 6.2.17.1 User-to-User Signalling (UUS) service 1 (implicit)

TP number	TP_317_001	Reference	[1], clause 7.2.1
			[2], clause 7.4.21.1.2
TSS reference	PSTN-SS/UUS/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18	
Test Purpose name	User to user information receiv	ed in an INVITE is sent in an I	AM
Test Purpose	Ensure that on receipt of a Use		
	'encoding' parameter is set to ' User-to-user parameter is pres	ent. The User Information is d	erived from the uuidata
	parameter of the SIP User-to-L	Iser header field and the ISUF	User-to-user Protocol
	discriminator is set to '04'		
ISUP Parameter values	IAM: User-to-user Information	า	
	User Information		
SIP Parameter values	INVITE: User-to-User: <uuid< th=""><th>ata&gt;; encoding=hex</th><th></th></uuid<>	ata>; encoding=hex	
	INVITE (IAM): no "User-to-Use	er" <b>header</b>	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←		
		Apply post test routine	

TP number	TP_317_002	Reference	[1], clause 7.2.1		
			[2], clause 7.4.21.1.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18			
Test Purpose name	User to user information receiv	red in a Cancel is sent in a REI	_		
Test Purpose	Ensure that on receipt of a User-to-User header field in a CANCEL request and the 'encoding' parameter is set to 'hex' an CANCEL with encapsulated REL message is sent. A User-to-user parameter is present. The User Information is derived from the uuidata parameter of the SIP User-to-User header field and the ISUP User-to-user Protocol discriminator is set to '04'				
ISUP Parameter values	REL: User-to-user Information User Information	n			
SIP Parameter values	CANCEL: User-to-User: <uuid CANCEL (REL): no "User-to-User)</uuid 				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	<b>→</b>	INVITE (IAM)		
	CANCEL -	<b>→</b>	CANCEL (REL)		
	200 OK CANCEL	· <b>←</b>	200 OK CANCEL (RLC)		
	487 Request Terminated	· <b>←</b>	487 Request Terminated		
	ACK -	<b>→</b>	ACK		

TP number	TP_317_003	Reference	[1], clause 7.2.1	
			[2], clause 7.4.21.1.2	
TSS reference	PSTN-SS/UUS/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18		
Test Purpose name	User to user information receiv	ed in a BYE is sent in a REL		
Test Purpose	Ensure that on receipt of a Use			
	dialogue was established and t			
	encapsulated REL message is			
	Information is derived from the		Jser-to-User header field and	
	the ISUP User-to-user Protoco	discriminator is set to '04'		
ISUP Parameter values	<b>REL:</b> User-to-user Information	า		
	User Information			
SIP Parameter values	BYE: User-to-User: <uuidata></uuidata>			
	BYE (REL): no "User-to-User"	header		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	A confirmed dialogue is already established			
	BYE →	<b>→</b>	BYE (REL)	
	200 OK BYE ←	+	200 OK BYE (RLC)	

TP number	TP 317 004	Reference	[1], clause 7.3.1
	0.,00.	No.0101100	[2], clause 7.4.21.1.3
TSS reference	PSTN-SS/UUS/	•	
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/18	
Test Purpose name			with encapsulated IAM is sent in an INVITE
Test Purpose	encapsulated IAM, ar uuidata parameter is	n INVITE request is sent ar	er contained in an INVITE with and the User-to-User header is present. The rmation of the User-to-user parameter of
ISUP Parameter values	IAM: User-to-user II User Inforr		
SIP Parameter values	INVITE: User-to-Us INVITE (REL): no "U	ser: <uuidata>; encoding=h ser-to-User" <b>header</b></uuidata>	ex
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
			<ul><li>100 Trying</li></ul>
		Apply post te	st routine

TP number	TP_317_005	Reference	[1], clause 7.3.1		
			[2], clause 7.4.21.1.3		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/18			
Test Purpose name	User to user information	received in a REL is sent in	n a CANCEL		
Test Purpose	Ensure that on receipt of User-to-user parameter contained in a CANCEL with encapsulated REL before the dialogue is confirmed, a CANCEL request is sent and the User-to-User header is present. The uuidata parameter is derived from the User Information of the User-to-user parameter of the REL, the encoding parameter is set to 'hex'				
ISUP Parameter values	REL: User-to-user Infor User Informati				
SIP Parameter values	CANCEL: User-to-User: <uuidata>; encoding=hex CANCEL (REL): no "User-to-User" header</uuidata>				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE ← 100 Trying		
	CANCEL (REL)	<b>→</b>	→ CANCEL		
	200 OK CANCÉL (RLC)	<b>←</b>	← 200 OK CANCEL		
	487 Request Terminated	<b>←</b>	← 487 Request Terminate	ed	
	ACK	<b>→</b>	→ ACK		

TP number	TP_317_006	Reference	[1], clause 7.3.1			
			[2], clause 7.4.21.1.3			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18				
Test Purpose name	User to user information receiv	ed in a REL is sent in a BYE				
Test Purpose	Ensure that on receipt of User-					
	REL after the dialogue is confir					
	present. The uuidata paramete		mation of the User-to-user			
	parameter of the REL, the enco	oding parameter is set to 'hex'				
ISUP Parameter values	<b>REL:</b> User-to-user Information	า				
	User Information					
SIP Parameter values	BYE: User-to-User: <uuidata>; encoding=hex</uuidata>					
	BYE (REL): no "User-to-User" header					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	A confirmed dialogue is already established					
	BYE (REL) →	<b>→</b>	BYE			
	200 OK BYE (RLC) ←	<b>←</b>	200 OK BYE			
	·	Apply post test routine	` '			

### 6.2.17.2 User-to-User Signalling (UUS) service 1 (explicit)

TP number	TP_317_101	Reference	[1], clause 7.3.1			
			[2], clause 7.4.21.2			
TSS reference	PSTN-SS/UUS/		16 37			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/18 AND NOT PICS 6.3.8/1				
Test Purpose name	User-to-user indicator service	1 'not essential' received in IAN	M, discarded			
Test Purpose		Ensure that on receipt of an INVITE with encapsulated IAM and a User-to-user indicator parameter for the service 1 is present the request is 'not essential' the call setup is not disrupted				
ISUP Parameter values	IAM: User-to-user Indicator Request service 1 not essential User-to-user Information User Information	n				
SIP Parameter values						
Comments						
Message flows	SIP-I INVITE (IAM)  180 Ringing (ACM - free) 200 OK INVITE (ANM)  ACK  →	MGCF	SIP NNI INVITE 180 Ringing 200 OK INVITE ACK			

TP number	TP_317_102	Reference	[1], clause 7.3.1		
			[2], clause 7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	2/18 AND PICS 6.3.8/1			
Test Purpose name		e 1 'not essential' received in IA			
	response in 180 Ringing witl	n encapsulated ACM or 200 OK	INVITE with encapsulated		
	ANM 'not provided'				
Test Purpose		INVITE with encapsulated IAM a			
		s present the request is 'not ess			
		icator is sent in a 180 Ringing w			
		d ANM with a response for serv	ice 1 'not provided'		
ISUP Parameter values	IAM: User-to-user Indicato	•			
	Request service 1				
	not essential				
	User-to-user Informa	ion			
	User Information				
	ACM or ANM:				
	User-to-user Indicator				
	Response service 1				
OID D	not Provided				
SIP Parameter values					
Comments	OID I	11005	OLD VIVI		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	180 Ringing (ACM) ←	<del>-</del>	180 Ringing		
	200 OK INVITE (ANM) ←	<b>←</b>	200 OK INVITE		
	ACK →	<b>→</b>	ACK		
		Apply post test routine			

TP number	TP_317_103	Reference	[1], clause 7.3.1		
			[2], clause 7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18 AND PICS 6.3.8/1			
Test Purpose name	User-to-user indicator service	l 'essential' received in IAM, ca	all is rejected		
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM a	nd a User-to-user indicator		
	parameter for the service 1 is p 500 Server Internal Error with of Diagnostics field contains the p	encapsulated REL is sent the C	Cause value is set to '29 ' the		
ISUP Parameter values	IAM: User-to-user Indicator				
	Request service 1				
	essential				
	User-to-user Information	n			
	User Information				
	REL: Cause indicator				
	Cause 29				
	Diagnostics 42				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →				
	500 Server Internal ←				
	Error (REL)				
	ACK (RLC) →				

# 6.2.17.3 User-to-User Signalling (UUS) service 2

TP number	TP_317_201	Refere	nce	[1], clause 7.3.1		
				[2], clause 7.4.21.2		
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/18 AND	NOT PICS 6.3.8/1			
Test Purpose name		r service 2 'not es	sential' received in IN'	VITE with encapsulated IAM,		
	discarded					
Test Purpose				and a User-to-user indicator		
		vice 2 is present t	he request is 'not esse	ential' the call setup is not		
	disrupted					
ISUP Parameter values	IAM: User-to-user Ir	ndicator				
	Request se	ervice 2				
	not ess	ential				
	User-to-user Ir	User-to-user Information				
	User Inform	User Information				
SIP Parameter values						
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
		Apply	y post test routine			

TP number	TP_317_202	Reference	[1], clause 7.3.1		
		1.3.3.3.3.3	[2], clause 7.4.21.2		
TSS reference	PSTN-SS/UUS/		[[-]]		
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/18 AND PICS 6.3.8	3/1		
Test Purpose name	User-to-user indicator re-	User-to-user indicator service 2 'not essential' received in INVITE with encapsulated IAM, User-to-user indicator response in 180 Ringing with encapsulated ACM or 200 OK INVITE with encapsulated ANM 'not provided'			
Test Purpose	parameter for the service	Ensure that on receipt of an INVITE with encapsulated IAM and a User-to-user indicator parameter for the service 2 is present the request is 'not essential', the call setup is not disrupted A User-to-user indicator is sent in an ACM or ANM with a response for service 2 'not provided'			
ISUP Parameter values	IAM: User-to-user Indic Request servi not essent User-to-user Infor User Informat ACM or ANM: User-to-user Indic Response ser not Provid	ce 2 tial rmation tion cator vice 2			
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) 180 Ringing (ACM) 200 OK INVITE (ANM) ACK	→ ← ← → Apply post test	→ INVITE ← 180 Ringing ← 200 OK INVITE → ACK		

TP number	TP 317 203	Reference	[1], clause 7.3.1		
			[2], clause 7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18 AND PICS 6.3.8/1			
Test Purpose name	User-to-user indicator service 2	2 'essential' received in INVITE	with encapsulated IAM, call		
	is rejected				
Test Purpose	Ensure that on receipt of an IN				
	parameter for the service 2 is p				
	500 Server Internal Error with 6				
	Diagnostics field contains the p	arameter name of the User-to-	user indicator '42'		
ISUP Parameter values	IAM: User-to-user Indicator				
	Request service 2				
	essential				
	User-to-user Information				
	User Information				
	REL: Cause indicator				
	Cause 29				
	Diagnostics 42				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →				
	500 Server Internal ←				
	Error (REL)				
	ACK (RLC) →				

### 6.2.17.4 User-to-User Signalling (UUS) service 3

TP number	TP_317_301	Reference	[1], clause 7.3.1			
			[2], clause 7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/18 AND NOT PICS 6.3.8/1	1			
Test Purpose name	User-to-user indicator servic	e 3 'not essential' received ir	n IAM, discarded			
Test Purpose	Ensure that on receipt of an	INVITE with encapsulated IA	AM and a User-to-user indicator			
	parameter for the service 3 is	s present the request is 'not	essential' the call setup is not			
	disrupted					
ISUP Parameter values	IAM: User-to-user Indicato	r				
	Request service 3	•				
	not essential	not essential				
	User-to-user Information					
	User Information					
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →		→ INVITE			
			← 100 Trying			
		Apply post test routin	e			

TP number	TP_317_302	Reference	[1], clause 7.3.1		
			[2], clause 7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	.2/18 AND PICS 6.3.8/1			
Test Purpose name		ce 3 'not essential' received in IAI			
	response in 180 Ringing with	h encapsulated ACM or 200 OK	INVITE ANM 'not provided'		
Test Purpose		IAM and a User-to-user indicato			
		ssential', the call setup is not dis			
		encapsulated ACM or 200 OK I	NVITE with encapsulated ANM		
	with a response for service	•			
ISUP Parameter values	IAM: User-to-user Indicate	or			
	Request service	3			
	not essential				
	User-to-user Informa	tion			
	User Information				
	ACM or ANM:				
	User-to-user Indicator				
	Response service 3				
	not Provided				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing		
	200 OK INVITE (ANM)	<b>←</b>	200 OK INVITE		
	ACK →	<b>→</b>	ACK		
		Apply post test routine			

TP number	TP_317_303	Reference	[1], clause 7.3.1
			[2], clause 7.4.21.2
TSS reference	PSTN-SS/UUS/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/18 AND PICS 6.3.8/1	
Test Purpose name	User-to-user indicator service is rejected	3 'essential' received in INVITE	with encapsulated IAM, call
Test Purpose	parameter for the service 3 is 500 Server Internal Error with	IVITE with encapsulated IAM a present the request is 'essentia encapsulated REL is sent the C parameter name of the User-to-	I', the call setup is rejected. A Cause value is set to '29' the
ISUP Parameter values	IAM: User-to-user Indicator Request service 3 essential User-to-user Information User Information REL: Cause indicator Cause 29 Diagnostics 42	on	
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)  500 Server Internal  Error (REL)  ACK (RLC)  ←	Apply post test routine	

#### 6.2.18 Void

# 6.3 IMS Supplementary Services

# 6.3.1 Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR)

TP number	TP_401_001	Reference	[1], clause 7.2.1		
			[2], clause 7.5.1		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/1 AND PICS 6.3.2/				
Test Purpose name	INVITE received. From header	not present, P-Asserted-Identi	ity not present. Network		
	provided number is sent				
Test Purpose	Ensure that on receipt of an IN				
	From header does not contain	an URI that encodes an E.164	Address, an INVITE with		
	encapsulated IAM is sent.				
	An Calling party number param	neter is present and the addres	ss digits are provided by the		
	SUT				
ISUP Parameter values	IAM: Calling party Number				
	Number incomplete				
		icator=ISDN/Telephony (Reco	mmendation E.164 [i.1])		
	Nature of Address Ir				
		the URI is equal to the CC of			
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
		ion=restricted or allowed			
		ided by the Network			
		al (significant) number" then se			
		ational number" then set to "Co	C"+" NDC"+"SN"		
SIP Parameter values	<b>INVITE</b> : P-Asserted-Identity:	•			
	From: does not cont	ain a URI that encodes an E.1	64 address		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM		
	100 Trying ←				
		Apply post test routine			

TP number	TP_401_002	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/1 AND PICS 6.3.3/	4 AND PICS 6.3.2/1			
Test Purpose name	INVITE received. From header	not present, P-Asserted-Iden	tity not present. Network		
	provided number is sent				
Test Purpose	Ensure that on receipt of an IN				
	From header does not contain	an URI that encodes an E.164	4 Address, an INVITE with		
	encapsulated IAM is sent.				
	A Calling party number parame				
	SUT. The Presentation restrict	ion indicator is set to 'presenta	ation restricted by network'		
ISUP Parameter values	IAM: Calling party Number				
		indicator=Complete	= .0.(5.47)		
		licator=ISDN/Telephony (Reco	ommendation E.164 [i.1])		
	Nature of Address I				
		the URI is equal to the CC of			
	located AND the next BICC/ISUP node is located in the same country then national (significant) number				
	else	illicant) number			
	international	number			
	Screening indicator				
	_	tion=presentation restricted by	network		
		vided by the Network	network		
		nal (significant) number" then s	et to "NDC" + "SN"		
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Identity:				
		tain a URI that encodes an E.1	164 address		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	100 Trying ←	•			
		Apply post test routine			

TP number	TP_401_003	Reference	[1], clause 7.2.1			
			[2], clauses 7.5.1,			
			7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/2 AND PICS 6.3.2/1					
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity not present. Address digits omitted					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the					
-	From header does not contain an URI that encodes an E.164 Address, an INVITE with					
	encapsulated IAM is sent.					
	A Calling party number parameter is present and the address digits omitted					
ISUP Parameter values	ter values IAM: Calling party Number  Number incomplete indicator=Complete					
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
	Nature of Address Indicator					
	If CC encoded in the URI is equal to the CC of the country where MGCF is					
	located AND the next BICC/ISUP node is located in the same country ther national (significant) number else international number Screening indicator=Network Provided					
	Presentation restriction= restricted or allowed					
OID D	Address signal Address digits not present					
SIP Parameter values	INVITE: P-Asserted-Identity: not present From: does not contain a URI that encodes an E.164 address					
0	From: does	not contain a URI that encode	es an E.164 address			
Comments	CID NINI	MOOF	OID I			
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<b>→</b>	→ INVITE (IAM)			
	100 Trying	<b>4</b>	author -			
	Apply post test routine					

TP number	TP_401_004	Reference	[1], clause 7.2.1		
Ti mamber	11 _401_004	Troision on o	[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/2 AND PICS 6.3.3/3 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity not present APRI is set to 'Address not available'				
Total Brown and					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the				
	From header does not contain an URI that encodes an E.164 Address, an INVITE with				
	encapsulated IAM is sent.				
	A Calling party number parameter is present and the address digits omitted. The				
	Presentation restriction indicator is set to 'Address not available'				
ISUP Parameter values	IAM: Calling party Number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator='000'				
	Nature of Address Indicator='0000000'				
	Screening indicator=Network Provided				
	Presentation restriction=Address not available				
	Address signal Address digits not present				
SIP Parameter values	INVITE: P-Asserted-Identity: not present				
	From: does not contain a URI that encodes an E.164 address				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<b>→</b>	INVITE (IAM)		
	100 Trying ←		,		
	Apply post test routine				

TP number	TP_401_005	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.1,		
T00 (	IN 40 00/OLD OLD/		7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/1 PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity not present. Network provided				
	number is sent				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not prese				
	From header contains an URI that encodes an E.164 Address, an INVITE with				
		ncapsulated IAM is sent.			
	A Calling party number parameter is present and the address digits are provided by the SUT. An Additional calling Party number is sent in a Generic number parameter and the Address signals are derived from the Userpart of the From header				
ICUD Devemeter volues					
ISUP Parameter values		IAM: Calling party Number  Number incomplete indicator=Complete			
	Number incor	npiete indicator=Corripiete	ony (Pasammandation E 164 (i 11)		
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])  Nature of Address Indicator  If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then				
		al (significant) number	de is located in the same country then		
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted or allowed				
	Address signal provided by the Network				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
	Additional calling party number				
	Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country th				
	national (s	significant) number			
	else				
	international number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
		restriction=restricted or allo	= =		
	Screening indicator=user provided not verified				
	Address digits derived from the 'From' header				
	if NOA is "national (significant) number" then set to "NDC" + "SN"  If NOA is "international number" set to "CC"+' NDC'+'SN'				
SID Devemeter values			IO CC + NDC + SN		
SIP Parameter values		dentity: not present ns a URI that encodes an E	164 address		
Comments	FIOHI. COHLAIR	is a OIN mai encodes all E	107 add1633		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	100 Trying	É	← 100 Trying		
	1.55 1171119	Apply post test			
<u>L</u>		Apply post test	outing		

TP number	TP_401_006	Reference	[1], clause 7.2.1
			[2], clauses 7.5.1,
			7.2.3.1.2.6
TSS reference	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.3/1 AND PICS 6.3.3/4 AND PICS 6.3.2/1		
Test Purpose name	INVITE received. From header present, P-Asserted-Identity not present. Network provided number is sent		
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header contains an URI that encodes an E.164 Address, an INVITE with encapsulated IAM is sent.  A Calling party number parameter is present and the address digits are provided by the SUT. The Presentation restriction indicator is set to 'presentation restricted by network'. An Additional calling Party number is sent in a Generic number parameter and the Address signals are derived from the Userpart of the From header and the Presentation restriction		
	indicator is set to 'presentation	allowed'	
ISUP Parameter values	Numbering Plan Ind Nature of Address II If CC encoded ir located AND the national (sign else international Screening indicators Presentation restrict Address signal prov if NOA is "nation If NOA is "intern Additional calling part Nature of Address II If CC encoded ir located AND the national (signification else international nur Number incomplete Numbering Plan Ind Presentation restrict Screening indicators Address digits deriv if NOA is "nation If NOA is "intern	in the URI is equal to the CC of enext BICC/ISUP node is local initicant) number  number  =Network Provided ition=presentation restricted by vided by the Network inal (significant) number" then set to "C ity number indicator in the URI is equal to the CC of enext BICC/ISUP node is local indicator=Complete licator=ISDN/Telephony (Recotton=allowed) euser provided not verified inal (significant) number" then set inal (significant) number" then set inal (significant) number" then set inal number" set to "CC"+"	the country where MGCF is ted in the same country then  network  et to "NDC" + "SN"  C"+" NDC"+"SN"  the country where MGCF is ted in the same country then  nummendation E.164 [i.1])
SIP Parameter values	INVITE: P-Asserted-Identity: From: contains a UF	RI that encodes an E.164 addr	ess
Comments	. Terri. Germanio d Gr		
Message flows	SIP NNI	MGCF	SIP-I
	INVITE +	· -	INVITE (IAM)

Selection criteria PICS	SS/OIP-OIR/ 6 6.3.3/2 AND NOT PICS 6		[2], clauses 7.5.1, 7.2.3.1.2.6		
Selection criteria PICS	6.3.3/2 AND NOT PICS 6		7.2.3.1.2.6		
Selection criteria PICS	6.3.3/2 AND NOT PICS 6				
Test Purnose name INI\/I					
	INVITE received. From header present, P-Asserted-Identity not present. Address digits omitted				
		VITE request the P-Asserted-Id	lentity is not present and the		
		an URI that encodes an E.164			
	psulated IAM is sent.	an ord that chooses an 2.101	Address, all liver 2 with		
		ter is present and the address	digits omitted. An Additional		
		a Generic number parameter a			
	ed from the Userpart of the		3		
	Calling party Number				
	Number incomplete				
		cator=ISDN/Telephony (Recor	nmendation E.164 [i.1])		
	Nature of Address In				
		the URI is equal to the CC of t			
		next BICC/ISUP node is locate	ed in the same country then		
		ificant) number			
	else				
	international				
	Screening indicator=Network Provided Presentation restriction=restricted or allowed				
	Address signal Address digits not present				
	Additional calling party number				
	Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else				
	international nun				
	Number incomplete				
	<u> </u>	cator=ISDN/Telephony (Recor	nmendation E.164 [i.1])		
		on=restricted or allowed			
		user provided not verified			
	if NOA is "nation	ed from the 'From' header al (significant) number" then se	st to "NDC" + "SN"		
	If NOA is "interna	ational number" set to "CC"+' N	IDC'+'SN'		
SIP Parameter values INVI			20 1 011		
The state of the s		If that encodes an E.164 addre	ess.		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
INVI	ΓE <b>→</b>	<b>→</b>	INVITE (IAM)		
	Γrying <b>←</b>		,		
	, ,	Apply post test routine			

TP number	TP_401_008	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/2 AND PICS 6.3.3/5	5 AND PICS 6.3.1/2 AND PICS	S 6.3.2/1		
Test Purpose name	INVITE received. From header	present, P-Asserted-Identity r	not present. Address digits		
	omitted		-		
Test Purpose	Ensure that on receipt of an IN	VITE request the P-Asserted-I	dentity is not present and the		
	From header does not contain	an URI that encodes an E.164	Address, an INVITE with		
	encapsulated IAM is sent.				
	A Calling party number parame	eter is present and the address	s digits omitted. In addition, the		
	Additional calling party number	is omitted.			
ISUP Parameter values	IAM: Calling party Number				
	Number incomplete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
	Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted or allowed				
		ess digits not present			
	Additional calling part				
SIP Parameter values	<b>INVITE:</b> P-Asserted-Identity:				
	From: contains a UR	I that encodes an E.164 addr	ess		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	<b>→</b>	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

TP_401_009	Reference	[1], clause 7.2.1							
		[2], clauses 7.5.1,							
LINAO GOVOLD OLDV		7.2.3.1.2.6							
Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the									
		ne address digits are derived from the							
		ony (Recommendation E.164 [i.1])							
		the CC of the country where MGCF is							
		de is located in the same country then							
national (significant) number									
else									
international number Screening indicator=Network Provided Presentation restriction=allowed									
						Address signal derived from the P-Asserted-Identity			
If NOA is	"international number" then	n set to "CC"+" NDC"+"SN"							
From: does r	not contain a URI that enco	des an E.164 address							
Privacy not p	present								
SIP NNI	MGCF	SIP-I							
INVITE	<b>→</b>	→ INVITE (IAM)							
100 Trying ←									
	Apply post test	routine							
	IMS-SS/OIP-OIR/ PICS 6.3.2/1 INVITE received. From Ensure that on receipt of From header does not of the present, an INVITE of Calling party number of P-Asserted-Identity head of the present of the pre	IMS-SS/OIP-OIR/  PICS 6.3.2/1  INVITE received. From header not present, P-Asse Ensure that on receipt of an INVITE request the P-From header does not contain an URI that encode not present, an INVITE with encapsulated IAM is s A Calling party number parameter is present and the P-Asserted-Identity header  IAM: Calling party Number  Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Teleph Nature of Address Indicator  If CC encoded in the URI is equal to located AND the next BICC/ISUP not national (significant) number else international number  Screening indicator=Network Provided Presentation restriction=allowed Address signal derived from the P-Asset if NOA is "national (significant) number If NOA is "international number" there is NOA is "national a URI that encode Privacy not present  SIP NNI MGCF							

TP number	TP_401_010	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name	INVITE received. From 'none'	header not present, P-Asse	rted-Identity present, Privacy value		
Test Purpose	Ensure that on receipt of	of an INVITE request the P-	Asserted-Identity is present and the		
	From header does not d	contain an URI that encodes	s an E.164 Address and a Privacy		
		o 'none', an INVITE with enc			
			ne address digits are derived from the		
			ction is set to 'presentation 'allowed'		
ISUP Parameter values	IAM: Calling party N	umber			
	Number inco	emplete indicator=Complete			
	Numbering F	Plan Indicator= <i>ISDN/Teleph</i> e	ony (Recommendation E.164 [i.1])		
		ldress Indicator			
			the CC of the country where MGCF is		
	located A	located AND the next BICC/ISUP node is located in the same country then national (significant) number			
	natior				
	else				
	intern	national number			
	Screening in	dicator=Network Provided			
	Presentation	restriction=allowed			
		nal derived from the P-Ass			
	if NOA is	"national (significant) numb	er" then set to "NDC" + "SN"		
	If NOA is	"international number" then	set to "CC"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asserted-I	dentity: present			
	From: does r	not contain a URI that encoc	des an E.164 address		
	Privacy: none				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
	100 Trying	<b>←</b>	. ,		
		Apply post test r	outine		

TP number	TP_401_011	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name	INVITE received. Fro	om header not present, P-Asse	erted-Identity present, Privacy value 'id'		
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
			s an E.164 Address and a Privacy		
		t to 'id', an INVITE with encaps			
			ne address digits are derived from the		
	P-Asserted-Identity h	neader. The Presentation restr	iction is set to 'presentation 'restricted'		
ISUP Parameter values	IAM: Calling party				
	Number in	ncomplete indicator=Complete			
	Numberin	g Plan Indicator=ISDN/Teleph	ony (Recommendation E.164 [i.1])		
	Nature of	Address Indicator			
	If CC 6	encoded in the URI is equal to	the CC of the country where MGCF is		
	located	d AND the next BICC/ISUP no	de is located in the same country then		
	nat	tional (significant) number			
	else				
	international number				
	Screening	g indicator=Network Provided			
	Presentation restriction=restricted				
		signal derived from the P-Ass			
	if NOA	A is "national (significant) numb	per" then set to "NDC" + "SN"		
	If NOA	A is "international number" ther	n set to "CC"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asserte	ed-Identity: present			
	From: doe	es not contain a URI that enco	des an E.164 address		
	Privacy: ic	d			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
	100 Trying	<b>←</b>	` '		
		Apply post test	routine		

TP number	TP_401_012	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1			
Test Purpose name	INVITE received. From 'user'	header not present, P-Asse	erted-Identity present, Privacy value	
Test Purpose	Ensure that on receipt of	of an INVITE request the P-	Asserted-Identity is present and the	
	From header does not o	contain an URI that encodes	s an E.164 Address and a Privacy	
		'user', an INVITE with enca		
			ne address digits are derived from the	
			iction is set to 'presentation 'restricted'	
ISUP Parameter values	IAM: Calling party Nu	ımber		
	Number inco	mplete indicator=Complete		
	Numbering P	lan Indicator=ISDN/Teleph	ony (Recommendation E.164 [i.1])	
		dress Indicator		
			the CC of the country where MGCF is	
	located AND the next BICC/ISUP node is located in the same country then national (significant) number			
	else			
	international number Screening indicator=Network Provided Presentation restriction=restricted			
		al derived from the P-Ass		
			per" then set to "NDC" + "SN"	
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
SIP Parameter values		dentity: present		
		ot contain a URI that enco	des an E.164 address	
	Privacy: user			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>		
		Apply post test i	outine	

TP number	TP_401_013	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name	INVITE received. From header'	neader not present, P-Asse	erted-Identity present, Privacy value		
Test Purpose			Asserted-Identity is present and the		
	From header does not co	ontain an URI that encodes	s an E.164 Address and a Privacy		
		'header', an INVITE with ei			
			ne address digits are derived from the		
			iction is set to 'presentation 'restricted'		
ISUP Parameter values	IAM: Calling party Nu				
		nplete indicator=Complete			
			ony (Recommendation E.164 [i.1])		
		Iress Indicator			
			the CC of the country where MGCF is		
		located AND the next BICC/ISUP node is located in the same country then national (significant) number			
	else				
	international number Screening indicator=Network Provided Presentation restriction=restricted				
		al derived from the P-Ass			
			per" then set to "NDC" + "SN"		
SIP Parameter values			set to "CC"+" NDC"+"SN"		
oir rarameter values		lentity: present	dos an E 164 address		
	From: does not contain a URI that encodes an E.164 address				
Comments	Privacy: head	ei			
Message flows	SIP NNI	MGCF	SIP-I		
INICSSAYE HOWS	INVITE	MGCF →	→ INVITE (IAM)		
	100 Trying	<del>7</del>	TINVITE (IAIVI)		
	100 Hyling	<del>-</del>	routine		
	Apply post test routine				

TP number	TP_401_014	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1			
Test Purpose name		r present, P-Asserted-Identity p	present. Privacy header not	
	present, additional calling party number not omitted			
Test Purpose		NVITE request the P-Asserted-		
		that encodes an E.164 Addres	s a Privacy header is not	
	present, an INVITE with enca			
	A Calling party number parameter is present and the address digits are derived from the P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation			
		Party number is sent in a Gen		
		ed from the Userpart of the Front recent tion allowed	m neader the Presentation	
ISUP Parameter values	restriction indicator is set to 'p			
150P Parameter values	IAM: Calling party Number			
		e indicator= <i>Complete</i> dicator= <i>ISDN/Telephony (Rec</i> o	ommondation E 164 (i 11)	
	Nature of Address		ininendation E. 104 [i.1])	
		n the URI is equal to the CC of	the country where MGCF is	
		e next BICC/ISUP node is local		
		inificant) number	ica in the came country then	
	else			
	internationa	l number		
	Screening indicator	=Network Provided		
	Presentation restriction=allowed			
	Address signal derived from the P-Asserted-Identity			
	if NOA is "national (significant) number" then set to "NDC" + "SN"			
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
	Additional calling party number			
	Nature of Address Indicator			
	If CC encoded in the URI is equal to the CC of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then			
	national (signifi	cant) number		
	else	was be a se		
	international nu			
		e indicator=Complete dicator=ISDN/Telephony ( <i>Rec</i> o	ommondation E 164 [i 1]	
	Presentation restrict		irimendation E. 164 [i. 1])	
		=user provided not verified		
		ved from the 'From' header		
		nal (significant) number" then s	et to "NDC" + "SN"	
		national number" set to "CC"+'		
SIP Parameter values	INVITE: P-Asserted-Identity			
		RI that encodes an E.164 addr	ess	
	Privacy not present	t		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
-	INVITE	<b>→</b>	INVITE (IAM)	
	100 Trying		•	
		Apply post test routine		
	1	11 71		

TP number	TP_401_015	Reference	[1], clause 7.2.1	
ii iidiibei	11 _401_015	Kelerence	[2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/		12	
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1			
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'none',			
	additional calling party number not omitted			
Test Purpose		NVITE request the P-Asserted-I	dentity is present and the	
-		that encodes an E.164 Addres		
	encapsulated IAM is sent with	Privacy header is present set to	to 'none',	
	A Calling party number param	eter is present and the address	s digits are derived from the	
		e Presentation restriction indica		
		Party number is sent in a Gene		
		ed from the Userpart of the Fron	m header the Presentation	
	restriction indicator is set to 'p			
ISUP Parameter values	IAM: Calling party Number			
		e indicator=Complete		
	•	dicator=ISDN/Telephony (Reco	mmendation E.164 [i.1])	
	Nature of Address			
		n the URI is equal to the CC of		
		e next BICC/ISUP node is locat	ted in the same country then	
		nificant) number		
	else internationa	number		
		=Network Provided		
	Presentation restrict			
			ntity	
	Address signal <b>derived from the P-Asserted-Identity</b> if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is "international number" then set to "CC"+" NDC"+"SN"			
	Additional calling par		5 · 1.2 5 · 5.1	
	Nature of Address			
	If CC encoded in the URI is equal to the CC of the country where MGCF is			
		e next BICC/ISUP node is locat		
	national (signific	cant) number	•	
	else			
	international nu			
		indicator=Complete		
		dicator=ISDN/Telephony (Reco	mmendation E.164 [i.1])	
	Presentation restrict			
		=user provided not verified		
		ved from the 'From' header		
		nal (significant) number" then s		
		national number" set to "CC"+' I	NDC'+'SN'	
SIP Parameter values	INVITE: P-Asserted-Identity			
	From: contains a URI that encodes an E.164 address			
Comments	Privacy: none			
Comments	CID NINII	MCCE	CID I	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE		INVITE (IAM)	
	100 Trying			
		Apply post test routine		

TP number	TP_401_016	Reference	[1], clause 7.2.1	
Ti Tidilibei	11 _401_010	Reference	[2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/		7.2.0.1.2.0	
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1			
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'id',			
	additional calling party number not omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
	From header contains an UR	I that encodes an E.164 Addres	ss, an INVITE with	
		n Privacy header is present set		
		neter is present and the addres		
		e Presentation restriction indic		
		ng Party number is sent in a Ge		
		ed from the Userpart of the Fro	m header the Presentation	
	restriction indicator is set to 'p			
ISUP Parameter values	IAM: Calling party Numbe			
		e indicator=Complete		
	_	dicator=ISDN/Telephony (Rec	ommendation E.164 [i.1])	
	Nature of Address		f the country where MOOF is	
		in the URI is equal to the CC o		
		ne next BICC/ISUP node is loca	ited in the same country then	
	national (significant) number			
	else international number			
	Screening indicator=Network Provided			
	Presentation restriction=restricted			
	Address signal derived from the P-Asserted-Identity			
		onal (significant) number" then		
		rnational number" then set to "C		
	Additional calling party number			
	Nature of Address Indicator			
	If CC encoded in the URI is equal to the CC of the country where MGCF is			
	located AND th	e next BICC/ISUP node is loca	ated in the same country then	
	national (significant) number			
	else			
	international number			
	Number incomplete indicator=Complete			
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])			
	Presentation restriction=restricted			
		r=user provided not verified		
	Address digits derived from the 'From' header			
	if NOA is "national (significant) number" then set to "NDC" + "SN"			
CID Devementar values		rnational number" set to "CC"+	NDC+SN	
SIP Parameter values	INVITE: P-Asserted-Identity	y: present JRI that encodes an E.164 add	roop	
	Privacy: id	JRI that encodes an E. 164 add	ress	
Comments	Filvacy. iu			
Message flows	SIP NNI	MGCF	SIP-I	
messaye nows		→ WIGGF	INVITE (IAM)	
		<del>7</del>	HAVITE (IMIVI)	
	Too Trying	Apply post test routine		
		Apply post test routine		

TP number	TP_401_017	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'user',				
-	additional calling party number not omitted				
Test Purpose	Ensure that on receipt of an IN	IVITE request the P-Asserted-I	dentity is present and the		
		that encodes an E.164 Addres			
	encapsulated IAM is sent with				
	number parameter is present and the address digits are derived from the P-Asserted-				
		on restriction indicator is set to			
		r is sent in a Generic number p			
	signals are derived from the U		Presentation restriction		
	indicator is set to 'presentation	restricted'			
ISUP Parameter values	IAM: Calling party Number				
		indicator=Complete			
		licator=ISDN/Telephony (Reco	mmendation E.164 [i.1])		
	Nature of Address I		thtm		
		n the URI is equal to the CC of			
		e next BICC/ISUP node is locat	ed in the same country then		
		nificant) number			
	else international	number			
	Screening indicator=Network Provided Presentation restriction=restricted				
	Address signal derived from the P-Asserted-Identity				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
	Additional calling party number				
	Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else	·			
	international nui	mber			
		indicator=Complete			
		licator=ISDN/Telephony ( <i>Reco</i>	mmendation E.164 [i.1])		
	Presentation restric				
		user provided not verified			
		ved from the 'From' header			
		nal (significant) number" then s			
CID Dovomotor values		ational number" set to "CC"+' I	NDC + 2IV.		
SIP Parameter values	INVITE: P-Asserted-Identity:	present RI that encodes an E.164 addre			
		Ri that encodes an E.164 addr	ess		
Comments	Privacy: user				
Message flows	SIP NNI	MGCF	SIP-I		
message nows	INVITE -		INVITE (IAM)		
	100 Trying		HAVIIC (ICIVI)		
	100 Hyllig	Apply post test routine			
		Apply post test routille			

TP number	TP_401_018	Reference	[1], clause 7.2.1		
Ti Tidilibei	11 _401_010	Reference	[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header				
	'header', additional calling party number not omitted				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header contains an URI that encodes an E.164 Address, an INVITE with				
-					
	encapsulated IAM is sent Priva	acy header is present set to 'he	ader',		
	A Calling party number param	eter is present and the address	digits are derived from the		
	P-Asserted-Identity header the	Presentation restriction indica	tor is set to 'presentation		
	restricted'. An Additional callin	g Party number is sent in a Ge	neric number parameter and		
	the Address signals are derive	ed from the Userpart of the Fror	n header the Presentation		
	restriction indicator is set to 'pi	resentation restricted'			
ISUP Parameter values	IAM: Calling party Number				
		indicator=Complete			
	Numbering Plan Inc	dicator=ISDN/Telephony (Reco	mmendation E.164 [i.1])		
	Nature of Address I				
		n the URI is equal to the CC of			
		e next BICC/ISUP node is locat	ed in the same country then		
	national (sig	nificant) number			
	else				
	international				
	Screening indicator				
	Presentation restric		***		
		ved from the P-Asserted-Ide			
		nal (significant) number" then s			
		national number" then set to "Co	G"+" NDC"+"SN"		
	Additional calling par	-			
	Nature of Address I		the country where MCCE is		
		n the URI is equal to the CC of			
		e next BICC/ISUP node is locat	ed in the same country then		
	national (signific	ant) number			
	else international nui	mhor			
		indicator=Complete			
		dicator=ISDN/Telephony ( <i>Reco</i>	mmendation F 164 [i 1]		
	Presentation restric		mmendation E. 104 [I. 1])		
		=user provided not verified			
		ved from the 'From' header			
		nal (significant) number" then s	et to "NDC" + "SN"		
		national number" set to "CC"+' N			
SIP Parameter values	INVITE: P-Asserted-Identity				
		RI that encodes an E.164 addre	ess		
	Privacy: header				
Comments	,				
Message flows	SIP NNI	MGCF	SIP-I		
<b>.</b>	INVITE -		INVITE (IAM)		
1	100 Trying		– ()		
I		Apply post test routine			
		Apply poor tool routile			

TP number	TP_401_019	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,			
			7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	<b>'</b>	•			
Selection criteria	PICS 6.3.3/6 AND PICS	6.3.2/1				
Test Purpose name	INVITE received. From h	INVITE received. From header present, P-Asserted-Identity present. Privacy header not				
	present, additional calling					
Test Purpose			P-Asserted-Identity is present and the			
			164 Address a Privacy header is not			
		encapsulated IAM is sen				
			the address digits are derived from the			
			iction indicator is set to 'presentation			
		alling Party number para	meter is not present			
ISUP Parameter values	IAM: Calling party Nu					
		nplete indicator=Complet				
			hony (Recommendation E.164 [i.1])			
		lress Indicator				
			the CC of the country where MGCF is			
		ND the next BICC/ISUP n al (significant) number	ode is located in the same country then			
	else	,				
	interna	international number				
	Screening indicator=Network Provided					
	Presentation restriction=allowed					
	Address signal derived from the P-Asserted-Identity					
	if NOA is '	'national (significant) num	nber" then set to "NDC" + "SN"			
			en set to "CC"+" NDC"+"SN"			
SIP Parameter values		entity: present				
	From: contain	s a URI that encodes an	E.164 address			
	Privacy not pr	esent				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<b>→</b>	→ (INVITE) IAM			
	100 Trying	<b>←</b>				
		Apply post test	routine			

TP number	TP_401_020	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/	1			
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2	/1			
Test Purpose name	INVITE received. From heade	r present, P-Asserted-Identity	present. Privacy header 'none',		
	additional calling party number		,		
Test Purpose	Ensure that on receipt of an II	NVITE request the P-Asserted-	Identity is present and the		
		that encodes an E.164 Addres	ss a Privacy header is set to		
	'none', an INVITE with encaps	sulated IAM is sent.			
		eter is present and the addres			
		e Presentation restriction indica			
		Party number parameter is no	t present		
ISUP Parameter values	IAM: Calling party Number				
		e indicator=Complete			
		dicator= <i>ISDN/Telephony (Rec</i> o	ommendation E.164 [i.1])		
	Nature of Address				
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
		e next BICC/ISUP node is loca Inificant) number	ted in the same country then		
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=allowed				
	Address signal derived from the P-Asserted-Identity				
		<i>nal (significant) number"</i> then s			
		national number" then set to "C	C"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asserted-Identity				
	From: contains a U	RI that encodes an E.164 addr	ess		
	Privacy: none				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
		<b>→</b>	INVITE (IAM)		
	100 Trying	4			
		Apply post test routine			

TP number	TP_401_021	Reference	[1], clause 7.2.1		
	11 _401_021	Ttororonoo	[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/		7.2.0.1.2.0		
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2	/1			
Test Purpose name	L	r present, P-Asserted-Identity	oresent. Privacy header 'id'.		
	additional calling party number		, , , , , , , , , , , , , , , , , , , ,		
Test Purpose		NVITE request the P-Asserted-	Identity is present and the		
		that encodes an E.164 Addres			
	'id', an INVITE with encapsula		,		
	A Calling party number param	eter is present and the address	s digits are derived from the		
	P-Asserted-Identity header th	e Presentation restriction indica	ator is set to 'presentation		
	restricted'. An Additional callir	ng Party number parameter is r	ot present		
ISUP Parameter values	IAM: Calling party Number				
	Number incomplete	e indicator=Complete			
	Numbering Plan In	dicator=ISDN/Telephony (Reco	ommendation E.164 [i.1])		
	Nature of Address	Indicator			
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted				
	Address signal derived from the P-Asserted-Identity				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
		national number" then set to "C	C"+" NDC"+"SN"		
SIP Parameter values	<b>INVITE:</b> P-Asserted-Identity				
		RI that encodes an E.164 addr	ess		
	Privacy: id				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
		<b>→</b>	IAM		
	100 Trying	<del>(</del>			
		Apply post test routine			

TP number	TP_401_022	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2	2/1		
Test Purpose name	INVITE received. From head	er present, P-Asserted-Identity	present. Privacy header 'user',	
-	additional calling party number			
Test Purpose		NVITE request the P-Asserted		
		I that encodes an E.164 Addre	ss a Privacy header is set to	
	'user', an INVITE with encaps			
		neter is present and the addres		
		e Presentation restriction indic		
		ng Party number parameter is i	not present	
ISUP Parameter values	IAM: Calling party Numbe			
		e indicator=Complete		
		dicator=ISDN/Telephony (Rec	ommendation E.164 [i.1])	
	Nature of Address			
		in the URI is equal to the CC o		
		le next BICC/ISUP node is loca gnificant) number	ited in the same country then	
	else	,		
	internationa	al number		
	Screening indicator=Network Provided			
	Presentation restriction=restricted			
	Address signal derived from the P-Asserted-Identity			
	if NOA is "nation	onal (significant) number" then :	set to "NDC" + "SN"	
	If NOA is "inter	<i>mational number"</i> then set to "C	CC"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Identity	y: present		
	From: contains a U	JRI that encodes an E.164 add	ress	
	Privacy: user			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
		<b>→</b>	INVITE (IAM)	
	100 Trying	←		
		Apply post test routine		

TP number	TP_401_023	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.1,		
T00	1110 00/015 015/		7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header				
	'header', additional calling part				
Test Purpose	Ensure that on receipt of an IN				
	From header contains an URI		s a Privacy header is set to		
	'header', an INVITE with encar				
	A Calling party number parame				
	P-Asserted-Identity header the				
	restricted'. An Additional calling	g Party number parameter is n	ot present		
ISUP Parameter values	IAM: Calling party Number				
		indicator=Complete			
		licator=ISDN/Telephony (Reco	mmendation E.164 [i.1])		
	Nature of Address I				
		the URI is equal to the CC of			
		next BICC/ISUP node is loca	ted in the same country then		
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted				
		ved from the P-Asserted-Ide			
		nal (significant) number" then s			
		ational number" then set to "C	C"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asserted-Identity:				
	From: contains a URI that encodes an E.164 address				
	Privacy: header				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	<del>=</del>	INVITE (IAM)		
	100 Trying	•			
		Apply post test routine			

TP number	TP_401_024	R	eference		[1], clause 7.3.1
					[2], clauses 7.5.1,
					7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR	/			•
Selection criteria	PICS 6.3.2/1				
Test Purpose name	Calling party num	ber not received	d, Additional calling	g party nu	umber not received,
-	unavailable From	header is sent			
Test Purpose	Ensure that on re	ceipt of an INVI	TE with encapsula	ited IAM a	and no Calling party number
	and no Additional	I calling party nu	mber is present, a	ın INVITE	is sent. A P-Asserted-Identit
	is not present and	d the URI of the	From header is se	et to 'sip:u	navailable@unknown.invalid'
ISUP Parameter values	IAM: Calling pa	rty number not p	present		
	Generic n	umber (Addition	al calling party nur	nber) not	present
SIP Parameter values	<b>INVITE:</b> From:	sip:unavailable@	unknown.invalid		
	P-Asse	erted-Identity no	t present		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	<b>→</b>		<b>→</b>	INVITE
	, , ,			<b>←</b>	100 Trying
	Apply post test routine				

TP number	TP_401_025	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,
			7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR/	·	
Selection criteria	PICS 6.3.2/1		
Test Purpose name	Calling party number not reallowed, From header conti		rty number received presentation
Test Purpose	present and an Additional of	calling party number is presence. The URI of the From header is	IAM and no Calling party number is nt, an INVITE is sent. A P-Asserteds derived from the additional calling
ISUP Parameter values	IAM: Calling party number Generic number (Ac	•	r) present presentation allowed
SIP Parameter values	INVITE: From: derived from: P-Asserted-Iden		y number or network provided
Comments		-	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE (IAM) →		→ INVITE
			← 100 Trying
		Apply post test routi	ne

TP number	TP 401 026	Reference	[1], clause 7.3.1
	1		[2], clauses 7.5.1,
			7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR/		<u> </u>
Selection criteria	PICS 6.3.2/1		
Test Purpose name	Calling party number	not received, Additional calling	party number received presentation
	restricted, unavailable	e From header is sent	
Test Purpose			ted IAM and no Calling party number
			e Presentation restriction indicator is
	set to 'presentation re	estricted', an INVITE is sent. A	P-Asserted-Identity is not present and
	the URI of the From h	neader is set to 'sip:unavailable	e@unknown.invalid'
ISUP Parameter values	IAM: Calling party n	umber not present	
	Generic numb	er (Additional calling party nun	nber) present presentation restricted
SIP Parameter values	INVITE: From: sip:u	unavailable@unknown.invalid	
	P-Asserted	d-Identity not present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
	·		← 100 Trying
		Apply post test re	outine

TP number	TP_401_027	Reference	[1], clause 7.3.1 [2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1			
Test Purpose name	Calling party number received received, P-Asserted-Identity h			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values	IAM: Calling party number present presentation allowed Generic number (Additional calling party number) not present			
SIP Parameter values		he calling party number derived from the calling party r ivacy header not present	number	
Comments		•		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	, ,	<b>+</b>	100 Trying	
		Apply post test routine		

TP number	TP_401_028	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.1,		
			7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name			, Additional calling party number neader and From header are sent		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation allowed', an INVITE is sent.  A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the additional calling party number. A Privacy header is not present or if present the value is not equal to 'id'				
ISUP Parameter values		mber present presentation al (Additional calling party num	lowed nber) present presentation allowed		
SIP Parameter values	INVITE: From derived from the additional calling party number				
	P-Asserted-Identity derived from the additional calling party number				
	Privacy not 'id' or Privacy header not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE		
			← 100 Trying		
		Apply post test re	outine		

TP number	TP_401_029	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1			
Test Purpose name	Calling party number received received presentation restricte			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent.  A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values		resent presentation allowed onal calling party number) pre	esent presentation restricted	
SIP Parameter values	INVITE: From derived from t P-Asserted-Identity	he calling party number derived from the calling party rivacy header not present	•	
Comments		*		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

TP number	TP_401_030	Reference	[1], clause 7.3.1
			[2], clauses 7.5.1,
			7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.2/1		
Test Purpose name	Calling party number receive	d presentation restricted, Addition	onal calling party number not
	received, P-Asserted-Identity	header and From header are s	ent
Test Purpose	Ensure that on receipt of an	INVITE with encapsulated IAM a	and a Calling party number
		ator is set to 'presentation restric	
	party number is not present,	an INVITE is sent. A P-Asserted	I-Identity is present the URI is
	derived from the address sig	nals of the calling party number	and the URI of the From
	header is ser to 'sip:anonymous@anonymous.invalid'. A Privacy header is present the		
	value is equal to 'id'		
ISUP Parameter values	IAM: Calling party number	present presentation restricted	
	Generic number (Add	itional calling party number) not	present
SIP Parameter values	<b>INVITE:</b> From: sip:anonym	ous@anonymous.invalid	
	P-Asserted-Identity derived from the calling party number		
	Privacy: 'id'		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

TP number	TP_401_031	Reference	[1], clause 7.3.1 [2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/	·		
Selection criteria	PICS 6.3.2/1			
Test Purpose name			ed, Additional calling party number	
	received presentation al	llowed, P-Asserted-Identity	header and From header are sent	
Test Purpose			ated IAM and a Calling party number	
			tion restricted' and an Additional calling	
	1		n indicator is set to 'presentation	
	allowed', an INVITE is s			
	A P-Asserted-Identity is present the URI is derived from the address signals of the calling			
	party number and the URI of the From header is derived from the address signals of the			
	additional calling party number. A Privacy header is present the value is equal to 'id'			
ISUP Parameter values	0.	]		
			mber) present presentation allowed	
SIP Parameter values	INVITE: From derived from the additional calling party number			
	P-Asserted-Identity derived from the calling party number			
	Privacy: 'id'			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
			<ul><li>100 Trying</li></ul>	
		Apply post test	routine	

TP number	TP_401_032	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1		
Test Purpose name	Calling party number re	eceived presentation restricte	d, Additional calling party number	
	received presentation r	restricted, P-Asserted-Identity	header and From header are sent	
Test Purpose	Ensure that on receipt	of an INVITE with encapsula	ted IAM and a Calling party number	
			ion restricted' and an Additional calling	
			indicator is set to 'presentation	
	restricted', an INVITE is	s sent.		
		A P-Asserted-Identity is present the URI is derived from the address signals of the calling		
	party number and the URI of the From header is set to the value			
	'sip:anonymous@anonymous.invalid'. A Privacy header is present the value is equal to 'id'			
ISUP Parameter values	IAM: Calling party number present presentation restricted			
	Generic number (Additional calling party number) present presentation restricted			
SIP Parameter values	INVITE: From: sip:anonymous@anonymous.invalid			
	P-Asserted-	P-Asserted-Identity derived from the calling party number		
	Privacy: 'id'			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
		← 100 Trying		
		Apply post test routine		

TP number	TP_401_033	Reference	[1], clause 7.3.1 [2], clauses 7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1		
Test Purpose name		eceived presentation restricterived, From header is sent	d by the network, Additional calling	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted by the network' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to the value 'sip: unavailable @hostportion'. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values	IAM: Calling party number present presentation restricted by the network Generic number (Additional calling party number) not present			
SIP Parameter values	P-Asserted-	navailable@hostportion -Identity not present 'id' or Privacy header not pres	sent	
Comments	The 'hostportion' is implementation dependent			
Message flows	SIP-I INVITE (IAM)	MGCF → Apply post test ro	SIP NNI  → INVITE  ← 100 Trying	

TP number	TP 401 034	Reference	[1], clause 7.3.1	
i i iidiiibei	11 _401_004	Reference	[2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1		
Test Purpose name	Calling party number re-	ceived presentation restricte	d by the network, Additional calling	
	party number received p	presentation allowed, From h	eader is sent	
Test Purpose	Ensure that on receipt of	of an INVITE with encapsulat	ed IAM and a Calling party number	
			on restricted by the network' and an	
			ntation restriction indicator is set to	
	'presentation allowed', an INVITE is sent. A P-Asserted-Identity is not present and the URI			
		of the From header is derived from the address signals of the additional calling party		
		number. A Privacy header is not present or if present the value is not equal to 'id'		
ISUP Parameter values		mber present presentation re		
	Generic number	(Additional calling party num	ber) present presentation allowed	
SIP Parameter values		INVITE: From: derived from the additional calling party number		
	P-Asserted-Identity not present			
	Privacy not 'id' or Privacy header not present			
Comments		•		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	, ,		← 100 Trying	
		Apply post test ro	outine	

TP number	TP_401_035	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.2/1			
Test Purpose name	Calling party number received presentation restricted by the network, Additional calling party number received presentation restricted, From header is sent			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted by the network' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to the value 'sip: unavailable@hostportion'. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values	IAM: Calling party number present presentation restricted by the network Generic number (Additional calling party number) present presentation restricted			
SIP Parameter values	INVITE: From: sip: unavailab P-Asserted-Identity	ole@hostportion		
Comments	The 'hostportion' is implementa	ation dependent		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

## 6.3.2 Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)

TP number	TP_402_001	Reference	[1], clause 7.3.1
			[2], clause 7.5.2
TSS reference	IMS-SS/TIP-TIR/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	2	
Test Purpose name	INVITE is sent the supported h	eader contains the option tag '	from-change'
Test Purpose	Ensure that on receipt of an IN		
	Identity Request indicator in th		
	'requested', an INVITE is sent	and the Supported header con	tains the option tag 'from-
	change'		
ISUP Parameter values	IAM: Optional Forward Call Indicators		
	Connected Line Identity Request = requested		
SIP Parameter values	INVITE: Supported: from-change		
	INVITE (IAM): from-change tag not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<b>+</b>	100 Trying
	Apply post test routine		

TP_402_002	Reference	[1], clause 7.3.1	
		[2], clause 7.5.2	
IMS-SS/TIP-TIR/			
PICS 6.3.1/2 AND PICS 6.3.2/2			
'from-change' tag not i	from-change tag not included in a received provisional response		
Ensure that on receipt	of a provisional response an	nd the 'from-change' tag is not included	
the 200 OK INVITE wi	th encapsulated ANM is sent	as soon as the 200 OK (INVITE) is	
received			
IAM: Optional Forwa	ard Call Indicators		
Connected	Line Identity Request = requ	ested	
<b>180</b> : from-change tag not included in the Supported header			
INVITE (IAM) / 180 : from-change tag not present			
SIP-I	MGCF	SIP NNI	
INVITE (IAM)	<b>→</b>	→ INVITE	
180 Ringing (ACM)	<b>←</b>	<ul> <li>180 Ringing</li> </ul>	
<b>5 5</b> ,	<b>←</b>	← 200 OK (INVITE)	
` /	<b>→</b>	→ ACK	
7.0.1	<del>-</del>		
	IMS-SS/TIP-TIR/ PICS 6.3.1/2 AND PIC 'from-change' tag not Ensure that on receipt the 200 OK INVITE wi received IAM: Optional Forwa Connected INVITE: Supported: 180: from-change ta INVITE (IAM) / 180: f	IMS-SS/TIP-TIR/ PICS 6.3.1/2 AND PICS 6.3.2/2  'from-change' tag not included in a received provision of the 200 OK INVITE with encapsulated ANM is sent received  IAM: Optional Forward Call Indicators Connected Line Identity Request = requivalent in the Supported of the Suppor	

TP number	TP_402_003	Reference	[1], clause 7.3.1	
			[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.1/2 AND PICS	PICS 6.3.1/2 AND PICS 6.3.2/2		
Test Purpose name	'from-change' tag not inc	cluded in a received final re	sponse	
Test Purpose			se and the 'from-change' tag is not	
		VITE with encapsulated AN	IVI IS SENT	
ISUP Parameter values	IAM: Optional Forward			
	Connected Li	ine Identity Request = requ	ested	
SIP Parameter values	INVITE: Supported: from-change			
	200: from-change tag not included in the Supported header			
	INVITE (IAM) / 200: from-change tag not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM)	<b>→</b>	→ INVITE	
	180 Ringing (ACM)	<b>←</b>	← 180 Ringing	
	200 OK INVITE (ANM)	<b>←</b>	← 200 OK (INVITE)	
	ACK	<b>→</b>	→ ACK	
		Apply post test routine		

TP number	TP_402_004	Reference	[1], clause 7.3.1	
T00	IMO CO/TIP TIP/		[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/	0.000		
Selection criteria	PICS 6.3.1/2 AND PICS			
Test Purpose name		ed in a received provisiona		
Test Purpose	timer T <sub>TIR1</sub> is started. Th	Ensure that on receipt of a provisional response and the 'from-change' tag is included the timer T <sub>TIR1</sub> is started. The 200 OK INVITE with encapsulated ANM is sent as soon as the UPDATE request is received and a Generic number with a Number qualifier indicator set to		
		'additional connected number' is present. The additional connected number is coded as		
	Nature of Address In			
	ISUP node is loc	the country code of the cou ated in the same country, t nificant) number"	Intry where SUT is located AND the next hen set to	
	else set to	,		
	"international			
	Number Incomplete			
	E.164 [i.1])	, , ,	numbering plan (Recommendation	
			vacy_VA as indicate in table 6.3.2-1	
	Screening Indicator = user provided, not verified			
	Address Signals			
	If NOA is "national (significant) number" then set to NDC + SN.  If NOA is "international number" then set to CC + NDC + SN			
			ress signal are derived from the	
ISUP Parameter values	P-Asserted-Identity in U  IAM: Optional Forward			
SOF Farailleter values			astad	
	Connected Line Identity Request = requested  ANM: Connected number			
		<ul> <li>additional connected num</li> </ul>	her	
SIP Parameter values	INVITE: Supported: fro		1001	
on raramotor various	180: from-change tag included in the Supported header			
	INVITE (IAM) / 180: from-change tag not present			
Comments	(),	oago tag p. o		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	180 Ringing (ACM)	<del>-</del>	← 180 Ringing	
	roo ranging (room)	T <sub>TIR1</sub> started	€ 200 OK (INVITE)	
		· IIR1 started	→ ACK	
			7 ACK	
	200 OK INVITE (ANM)	4	<b>←</b> UPDATE	
	ACK	<b>←</b>	→ 200 OK (UPDATE)	
	ACIN		200 OR (OFDATE)	
		Apply post test	routine	

TP number	TP_402_005	Reference	[1], clause 7.3.1	
T00	IN 40, 00 /TID TID /		[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/2		
Test Purpose name	'from-change' tag included in			
Test Purpose	the timer T <sub>TIR1</sub> is started. The	Ensure that on receipt of a final successful response and the 'from-change' tag is included the timer T <sub>TIR1</sub> is started. The 200 OK IVITE with encapsulated ANM is sent as soon as the		
	UPDATE request is received and a Generic number with a Number qualifier indicator set to 'additional connected number' is present. The additional connected number is coded as			
	follows: Nature of Address Indicate	or.		
			where SUT is located AND the next	
		n the same country, then s		
	else set to	it) Hamber		
	"international numb	per"		
	Number Incomplete Indica	• • •		
			bering plan (Recommendation	
	E.164)	, , , , , ,	· · · ·	
	Address Presentation Res	tricted Indicator = Privacy	/_VA as indicate in table 6.3.2-1	
		Screening Indicator = user provided, not verified		
	Address Signals			
	If NOA is "national (significant) number" then set to NDC + SN.  If NOA is "international number" then set to CC + NDC + SN			
	In addition a Connected numb		signal are derived from the	
ICUD Devementes values	P-Asserted-Identity in UPDAT			
ISUP Parameter values	IAM: Optional Forward Call		٦	
	ANM: Connected number	entity Request = requested	J	
		tional connected number		
SIP Parameter values	INVITE: Supported: from-ch			
on rarameter values	200: from-change tag included in the Supported header			
	INVITE (IAM) / 200: from-change tag not present			
Comments	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →		→ INVITE	
	180 Ringing (ACM) ←		← 180 Ringing	
		T <sub>TIR1</sub> started	← 200 OK (INVITE)	
		TIIXI	→ ACK	
	200 OK INVITE (ANM)		<b>←</b> UPDATE	
	ACK →		→ 200 OK (UPDATE)	
		Apply post test routi	ne	
<u> </u>		: p.y poor toot loud		

Table 6.3.2-1: Mapping of Privacy value into Address presentation restriction indicator

Privacy_VA	Privacy value	Address Presentation Restricted Indicator
Privacy_VA_01	Header	Presentation restricted
Privacy_VA_02	User	Presentation restricted
Privacy_VA_03	None	Presentation allowed
Privacy_VA_04	Id	Presentation restricted
Privacy_VA_05	Privacy header not present	Presentation allowed

TP number	TP_402_006	Reference	[1], clause 7.3.1
			[2], clause 7.5.2
TSS reference	IMS-SS/TIP-TIR/		
Selection criteria	PICS 6.3.1/2 AND PICS	6 6.3.2/2	
Test Purpose name	Timer T <sub>TIR1</sub> expires		
Test Purpose			e 'from-change' tag is present in the xpiry of T <sub>TIR1</sub> the 200 OK INVITE with
	encapsulated ANM is se	ent	
ISUP Parameter values	IAM: Optional Forward		
	Connected L	ine Identity Request = reque	ested
	ANM: Connected number		
SIP Parameter values	INVITE: Supported: fr	om-change	
		included in the Supported h	neader
	INVITE (IAM) / 200: from	m-change tag not present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
_	INVITE (IAM)	<b>→</b>	→ INVITE
	180 Ringing (ACM)	<b>←</b>	← 180 Ringing
		T <sub>TIR1</sub> started	← 200 OK (INVITE)
		THE	→ ACK
			2 /1011
	200 OK INVITE (ANM)	← T <sub>TIR1</sub> expired	
	ACK	<b>→</b>	
		Apply post test re	outine

TP number	TP_402_007	Reference	[1], clause 7.2.1
			[2], clause 7.5.2
TSS reference	IMS-SS/TIP-TIR/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	2	
Test Purpose name	Interworking of SIP Supported	header into Optional forward c	all indicator
Test Purpose	Ensure that on receipt of an IN change' tag, an INVITE with er Request indicator in the Option	capsulated IAM is sent. The C	onnected Line Identity
ISUP Parameter values	IAM: Optional Forward Call In	ndicators	
	Connected Line Idea	ntity Request = requested	
SIP Parameter values	INVITE: Supported: from-change		
	INVITE (IAM): from-change tag	not present	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		
		Apply post test routine	

TP number	TP_402_008	Reference	[1], clause 7.2.1
TOO votoronos	IMC CC/TID TID/		[2], clause 7.5.2
TSS reference Selection criteria	IMS-SS/TIP-TIR/ PICS 6.3.1/2 AND PICS 6.3.2/	າ	
			on allowed into the Frem header in an
Test Purpose name	UPDATE request.	<u></u>	on allowed into the From header in an
Test Purpose	Ensure that on receipt of a 200 OK INVITE with encapsulated ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the 200 OK INVITE with encapsulated ANM copied into the From header as described below Generic number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation allowed then no Privacy header present or not "header" or not "user"  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used		
	Address Signals then m "international number" Map complete Connect portion of URI scheme Address Presentation restriction presentation allowed then m	ner"  Intry where the IWU is lap to user portion of led Number Address Sused in indicator header pre	located) to Connected Number URI scheme used Signals used prefixed with a "+" to user esent or not "header" or not "user"
ISUP Parameter values	Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  IAM: Optional forward call indicator		
SIP Parameter values  Comments	INVITE: Supported: from-change 200 OK: P-Asserted-Identity Supported: from-change UPDATE: From: <derived additional="" connected="" from="" number="" the=""> INVITE (IAM) / 200: from-change tag not present</derived>		
	CID NINI	MOOF	OID I
Message flows	SIP NNI INVITE → 180 Ringing ← 200 OK (INVITE)  UPDATE ← 200 OK (UPDATE)	MGCF Apply post test ro	SIP-I  → INVITE (IAM)  ← 180 Ringing (ACM)  ← 200 OK INVITE (ANM)  → ACK

TP number	TP_402_009	Reference	[1], clause 7.2.1 [2], clause 7.5.2
TSS reference	IMS-SS/TIP-TIR/	l .	16 17
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	2	
Test Purpose name	Mapping of Additional connecte an UPDATE request	ed number presentation re	stricted into the From header in
Test Purpose	Ensure that on receipt of a 200 OK INVITE with encapsulated ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described below Generic number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows		
	Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used  "international number"  Map complete Connected Number Address Signals used prefixed with a "+" to portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header		
ISUP Parameter values	Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  IAM: Optional forward call indicator Connected Line Identity Request = requested  ANM: Generic number additional connected number		
SIP Parameter values	INVITE: Supported: from-change 200 OK: P-Asserted-Identity Supported: from-change UPDATE: From: <derived additional="" connected="" from="" number="" the=""> P-Asserted-Identity: <derived connected="" from="" number="" the=""> INVITE (IAM) / 200: from-change tag not present</derived></derived>		
Comments			
Message flows	SIP NNI INVITE → 180 Ringing ← 200 OK (INVITE) ←  UPDATE ← 200 OK (UPDATE) →		SIP-I  → INVITE (IAM)  ← 180 Ringing (ACM)  ← 200 OK INMVITE (ANM)  → ACK

## 6.3.3 Communication Diversion (CDIV)

TP number	TP_403_001	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/5		
Test Purpose name	Mapping of 181 hi-targeted-to- ACM Redirection number	uri into 181 (Call Is Being	Forwarded) with encapsulated	
Test Purpose	Ensure that on receipt of 181 (	Call Is Being Forwarded)	an181 (Call Is Being Forwarded)	
	with encapsulated ACM is sen	t. The History-Info entry co	ontaining a cause parameter is	
	mapped into the Redirection n			
			de where the SUT is located:	
			ficant) number', '+' and the	
		from the digit string and se	ent in the Address signal of the	
	Redirection number.			
			ual the country code where the	
			'international number' '+' is	
ISUP Parameter values		ing and sent in the Addres	s signal of the Redirection number	
150P Parameter values	ACM: Generic Notification			
	call is diverting Redirection number			
	Nature of address indicator			
	Address signal			
	Derived from the last History-Info entry			
SIP Parameter values	181:			
	History-Info: <sip:any pro<="" th=""><th colspan="3">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></sip:any>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
		<sip:any proper="" uri;cause="any">; index=1.1</sip:any>		
	181 (ACM): History-Info not p	resent		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (ACM)			
		Apply post test routing	ie	

TP number	TP_403_002	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	<u> </u>	· · · ·	
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/5		
Test Purpose name		ed Privacy header into 181 (C direction number restriction	Call Is Being Forwarded) with	
Test Purpose	Ensure that on receipt of with encapsulated ACM	Ensure that on receipt of 181 (Call Is Being Forwarded), a 181 (Call Is Being Forwarded) with encapsulated ACM is sent.  The Redirection number restriction is set according the <b>escaped Privacy header</b> in the		
	last History entry as inc			
ISUP Parameter values		ber restriction= PRES_restr		
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
	181 (ACM): History-Info	o not present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	181 Call Is Being Forwarded (ACM)	<b>←</b>	← 181 Call Is Being Forwarded	
	. ,	Apply post test re	outine	

TP number	TP_403_003	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/5		
Test Purpose name	Mapping of 181 Privacy head Redirection number restriction		forwarded) with encapsulated ACM	
Test Purpose	with encapsulated ACM is se	Ensure that on receipt of 181 (Call Is Being Forwarded), a 181 (Call Is Being Forwarded) with encapsulated ACM is sent.  The Redirection number restriction is set according the <b>Privacy header</b> as indicated in		
	table 6.3.3-1	nction is set according the i	Frivacy fleader as indicated in	
ISUP Parameter values	<b>ACM:</b> Redirection number re	estriction= PRES_restr		
SIP Parameter values	181:			
	Privacy= <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>			
	181 (ACM): History-Info not	present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (ACM)			
		Apply post test routing	ne	

Table 6.3.3-1: Mapping of Privacy value into Redirection number restriction

CAUSE	Priv-value	PRES_restr
VA_01	history	Presentation restricted
VA_02	session	Presentation restricted
VA_03	header	Presentation restricted
VA_04	none or absent	Presentation allowed or absent

TP number	TP_403_004	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	·	·	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5		
Test Purpose name	Mapping of 181 Privac	y header into 181 (Call Is Be	eing Forwarded) with encapsulated ACM	
	Notification subscription	on options		
Test Purpose	Ensure that on receipt	of 181 (Call Is Being Forwar	ded) containing a Privacy header, a 181	
	(Call Is Being Forward	ed) with encapsulated ACM	is sent.	
	The Notification subsc	ription options in the Call Div	version Information parameter is set	
	according the Privacy	header in the message body	as indicated in table 6.3.3-2	
ISUP Parameter values	ACM: Call Diversion I	nformation		
	Notification	subscription options=SUBS_	_options	
SIP Parameter values	181:			
	Privacy: <b>Priv-value</b>	e		
	History-Info: <sip:< th=""><th colspan="3">History-Info: <sip:any proper="" uri;cause="any" value="">; index=1,</sip:any></th></sip:<>	History-Info: <sip:any proper="" uri;cause="any" value="">; index=1,</sip:any>		
		<sip:any proper="" uri="">; index=1.1</sip:any>		
	181 (ACM): History-Inf	fo <b>not present</b>		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	181 Call Is Being	<b>←</b>	← 181 Call Is Being Forwarded	
	Forwarded (ACM)		-	
	Apply post test routine			

Table 6.3.3-2: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	history	presentation not allowed
VA_02	session	presentation not allowed
VA_03	header	presentation not allowed
VA_04	None or absent	Presentation allowed with redirection number

TP number	TP_403_005	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/	·	
Selection criteria	PICS 6.3.1/2 AND PICS 6.	.3.2/5	
Test Purpose name	Mapping of 181 escaped F	Privacy header into 181 (Call	Is Being Forwarded) with
	encapsulated ACM Notifica	ation subscription options	
Test Purpose	Ensure that on receipt of 1	81 (Call Is Being Forwarded)	) containing an escaped Privacy
	header field in the last hi-ta	argeted-to-uri, a 181 (Call Is	Being Forwarded) with
	encapsulated ACM is sent		
			on Information parameter is set
	according the escaped Private	vacy header in the last Histor	ry entry as indicated in table 6.3.3-3
ISUP Parameter values	ACM: Call Diversion Infor		
	Notification subs	scription options= <b>SUBS_opt</b>	ions
SIP Parameter values	181:		
	History-Info: <sip:any< th=""><th>proper URI &gt;; index=1,</th><th></th></sip:any<>	proper URI >; index=1,	
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>		
	181 (ACM): History-Info no	ot present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	INVITE
	181 Call Is Being €	- <b>←</b>	181 Call Is Being Forwarded
	Forwarded (ACM)		•
	, ,	Apply post test rout	ine

Table 6.3.3-3: Mapping of Privacy value into Notification subscription options

CAUSE	Priv-value	SUBS_options
VA_01	history	presentation allowed without redirection number
VA_02	session	presentation allowed without redirection number
VA_03	header	presentation allowed without redirection number
VA 04	None or absent	Presentation allowed with redirection number

TP number	TP_403_006	Reference	[1], clause 7.3.1	
	112122		[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri into 181 (Call Is Being Forwarded) with encapsulated ACM Redirecting Reason			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 (Call Is Being Forwarded) with encapsulated ACM is sent. The cause parameter of the last hi-entry is mapped into the Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.3.3-4			
ISUP Parameter values	ACM: Generic Notification call is diverting Redirection number Call Diversion Information Redirecting reason = Redirecting_Reason			
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments		•		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	181 Call Is Being Forwarded (ACM)	<b>←</b>	← 181 Call Is Being Forwarded	
	Apply post test routine			

Table 6.3.3-4: Mapping of cause parameter into Redirecting reason

CAUSE	CAUSE_value	Redirecting_Reason
VA_01	404	Unknown
VA_02	302	Unconditional
VA_03	486	User busy
VA_04	408	No reply
VA_05	480	Deflection immediate
VA_06	503	Mobile subscriber not reachable
VA 07	487	Deflection during alerting

TP number	TP_403_007	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.7	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.5/3 AND PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri cause parameter into 181 Call Is Being Forwarded with			
	encapsulated CPG Event indicator			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 (Call Is Being Forwarded)			
	with encapsulated CPG is sent. The Event indicator is set to 'Redirecting_Reason' as			
	indicated in table 6.3.3-5			
ISUP Parameter values	CPG: Event=Redirecting_Reason			
	Generic Notification			
	call is diverting			
	Redirection number			
	Call Diversion Information			
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></pre>			
	181 (CPG): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	180 Ringing (ACM) ←	<b>←</b>	180 Ringing	
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (CPG)			
	Apply post test routine			

Table 6.3.3-5: Mapping of cause parameter into Event indicator

	CAUSE_value	Redirecting_Reason
VA_01	486	CFB (national use)
VA_02	408	CFNR (national use)
VA 03	302	CFU (national use)

TP number	TP_403_008	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri into 181 Call Is Being Forwarded with encapsulated CPG Redirection number			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 (Call Is Being Forwarded) with the encapsulated CPG is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:  • If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the			
	Redirection number.  • If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number			
ISUP Parameter values	CPG: Generic Notification call is diverting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry			
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) 180 Ringing (ACM) 181 Call Is Being Forwarded (CPG)  →	→ ← ← Apply post test routin	INVITE 180 Ringing 181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP 403 009		Reference	[1], clause 7.3.1
	11 _ 100_00			[2], clauses 7.5.4.2.1,
				table, 7.5.4.2.1.3
T00 f	IMO 00/0DIV//			table, 7.5.4.2.1.5
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped Privacy header into 181 Call Is Being Forwarded with			
	encapsulated CPG Redirection number restriction			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), a 181 (Call Is Being Forwarded)			
	with encapsulated CPG is sent.			
	The Redirection number restriction is set according the <b>escaped Privacy header</b> in the			
ICUD Danamatanashara	last History entry as indicated in table 6.3.3-1			
ISUP Parameter values	CPG: Redirection number restriction = PRES_restr			
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
	181 (CPG): History-Info not present			
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE
	180 Ringing (ACM)	<b>←</b>	<b>←</b>	
	181 Call Is Being	È	<u>+</u>	
		•	~	181 Call Is Being Forwarded
	Forwarded (CPG)			
	Apply post test routine			

TP number	TP_403_010	Re	eference	[1], clause 7.3.1	
				[2], clauses 7.5.4.2.1,	
				table, 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			·	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5			
Test Purpose name	Mapping of 181 Privac	y header in	to early 181 Call Is Be	eing Forwarded with encapsulated	
	CPG Redirection numb	er restriction	on		
Test Purpose	Ensure that on receipt	of 181 (Cal	II Is Being Forwarded)	, a 181 Call Is Being Forwarded	
	with encapsulated CPC				
	The Redirection number	er restrictio	n is set according the	Privacy header as indicated in	
	table 6.3.3-1.				
ISUP Parameter values	CPG: Redirection nun	nber restric	tion = <b>PRES_restr</b>		
SIP Parameter values	181:				
	Privacy= <b>Priv-value</b>	•			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
	181 (CPG): History-Info not present				
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
	180 Ringing (ACM)	←	<b>←</b>	180 Ringing	
	181 Call Is Being	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (CPG)			-	
	Apply post test routine				

TP number	TP_403_011	l c	Reference	[1] clause 7.3.1	
i F ilulibei	117_403_011		Kelefelice	[1], clause 7.3.1	
				[2], clauses 7.5.4.2.1,	
				table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5			
Test Purpose name	Mapping of 181 Priva	cy header i	nto 181 Call Is Being	g Forwarded with encapsulated CPG	
	Notification subscription	on options			
Test Purpose	Ensure that on receip	t of 181 (C	all Is Being Forwarde	ed) containing a Privacy header, a 181	
-	(Call Is Being Forward	ded) with e	ncapsulated CPG is	sent.	
				sion Information parameter is set	
				s indicated in table 6.3.3-2	
ISUP Parameter values	CPG: Call Diversion Information				
	Notification	Notification subscription options=SUBS_options			
SIP Parameter values	181:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
	181 (CPG): History-Info not present				
Comments		_			
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	=	<b>→</b> INVITE	
	180 Ringing (ACM)	<b>←</b>	•	► 180 Ringing	
	181 Call Is Being	<b>←</b>	•	181 Call Is Being Forwarded	
	Forwarded (CPG)				
	Apply post test routine				

TP number	TP_403_012	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.1,		
			table, 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	·			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	2/5			
Test Purpose name	Mapping of 181 escaped Pri encapsulated CPG Notification		s Being Forwarded with		
Test Purpose	Ensure that on receipt of 18	(Call Is Being Forwarded)	containing an escaped Privacy		
	header field in the last hi-tar	geted-to-uri, a 181 Call Is B	Being Forwarded with encapsulated		
	CPG is sent.		-		
			on Information parameter is set		
			ry entry as indicated in table 6.3.3-3		
ISUP Parameter values	CPG: Call Diversion Information				
	Notification subscription options=SUBS_options				
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
	181 (CPG): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	180 Ringing (ACM) ←	<b>←</b>			
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded		
	Forwarded (CPG)				
	Apply post test routine				

TP number	TP_403_013		Reference	[1], clause 7.3.1		
ir number	1F_403_013		Reference	[1], clause 7.5.1 [2], clauses 7.5.4.2.1,		
TCC reference	IMO 00/0DIV//			table, 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	00 00 0/5				
Selection criteria	PICS 6.3.1/2 AND PI					
Test Purpose name	Mapping of 181 hi-tar Redirecting Reason	rgeted-to-u	ri into 181 Call Is Being	Forwarded with encapsulated CPG		
Test Purpose	Ensure that on receip encapsulated CPG is	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 Call Is Being Forwarded with encapsulated CPG is sent. The History-Info entry containing a cause parameter is mapped into the Redirecting reason in the Call Diversion Information parameter is set as indicated				
ISUP Parameter values		CPG: Generic Notification				
	call is dive					
	Redirection nu					
		Call Diversion Information				
		Redirecting reason= Redirecting_Reason				
SIP Parameter values	181:	9	<b></b>			
	History-Info: <sir< th=""><th colspan="5">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></sir<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
			er URI;cause=CAUSE_	value>; index=1.1		
	181 (CPG): History-Ir			,		
Comments		<u> </u>				
Message flows	SIP-I		MGCF	SIP NNI		
J	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE		
	180 Ringing (ACM)	<b>←</b>	<b>←</b>	180 Ringing		
	181 Call Is Being Forwarded (CPG)	<del>(</del>	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine					

TP number	TP_403_014	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.1,		
			table, 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	_			
Test Purpose name	Mapping of 180 hi-targeted-to- number	uri into a 180 (Ringing) with	encapsulated ACM Redirection		
Test Purpose	Ensure that on receipt of 180 (Ringing) a 180 (Ringing) with encapsulated ACM (subscriber free) is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number:  • If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.				
	<ul> <li>If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number</li> </ul>				
ISUP Parameter values	ACM: Backward call indicator				
	Called party status=subscriber free				
	Generic Notification				
	call is diverting				
	Redirection number				
	Nature of address	indicator			
	Address signal				
		e last History-Info entry			
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>				
	180 (ACM): History-Info not p	resent			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →		IVITE		
	180 Ringing (ACM) ←		30 Ringing		
	Apply post test routine				

TP number	TP 403 015	Reference	[1], clause 7.3.1		
	11 _ 100_010	110.0.0.0	[2], clauses 7.5.4.2.1,		
			table, 7.5.4.2.1.3		
TCC reference	IMO CO/ODIV//		table, 7.5.4.2.1.5		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND F	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 esc Redirection number		(Ringing) with encapsulated ACM		
Test Purpose	Ensure that on rece	ipt of 180 (Ringing), a 180 (Ring	ging) with encapsulated ACM		
rest i dipose	(subscriber free) is		ging) with cheapstrated / tow		
	,		the account Drivery header in the		
		•	the escaped Privacy header in the		
		last History entry as indicated in table 6.3.3-1			
ISUP Parameter values	ACM: Backward call indicator				
	Called party status=subscriber free				
	Redirection number restriction= PRES_restr				
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	_		Privacy= <b>Priv-value</b> >; index=1.1		
			Tivacy - Tiv-value, index-1.1		
Commonto	180 (ACM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	<b>→</b>	→ INVITE		
	180 Ringing (ACM)	<b>←</b>	← 180 Ringing		
	Apply post test routine				
1		Apply post test i	Vatility		

TP number	TP_403_016	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,			
			table, 7.5.4.2.1.3			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5				
Test Purpose name	Mapping of 180 Privace number restriction	Mapping of 180 Privacy header into a 180 (Ringing) with encapsulated ACM Redirection number restriction				
Test Purpose	Ensure that on receipt of 180 (Ringing), a 180 (Ringing) with encapsulated ACM (subscriber free) is sent.  The Redirection number restriction is set according the <b>Privacy header</b> as indicated in table 6.3.3-1					
ISUP Parameter values	ACM: Backward call indicator Called party status=subscriber free Redirection number restriction= PRES restr					
SIP Parameter values		:any proper URI>; index= :any proper URI;cause=a				
Comments		-				
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	<b>→</b>	→ INVITE			
	180 Ringing (ACM)	<b>←</b>	← 180 Ringing			
	Apply post test routine					

TP 403 017	Reference	[1], clause 7.3.1			
11 _ 100_017	Reference	[2], clauses 7.5.4.2.1,			
		table, 7.5.4.2.1.4			
IMS-SS/CDIV/		table, 1.3.4.2.1.4			
	5 6.3.2/5				
		g) with encapsulated ACM Notification			
subscription options					
		a Privacy header, a 180 (Ringing) with			
according the Privacy I	header in the message boo	dy as indicated in table 6.3.3-2			
ACM: Backward call indicator					
Called party	status=subscriber free				
Generic Notifica	tion				
call is diverting	call is diverting				
Call Diversion In	nformation				
Notification subscription options=SUBS_options					
180:					
Privacy: <b>Priv-value</b>					
History-Info: <sip:a< th=""><th>any proper URI&gt;; index=1,</th><th></th></sip:a<>	any proper URI>; index=1,				
		value>; index=1.1			
	•				
SIP-I	MGCF	SIP NNI			
INVITE (IAM)	<b>→</b>	→ INVITE			
, ,	<b>←</b>	← 180 Ringing			
3 3 ( =)	Apply post test	0 0			
	Mapping of 180 Privacy subscription options  Ensure that on receipt of encapsulated ACM (sul The Notification subscraccording the Privacy ACM: Backward call in Called party Generic Notification is divertical Diversion In Notification is 180:  Privacy: Priv-value History-Info: <sip: <sip-180="" <sip:="" a="" sip-i<="" th=""  =""><th>IMS-SS/CDIV/  PICS 6.3.1/2 AND PICS 6.3.2/5  Mapping of 180 Privacy header into a 180 (Ringing subscription options  Ensure that on receipt of 180 (Ringing) containing encapsulated ACM (subscriber free) is sent.  The Notification subscription options in the Call Diraccording the <b>Privacy header</b> in the message body  <b>ACM:</b> Backward call indicator  Called party status=subscriber free  Generic Notification  call is diverting  Call Diversion Information  Notification subscription options=<b>SUBS</b>  180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri="">; index=1, <sip:any (acm):="" (iam)<="" 180="" cause="any" history-info="" invite="" mgcf="" not="" present="" proper="" sip-i="" th="" uri;=""></sip:any></sip:any></th></sip:>	IMS-SS/CDIV/  PICS 6.3.1/2 AND PICS 6.3.2/5  Mapping of 180 Privacy header into a 180 (Ringing subscription options  Ensure that on receipt of 180 (Ringing) containing encapsulated ACM (subscriber free) is sent.  The Notification subscription options in the Call Diraccording the <b>Privacy header</b> in the message body <b>ACM:</b> Backward call indicator  Called party status=subscriber free  Generic Notification  call is diverting  Call Diversion Information  Notification subscription options= <b>SUBS</b> 180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri="">; index=1, <sip:any (acm):="" (iam)<="" 180="" cause="any" history-info="" invite="" mgcf="" not="" present="" proper="" sip-i="" th="" uri;=""></sip:any></sip:any>			

TP number	TP_403_018	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.1,		
			table, 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5			
Test Purpose name	Mapping of 181 escaped Priv	, ,	ng) with encapsulated ACM		
	Notification subscription option				
Test Purpose			aped Privacy header field in the		
	last hi-targeted-to-uri, a 180 (				
	The Notification subscription				
	according the escaped Priva	cy header in the last History	entry as indicated in		
	table 6.3.3-3				
ISUP Parameter values	ACM: Backward call indicator				
	Called party status=subscriber free				
	Generic Notification				
	call is diverting				
	Call Diversion Information				
	Notification subscription options=SUBS_options				
SIP Parameter values	180:				
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>				
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
	180 (ACM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b> 1	NVITE		
	180 Ringing (ACM) ←	← 1	180 Ringing		
		Apply post test routine	•		

TP number	TP_403_019	Reference	[1], clause 7.3.1		
i F number	11-403_019	Reference			
			[2], clauses 7.5.4.2.1,		
			table, 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5			
Test Purpose name	Mapping of 180 hi-targ Reason	eted-to-uri into a 180 (Ringin	g) with encapsulated ACM Redirecting		
Test Purpose	Ensure that on receipt	of 180 (Ringing) a 180 (Ringi	ing) with encapsulated ACM (subscriber		
	free) is sent. The last I	History-Info entry containing a	cause parameter is mapped into the		
	Redirecting reason in t	he Call Diversion Information	parameter is set as indicated in		
	table 6.3.3-4				
ISUP Parameter values	ACM: Backward call indicator				
	Called party	status=subscriber free			
	call is diverting				
	Redirection number				
	Call Diversion Information				
	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:	<u> </u>			
	History-Info: <sip:any proper="" uri;cause="&lt;b">CAUSE_value&gt;; index=1,</sip:any>				
	,	any proper URI>; index=1.1	<u> </u>		
	180 (ACM): History-Info not present				
Comments	res (rem): metery min	p. 600			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	, ,	É			
	- 100 1 9 9				
	Apply post test routine				

TP number	TP_403_020	Reference	[1], clause 7.3.1			
			[2], clauses 7.5.4.2.1,			
			table, 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5				
Test Purpose name	Mapping of 180 hi-targeted-to- number	uri into a 180 (Ringing) w	ith encapsulated CPG Redirection			
Test Purpose	Ensure that on receipt of 180 (Ringing) a 180 (Ringing) with encapsulated CPG Alerting is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number:					
	<ul> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:         Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.     </li> </ul>					
	• If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number					
ISUP Parameter values	CPG: Event=Alerting					
	Generic Notification					
	call is diverting					
	Redirection number					
	Nature of address indicator					
	Address signal					
	Derived from the last History-Info entry					
SIP Parameter values	180:					
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>					
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>					
	180 (CPG): History-Info not pr	resent				
Comments			212 21111			
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	<b>→</b>	INVITE			
	181 Call Is Being ←	+	181 Call Is Being Forwarded			
	Forwarded (ACM)	۔				
	180 Ringing (CPG) ←	<b>←</b>	180 Ringing			
		Apply post test routi	ne			

TP number	TP 403 021	Reference	[1], clause 7.3.1			
	1		[2], clauses 7.5.4.2.1,			
			table, 7.5.4.2.1.3			
TSS reference	IMS-SS/CDIV/	<b>,</b>	,			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5				
Test Purpose name	Mapping of 180 escar	oed Privacy header into	a 180 (Ringing) with encapsulated CPG			
	Redirection number re	estriction				
Test Purpose	Ensure that on receip	t of 180 (Ringing), a 18	0 (Ringing) with encapsulated CPG Alerting is			
	sent.					
	The Redirection number	The Redirection number restriction is set according the escaped Privacy header in the				
		ndicated in table 6.3.3-	1			
ISUP Parameter values	CPG: Event=Alerting					
	Redirection nu	mber restriction= PRE	S_restr			
SIP Parameter values	180:					
	History-Info: <sip< th=""><th>any proper URI&gt;; inde</th><th>ex=1,</th></sip<>	any proper URI>; inde	ex=1,			
	<sip< th=""><th>:any proper URI;cause</th><th>=any?<i>Privacy=<b>Priv-value</b></i>&gt;; index=1.1</th></sip<>	:any proper URI;cause	=any? <i>Privacy=<b>Priv-value</b></i> >; index=1.1			
	180 (CPG): History-In	fo not present				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	<b>→</b>	→ INVITE			
	181 Call Is Being	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>			
	Forwarded (ACM)		Č			
	180 Ringing (CPG)	<b>←</b>	← 180 Ringing			
		Apply post test routine				

TP number	TP_403_022	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/	<u> </u>	,
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5	
Test Purpose name	Mapping of 180 Privacy head	ler into CPG Redirection nu	umber restriction
Test Purpose	Ensure that on receipt of 180 (Ringing), a 180 Ringing with encapsulated CPG Alerting is		
	sent.		
	The Redirection number rest	riction is set according the	Privacy header as indicated in
	table 6.3.3-1		
ISUP Parameter values	CPG: Event=Alerting		
	Redirection number re	estriction= PRES_restr	
SIP Parameter values	180:		
	Privacy= <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>		
	180 (CPG): History-Info not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded
	Forwarded (ACM)		_
	180 Ringing ←	<b>←</b>	180 Ringing
	(CPG-Ringing)		5 5
		Apply post test routi	ne

TP number	TP_403_023	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of 180 Privacy heade	r into CPG Notification sub	oscription options
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a 180 Ringing with		
	encapsulated CPG Alerting is s		
	The Notification subscription of		
	according the <b>Privacy header</b>	in the message body as ir	ndicated in table 6.3.3-2
ISUP Parameter values	CPG: Event=Alerting		
	Generic Notification		
	call is diverting		
	Call Diversion Information		
	Notification subscrip	tion options=SUBS_option	ons
SIP Parameter values	180:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>		
	180 (CPG): History-Info not pr	esent	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	181 Call Is Being ←	<del>-</del>	181 Call Is Being Forwarded
	Forwarded (ACM)		-
	180 Ringing (CPG) ←	<del>-</del>	180 Ringing
		Apply post test routin	

TP number	TP_403_024	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.1, table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	<u>l</u>	table, Fig. 1121111	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notific	ation subscription options	
Test Purpose	Ensure that on receipt of 180 (	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the		
	last hi-targeted-to-uri, a 180 (R	inging) with encapsulated	CPG Alerting is sent.	
	The Notification subscription o	ptions in the Call Diversion	Information parameter is set	
	according the escaped Privac	y header in the last Histor	y entry as indicated in	
	table 6.3.3-3			
ISUP Parameter values	CPG: Event=Alerting			
	Generic Notification			
	call is diverting			
	Call Diversion Information			
	Notification subscription options=SUBS_options			
SIP Parameter values	180:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
	180 (CPG): History-Info not pr	esent		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
	181 Call Is Being ←	<b>←</b>	181 Call Is Being Forwarded	
	Forwarded (ACM)			
	180 Ringing ←	<b>←</b>	180 Ringing	
	(CPG - Alerting)			
		Apply post test routing	e	

TP number	TP 403 025	Reference	[1], clause 7.3.1
	1		[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		1
Selection criteria	PICS 6.3.1/2 AND PICS 6	6.3.2/5	
Test Purpose name	Mapping of 180 hi-targete	ed-to-uri into CPG Redire	ecting Reason
Test Purpose	Ensure that on receipt of 180 (Ringing) a 180 (Ringing) with encapsulated CPG Alerting is		
	sent. The last History-Info	entry containing a caus	e parameter is mapped into the
	Redirecting reason in the	Call Diversion Informati	on parameter is set as indicated in
	table 6.3.3-4		
ISUP Parameter values	CPG: Event=Alerting		
	Generic Notification	••	
	call is diverting		
	Redirection number	••	
	Call Diversion Information		
	Redirecting reason= Redirecting_Reason		
SIP Parameter values	180:		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></pre>		
	180 (CPG): History-Info n	ot present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
		<del>)</del>	→ INVITE
		←	<ul> <li>181 Call Is Being Forwarded</li> </ul>
	Forwarded (ACM)		
		←	← 180 Ringing
	(CPG - Alerting)		
		Apply post test	routine

Selection criteria Test Purpose name Test Purpose	Ensure that on receipt of containing a cause parar	rgeted-to-uri into ANM Redire f 200 OK (INVITE) an ANM is:		
Selection criteria Test Purpose name Test Purpose	PICS 6.3.1/2 AND PICS Mapping of 200 OK hi-ta Ensure that on receipt of containing a cause parar	rgeted-to-uri into ANM Redire f 200 OK (INVITE) an ANM is:	ction number	
Selection criteria Test Purpose name Test Purpose	PICS 6.3.1/2 AND PICS Mapping of 200 OK hi-ta Ensure that on receipt of containing a cause parar	rgeted-to-uri into ANM Redire f 200 OK (INVITE) an ANM is:		
Test Purpose name Test Purpose	Mapping of 200 OK hi-ta Ensure that on receipt of containing a cause parar	rgeted-to-uri into ANM Redire f 200 OK (INVITE) an ANM is:		
Test Purpose	Ensure that on receipt of containing a cause parar	f 200 OK (INVITE) an ANM is:		
	containing a cause parar		sent. The last History-Into entry	
	14 00 -4 46 - 6: 4-4-4	Ensure that on receipt of 200 OK (INVITE) an ANM is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number:		
	If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:     Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.			
	<ul> <li>If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number</li> </ul>			
ISUP Parameter values	ANM: Redirection numb	, , ,		
	Nature of address indicator			
	Address signal			
	Derived from the last History-Info entry			
SIP Parameter values				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
			ue>; index=1.1	
	200 (ANM): History-Info	not present		
	CID I	МООГ	CID NINII	
-				
	` ,			
			181 Call is Being Forwarded	
		<b>4</b>	180 Ringing	
			5 5	
	, ,		200 011111112	
	,,,,,,,	Apply post test rout		
SIP Parameter values  Comments  Message flows	ANM: Redirection number Nature of add Address sign Derived from 200:  History-Info: <sip:ar< th=""><th>or dress indicator hall om the last History-Info entry hy proper URI&gt;; index=1, ny proper URI; cause=any valuation present  MGCF</th><th>SIP NNI INVITE 181 Call Is Being Forwarded 180 Ringing 200 OK INVITE ACK</th></sip:ar<>	or dress indicator hall om the last History-Info entry hy proper URI>; index=1, ny proper URI; cause=any valuation present  MGCF	SIP NNI INVITE 181 Call Is Being Forwarded 180 Ringing 200 OK INVITE ACK	

TP number	TP 403 027	Reference	[1], clause 7.3.1
Ti mamber	11 _400_021	Reference	[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/		table, 7.5.4.2.1.3
		2 2 2 2 5	
Selection criteria	PICS 6.3.1/2 AND PICS		
Test Purpose name			M Redirection number restriction
Test Purpose	Ensure that on receipt of 200 (INVITE), a 200 OK INVITE (ANM) with encapsulated ANM is		
	sent.		
	The Redirection numbe	r restriction is set accordi	ng the <b>escaped Privacy header</b> in the
	last History entry as ind	icated in table 6.3.3-1	
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr		
SIP Parameter values	200 OK:		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>		
	200 (ANM): History-Info not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
	181 Call Is Being	<b>←</b>	← 181 Call Is Being Forwarded
	Forwarded (ACM)		3
	180 Ringing (CPG)	<b>←</b>	← 180 Ringing
	200 OK INVITE (ANM)	<del>`</del>	€ 200 OK INVITE
	ACK	<b>→</b>	→ ACK
	ACK	=	2 /1011
		Apply post tes	troutine

TP number	TP 403 028	Reference	[1], clause 7.3.1
	100_020	1.0.0.0.00	[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/	<u> </u>	1000.0, 1101.112.110
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/5	
Test Purpose name	Mapping of 200 Privacy	header into 200 OK INVIT	E (ANM) with encapsulated ANM
	Redirection number rest	riction	
Test Purpose	Ensure that on receipt o	f 200 OK (INVITE), a200 (	OK INVITE (ANM) with encapsulated
	ANM is sent.		
	The Redirection number	r restriction is set accordin	g the <b>Privacy header</b> as indicated in
	table 6.3.3-1		
ISUP Parameter values	ANM: Redirection numl	per restriction= PRES_res	tr
SIP Parameter values	200 OK:		
	Privacy= <b>Priv-value</b>		
	History-Info: <sip:a< th=""><th>ny proper URI&gt;; index=1,</th><th></th></sip:a<>	ny proper URI>; index=1,	
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>		
	200 (ANM): History-Info not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
	181 Call Is Being	<b>←</b>	← 181 Call Is Being Forwarded
	Forwarded (ACM)		· ·
	180 Ringing (CPG)	<b>←</b>	← 180 Ringing
	200 OK INVITE (ANM)	<b>←</b>	← 200 OK INVITE
	ACK	<b>→</b>	→ ACK
		Apply post test	routine

TP number	TP 403 029	Reference	[1], clause 7.3.1
	00_0_0	1101010100	[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/	1	,
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/5	
Test Purpose name	Redirection number	`	TE) with encapsulated CON
Test Purpose	Ensure that on receipt of 200 OK (INVITE) a 200 OK (INVITE) with encapsulated CON is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:  • If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:		
	Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.		
	• If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number		
ISUP Parameter values	CON: Redirection number		
	Nature of addre		
	Address signal		
	Derived from the last History-Info entry		
SIP Parameter values		proper URI;cause=any valu	ne ; index=1.1
Comments	200 (CON): History-Info no	n present	
Message flows	SIP-I	MGCF	SIP NNI
message news	INVITE (IAM)		INVITE
	200 OK INVITE (CON)		200 OK INVITE
	ACK -		ACK
		Apply post test rout	ine

TP number	TP_403_030	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/		-	
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/5		
Test Purpose name	Mapping of 200 escaped Privacy header into 200 OK (INVITE) with encapsulated CON Redirection number restriction			
Test Purpose	Ensure that on receipt of 200 (INVITE), a 200 OK (INVITE) with encapsulated CON is sent. The Redirection number restriction is set according the <b>escaped Privacy header</b> in the last History entry as indicated in table 6.3.3-1			
ISUP Parameter values	CON: Redirection number	per restriction= PRES_re	estr	
SIP Parameter values	200 OK:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	· ·	<i>7</i> 1 1 '	y value? <i>Privacy=<b>Priv-value</b>&gt;</i> ; index=1.1	
	200 (CON): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	200 OK INVITE (CON)	<b>←</b>	← 200 OK INVITE	
	ACK	<b>→</b>	→ ACK	
		Apply post test routine		

TP number	TP_403_031	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/5	
Test Purpose name	Mapping of 200 Privacy header into 200 OK (INVITE) with encapsulated CON Redirection number restriction		
Test Purpose	Ensure that on receipt of 200 OK (INVITE), a 200 OK (INVITE) with encapsulated CON is sent.  The Redirection number restriction is set according the <b>Privacy header</b> as indicated in table 6.3.3-1		
ISUP Parameter values	CON: Redirection numb	er restriction= PRES_restr	
SIP Parameter values	200 OK: Privacy= <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>		
	200 (CON): History-Info	not present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→ →</b>	INVITE
	200 OK INVITE (CON)	<b>+ +</b>	200 OK INVITE
	ACK `´	<b>→</b> →	ACK
		Apply post test rout	tine

TP number	TP_403_032	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.2,
			table, 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of Redirecting numbe		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting		
	number parameter, an Original		
			neader is present. The value of
	the second last hi-targeted-to-u		
	Redirecting number Address S	ignals as indicated in table	6.3.3-6
ISUP Parameter values	IAM: Redirecting number		
	Nature of Address:	NoA_value	
	Address Signals <ar< th=""><th>ny appropriate value&gt;</th><th></th></ar<>	ny appropriate value>	
	Redirection Information		
	Redirection counters	=2	
	Original called number		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; ir</sip:any>	ndex=1,	
	<sip:value of="" redirect<="" th=""><th>ing number;cause=any&gt;;</th><th>index=1.1</th></sip:value>	ing number;cause=any>;	index=1.1
	<sip: any="" proper="" th="" uri;ca<=""><th>use=any&gt;; index=1.1.1</th><th></th></sip:>	use=any>; index=1.1.1	
	INVITE (IAM): History-Info not		
Comments		-	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
	,	Apply post test routing	e

Table 6.3.3-6: Mapping of Redirecting number into second last Hist-entry

	NoA_value	Value of Redirecting number second last hi-targeted-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Redirecting number
VA 02	international number	Add '+' to the Address Signal digits of the Redirecting number

TP number	TP_403_033	Reference	[1], clause 7.3.1
	11 _ 100_000	11010101100	[2], clauses 7.5.4.2.2,
			table, 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		idolo, Florille.
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Redirecting number Address presentation restricted into History-Info header Privacy value		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting, an Original called number parameter number parameter and a Redirection Information		
			/-Info header is present. A Privacy
	header is escaped in the	ne second last hi-targeted-to	-uri and the <b>PRIV_value</b> is mapped
	from the Address presentable 6.2.5-7	entation restricted indicator of	of the Redirecting number as indicated in
ISUP Parameter values	IAM: Redirecting nun	nber	
	Address pre	sentation restricted indicator	r: APRI_value
	Redirection Info	rmation	
	Redirection		
	Original called r	number	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<sip: any="" proper="" uri;cause="any?Privacy=&lt;b">PRIV_value&gt;; index=1.1</sip:>		
		r URI;cause=any>; index=1.	1.1
	INVITE (IAM): History-	Info <b>not present</b>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b>	→ INVITE
		Apply post test i	routine

Table 6.3.3-7: Mapping of Redirecting number APRI into Privacy header in the second last Hist-entry

	APRI_value PRIV_value	
		second last hi-targeted-to-uri
VA_01	presentation restricted	history
VA_02	presentation allowed	Header absent or 'none'

TP number	TP_403_034	Reference	[1], clause 7.3.1		
	1		[2], clauses 7.5.4.2.2,		
			table, 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5			
Test Purpose name	Mapping of Redirection Informa	ation Redirecting indicator			
Test Purpose	Ensure that on receipt of an IN'	VITE with encapsulated IAM c	ontaining a Redirecting		
_	number, an Original called num	ber parameter and a Redirect	ion Information parameter, an		
	INVITE request is sent and a H	istory-Info header is present.	A Privacy header is escaped		
	in the second last hi-targeted-to				
	indicator of the Redirection Info	rmation as indicated in table 6	5.2.5-21		
ISUP Parameter values	IAM: Redirection Information				
	Redirection counter=2				
	Redirecting indicator=RDIND_value				
SIP Parameter values	INVITE:				
	History-Info:				
	<sip:any proper="" uri="">; ir</sip:any>	ndex=1,			
	<sip: any="" proper="" th="" uri;ca<=""><th>use=any?Privacy=PRIV_value</th><th><b>e</b>&gt;; index=1.1</th></sip:>	use=any?Privacy=PRIV_value	<b>e</b> >; index=1.1		
	<sip: any="" proper="" th="" uri;ca<=""><th>use=any&gt;; index=1.1.1</th><th></th></sip:>	use=any>; index=1.1.1			
	INVITE (IAM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) → INVITE				
	Apply post test routine				

Table 6.3.3-8: Mapping of Redirecting indicator into Privacy header in the second last Hist-entry

	RDIND_value	PRIV_value second last hi-targeted-to-uri
VA_01	Call diverted, all redirection info presentation restricted	history
VA 02	Call diverted	none

TP number	TP 403 035	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.2,
			table, 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5	
Test Purpose name	Mapping of Redirection	on Information Redirection cour	nter
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number, an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a the hi-targeted-to-uri and the index parameter of the		
	Redirection counter as	s indicated in table 6.3.3-9	
ISUP Parameter values	IAM: Redirection Inf		
		counter=RDCONT_value	
SIP Parameter values	INVITE: History-Info: HI-E INVITE (IAM): History	<del>_</del>	
Comments		-	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	<b>→</b> -	NVITE
	Apply post test routine		

Table 6.3.3-9: Mapping of Redirection counter into index parameter of History-Info header

	RDCONT_value	HI-ENTRY_values
VA_01	1	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1</sip:>
VA_02	2	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1,</sip:></pre>
		<pre><sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1</sip:></pre>
VA_03	3	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>
		<pre><sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1,</sip:></pre>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1</sip:>
VA_04	4	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:></pre>
		<pre><sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1,</sip:></pre>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1</sip:>
VA_05	5	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:></pre>
		<pre><sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:></pre>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1.</sip:>

TP number	TP_403_036	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.2,		
			table, 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of Redir	ection Information Original redir	ection reason		
Test Purpose	Ensure that on re	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting			
	number an Origin	al called number and a Redirect	tion Information parameter, an INVITE		
	request is sent. T	he Original redirection reason in	dicator 'unknown' of the Redirection		
	Information is ma	pped into the cause parameter '	<b>404'</b> of the second hi-targeted-to-uri of		
	the History-Info h	eader in the sent INVITE as indi	cated in table 6.3.3-10		
ISUP Parameter values	IAM: Redirectio	n Information			
	Redire	ction counter=2			
	Origina	al redirection reason=unknown			
SIP Parameter values	INVITE:				
	History-Info:	<sip:any proper="" uri="">; index=1,</sip:any>			
		<sip:any <="" b="" proper="" uri;cause="40&lt;/th&gt;&lt;th&gt;&lt;b&gt;4">&gt;; index=1.1,</sip:any>			
		<sip: any="" proper="" uri;cause="an&lt;/th"><th>y&gt;; index=1.1.1</th></sip:>	y>; index=1.1.1		
	INVITE (IAM): His	story-Info not present			
Comments	, ,	•			
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM)	<b>→</b>	→ INVITE		
	, ,	Apply post tes	t routine		

Table 6.3.3-10: Void

TP number	TP_403_037	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.2,	
			table, 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/5		
Test Purpose name	Mapping of Redirection Infor	mation Redirecting reason		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirection number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Redirecting reason indicator <b>REAS_value</b> of the Redirection Information is mapped into the cause parameter <b>Cause_value</b> of the last hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-11			
ISUP Parameter values	IAM: Redirection Information			
	Redirection counter=2			
	Redirecting reason	n = <b>REAS_value</b>		
SIP Parameter values	INVITE:			
	History-Info: <sip:any pr<="" th=""><th>oper URI&gt;; index=1,</th><th></th></sip:any>	oper URI>; index=1,		
	<sip:any pr<="" th=""><th>oper URI;cause=any&gt;; index=1</th><th>.1,</th></sip:any>	oper URI;cause=any>; index=1	.1,	
	<sip: any="" p<="" th=""><th>roper URI;cause=Cause_value</th><th>e&gt;; index=1.1.1</th></sip:>	roper URI;cause=Cause_value	e>; index=1.1.1	
	INVITE (IAM): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM) →	→ IN	/ITE	
	Apply post test routine			

Table 6.3.3-11: Mapping of Redirecting reason into Reason header in the last Hist-entry

	REAS_value	Cause_value Second last hi-targeted-to-uri
VA_01	unknown	404
VA_02	unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	302
VA_06	Deflection immediate response	302
VA_07	Mobile subscriber not reachable	503

TP number	TP 403 038	Reference	[1], clause 7.3.1		
	11 _ 100_000	1101010100	[2], clauses 7.5.4.2.2,		
			table, 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/5			
Test Purpose name	Mapping of Called	party number Address Signals			
Test Purpose	Ensure that on rec	eipt of an INVITE with encapsulated	d IAM containing a Redirecting		
			ameter, an INVITE request is sent and		
		der is present. The Called party nun			
		ne History-Info header as indicated	in table 6.3.3-12		
ISUP Parameter values	IAM: Called party	y number			
	Nature of	of Address: NoA_value			
	Address	s Signals			
SIP Parameter values	INVITE:				
	History-Info: <	sip:any proper URI>; index=1,			
		sip:any proper URI;cause=any>; ir	ndex=1.1,		
		sip:Value of Called party number	r;cause=any>; index=1.1.1		
	INVITE (IAM): His	tory-Info not present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM)	<b>→</b> →	INVITE		
		Apply post test rou	itine		

Table 6.3.3-12: Mapping of Called party number into last Hist-entry

	NoA_value Value of Called party number last hi-targeted-to-uri	
VA_01	, ,	Add '+' and the country code where the SUT is located to the
VA_02		Address Signal digits of the Called party number  Add '+' to the Address Signal digits of the Called party number

TP number	TP_403_039	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.2,	
			table, 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5		
Test Purpose name	Mapping of Original called nu	mber Address Signals		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing an Original called			
		lirection Information parameter,		
		ent. The value of the first hi-targe		
	called number is mapped fro	m the Original called number A	ddress Signals as indicated in	
	table 6.3.3-13			
ISUP Parameter values	IAM: Original called number			
	Nature of Address: <b>NoA_value</b>			
	Address Signals < <b>Digits</b> >			
SIP Parameter values	INVITE:			
	History-Info: <sip:value< th=""><th>of Original called number&gt;; in</th><th>dex=1,</th></sip:value<>	of Original called number>; in	dex=1,	
	<sip:any pro<="" th=""><th>oper URI;cause=any&gt;; index=1.</th><th>1</th></sip:any>	oper URI;cause=any>; index=1.	1	
	INVITE (IAM): History-Info no	ot present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
-	INVITE (IAM) →	→ INV	ITE	
	Apply post test routine			

Table 6.3.3-13: Mapping of Original called number into first Hist-entry

	NoA_value	Value of Original called number First hi-targeted-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Original called number
VA 02	international number	Add '+' to the Address Signal digits of the Original called number

TP number	TP 403 040	Reference	[1], clause 7.3.1	
	1		[2], clauses 7.5.4.2.2,	
			table, 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/	L	14010, 7.0.1.2.2.1	
		0.000/5		
Selection criteria	PICS 6.3.1/2 AND PIC			
Test Purpose name		lled number Address presentat		
Test Purpose	Ensure that on receipt	of an INVITE with encapsulate	d IAM containing an Original called	
	number parameter, an	INVITE request is sent and a H	listory-Info header is present. A	
	Privacy header escape	ed in the first hi-targeted-to-uri a	and the PRIV_value is mapped from	
			riginal called number as indicated in	
	table 6.3.3-14		.9	
ISUP Parameter values	IAM: Original called number			
	Address presentation restricted indicator: <b>APRI_value</b>			
	Address Sig	nals <any appropriate="" value=""></any>		
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri?privacy="&lt;b">PRIV_value&gt;; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
	INVITE (IAM): History-			
Comments	, ,	•		
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM)	<b>→</b> →	NVITE	
	Apply post test routine			

Table 6.3.3-14: Mapping of Original called number APRI into Privacy header in the first Hist-entry

	APRI_value	PRIV_value first hi-targeted-to-uri
VA_01	presentation restricted	history
VA_02	presentation allowed	none

TP number	TP_403_041	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Second latest History-Info head	der field entry mapped into Red	directing number Nature of	
	address indicator			
Test Purpose	Ensure that on receipt of an IN			
	with encapsulated IAM is sent a			
	Redirection information parame			
	Redirecting number is mapped			
	containing a cause-param URI	parameter as indicated in table	e 6.3.3-15	
ISUP Parameter values	IAM: Redirecting number			
	Nature of address in	dicator= <b>NoA_value</b>		
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:second entry="" last="" uri;cause="any">; index=1.1,</sip:second></pre>			
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>			
	INVITE (IAM): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←			
		Apply post test routine		

Table 6.3.3-15: Mapping of second last first Hist-entry into Redirecting number Nature of address indicator

	Second last entry URI	NoA_value
		national (significant) number
	where MGCF is located AND the next ISUP node	
	is located in the same country	
VA_02	CC is <b>not</b> equal to the country code of the	international number
	country where MGCF is located	

TP number	TP_403_042	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/		•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Second latest History-Info head	der field entry is mapped into I	Redirecting number Address	
	signal			
Test Purpose	Ensure that on receipt of an IN			
	with encapsulated IAM is sent			
	Redirection information parame			
	number is mapped from the hi-			
	cause-param URI parameter in	the format <b>+'CC+NDC+SN'</b> a	s indicated in table 6.3.3-16	
ISUP Parameter values	IAM: Redirecting number			
	Address signal <i>deri</i>	ved from the second last Hist-e	entry	
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:second entry="" last="" uri;cause="any">; index=1.1,</sip:second></pre>			
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>			
	INVITE (IAM): History-Info not	present		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	100 Trying ←			
		Apply post test routine		

Table 6.3.3-16: Mapping of second last first Hist-entry into Redirecting number Address signal

Second last entry URI	NoA_value
CC is equal to the country code of the country where MGCF is located AND the next ISUP node is located in the same country	'+CC' is removed from the userpart digit string used in the Redirecting number Address signal
CC is <b>not</b> equal to the country code of the country where MGCF is located	'+' is removed from the userpart digit string used in the Redirecting number Address signal

TP number	TP 403 043	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Second latest History-Info number Address presenta		header is mapped into Redirecting	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted</b> indicator of the Redirecting number is mapped from the escaped Privacy header of the second latest History-Info header field entry containing a cause parameter as indicated in table 6.3.3-17			
ISUP Parameter values	IAM: Redirecting number Address preser	er ntation restricted indicato	r=APRI_value	
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,  <sip:any proper="" uri;cause="any">; index=1.1.1  INVITE (IAM): History-Info not present</sip:any></sip:any></sip:any>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>		
	Apply post test routine			

TP number	TP_403_044	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Privacy header is mapped into indicator	Redirecting number Address p	presentation restricted	
Test Purpose	Ensure that on receipt of an IN	VITE request containing a Hist	ory-Info header, an INVITE	
-	with encapsulated IAM is sent	and a Redirecting number an C	Original called number and a	
	Redirection information parame	eter is present. The Address p	resentation restricted	
	<b>indicator</b> of the Redirecting number is mapped from the Privacy header of the received			
	INVITE request as indicated in	table 6.3.3-17.	•	
ISUP Parameter values	IAM: Redirecting number			
	Address presentatio	n restricted indicator=APRI_va	ilue	
SIP Parameter values	INVITE:			
	Privacy: PRIV_value			
	History-Info:			
	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>			
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>			
	INVITE (IAM): History-Info not			
Comments		•		
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE ->	<b>→</b>	INVITE (IAM)	
	100 Trying ←		` ,	
		Apply post test routine		

Table 6.3.3-17: Mapping of Privacy header into Redirecting number Address presentation restricted indicator

	PRIV_value	APRI_value
VA_01	history	presentation restricted
VA_02	session	presentation restricted
VA_03	header	presentation restricted
VA_04	none	presentation allowed
VA_05	Header absent	presentation allowed

TP number	TP_403_045	Reference	[1], clause 7.2.1	
iii iidiiibei	11 _403_043	Reference		
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Escaped Privacy heade	r is mapped into Redirection	information Redirecting indicator	
Test Purpose	Ensure that on receipt of	of an INVITE request containi	ng a History-Info header, an INVITE	
-	with encapsulated IAM	is sent and a Redirecting nun	nber an Original called number and a	
		parameter is present. The Ro		
			Privacy header of the second last	
		History-Info header field entry and last History-Info header field in the received INVITE		
	request as indicated in t			
ISUP Parameter values	IAM: Redirection infor			
	Redirecting in	ndicator=RDIND_value		
SIP Parameter values	INVITE:			
	History-Info:			
	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>			
	<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,</sip:any></pre>			
	<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1.1</sip:any></pre>			
	INVITE (IAM): History-Info not present			
Comments	interior (in this in the cory in	oo. p. ooo.it		
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>É</b>	2 ()	
	100 1191119	Apply post test ro	utina	
		Apply post lest to	uine	

TP number	TP_403_046	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	election criteria PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Privacy header is map	ped into Redirection informati	on Redirecting indicator	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting indicator</b> of the			
	Redirection information is mapped from the Privacy header in the received INVITE request as indicated in table 6.3.3-18			
ISUP Parameter values	IAM: Redirection info			
SOF Farameter values		indicator= <b>RDIND_value</b>		
SIP Parameter values	INVITE:	a.a.a.a.a.		
	Privacy: PRIV_value			
	History-Info:			
	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>			
	<sip:any proper="" uri;cause="any">; index=1.1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></pre>			
	INVITE (IAM): History-			
Comments	· · · · · · · · · · · · · · · · · · ·	•		
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>	,	
		Apply post test ro	outine	

Table 6.3.3-18: Mapping of Privacy header into Redirecting indicator

	PRIV_value	RDIND_value
VA_01	history	Call diverted, all redirection info presentation restricted
VA_02	session	Call diverted, all redirection info presentation restricted
VA_03	header	Call diverted, all redirection info presentation restricted
VA_04	none	Call diverted
VA_05	Privacy header field absent	Call diverted

TP number	TP 403 047	Reference	[1], clause 7.2.1
	= ======	1	[2], clauses 7.5.4.3,
			table, 7.5.4.3.3
TSS reference	IMS-SS/CDIV/	-1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5	
Test Purpose name	'cause' parameter is mapped	into Redirection information Re	edirecting reason
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting reason</b> of the Redirection		
		e cause parameter of the lates meter in the received INVITE r	
	table 6.3.3-19	meter in the received invite i	equest as indicated in
ISUP Parameter values	IAM: Redirection information		
	Original redirection reason=unknown/not available		
	Redirecting reason	=REAS_value	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any">; index=1.1,</sip:any>		
	<sip:any cause="&lt;b" proper="" uri;="">Cause_value&gt;; index=1.1.1</sip:any>		
	INVITE (IAM): History-Info no	t present	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	<b>→</b>	INVITE (IAM)
	100 Trying	_	,
	, ,	Apply post test routine	
	L		

Table 6.3.3-19: Mapping of cause parameter in the last Hist-entry into Redirecting reason

	Cause_value Last hi-targeted-to-uri	REAS_value
VA_01	404	Unknown/not available
VA_02	302	Unconditional
VA_03	486	User busy
VA_04	408	No reply
VA_05	480	Deflection immediate response
VA_06	487	Deflection during alerting
VA_07	503	Mobile subscriber not reachable

TP number	TP_403_048	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3,
			table, 7.5.4.3.3
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5	
Test Purpose name	Hi-index is mapped into Redir	ection information Redirection	counter
Test Purpose	Ensure that on receipt of an IN	NVITE request containing a His	tory-Info header, an INVITE
	with encapsulated IAM is sent	and a Redirecting number an	Original called number and a
	Redirection information param	neter is present. The Redirection	on counter of the Redirection
	information is mapped from th	e hi-index of the last History-In	fo header field entry in the
received INVITE request as indicated in table 6.3.3-20. The number of dots in			number of dots in the hi-index
	value is equal to the value of the Redirection counter		
ISUP Parameter values	IAM: Redirection information		
	Redirection counter	r=RDCONT_value	
SIP Parameter values	INVITE:		
	History-Info: ENTRY_val	ues	
	INVITE (IAM): History-Info no	t present	
Comments	, , ,	•	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	INVITE (IAM)
	100 Trying	_	,
	Apply post test routine		

Table 6.3.3-20: Mapping of Redirection counter into index parameters of History-Info header

	ENTRY_values	RDCONT_value
VA_01	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	1
	<sip:represents called="" number;cause="any" party="" the="">; index=1.1</sip:represents>	
VA_02	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	2
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1</sip:represents></pre>	
VA_03	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	3
	<sip:any proper="" uri;cause="any">; index=1.1,</sip:any>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1,</sip:represents></pre>	
	<sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1</sip:represents>	
VA_04	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	4
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1,</sip:any></pre>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1.1</sip:represents></pre>	
VA_05	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	5
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1,</sip:any></pre>	
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1.1,</sip:any></pre>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1.1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1.1.1</sip:represents></pre>	

TP number	TP_403_049	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3,
			table, 7.5.4.3.4
TSS reference	IMS-SS/CDIV/	•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	First History-Info header field	entry is mapped into Original ca	alled number Nature of
	address indicator		
Test Purpose	Ensure that on receipt of an IN		
	with encapsulated IAM is sent		
	Redirection information param		
	Original called is mapped from		eld entry in the format
10112 2	+'CC+NDC+SN' as indicated in table 6.3.3-21		
ISUP Parameter values IAM: Original called number		, , ,	
	Numbering Plan Indicator=ISDN (Telephony) numbering plan		
	Noture of address in	(Recommendation E.	164 [1.1])
SIP Parameter values	INVITE:	ndicator= <b>NoA_value</b>	
SIF Farailleter values	History-Info:		
	<pre><sip:first entry="" uri="">;</sip:first></pre>	ndev-1	
	<sip:any proper="" th="" uri;ca<=""><th></th><th></th></sip:any>		
	INVITE (IAM): History-Info not		
Comments	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Message flows	SIP NNI	MGCF	SIP-I
	INVITE ->	<b>→</b>	INVITE (IAM)
	100 Trying ←		, ,
		Apply post test routine	

Table 6.3.3-21: Mapping of first Hist-entry into Original called number Nature of address indicator

	First entry URI	NoA_value
VA_01	CC is equal to the country code of the country	national (significant) number
	where MGCF is located AND the next ISUP	
	node is located in the same country	
VA_02	CC is <b>not</b> equal to the country code of the	international number
	country where MGCF is located	

TP number	TP 403 050	Reference	[1], clause 7.2.1
TT Hamber	11 _400_000	Kelelellee	[2], clauses 7.5.4.3,
TCC vofevence	IMAC 00/0DIV//		table, 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS		
Test Purpose name		r field entry is mapped into O	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address signal</b> of the Original called number is mapped from the first History-Info header field entry in the format +'CC+NDC+SN' as indicated in table 6.3.3-22		
ISUP Parameter values			
Numbering Plan Indicator=ISDN (Telephony) numbering		ny) numbering plan	
	Numbering i	•	• .
	(Recommendation E.164 [i.1])		
SIP Parameter values	Address signal derived from the first Hist-entry  INVITE:		
oir Farameter values	History-Info: <sip:first entry<="" th=""><th>URI;cause=any&gt;; index=1.1</th><th></th></sip:first>	URI;cause=any>; index=1.1	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b>	→ INVITE (IAM)
	100 Trying	<del>-</del>	,
		Apply post test ro	utine

Table 6.3.3-22: Mapping of first Hist-entry into Original called number Address signal

First entry URI	NoA_value
CC is equal to the country code of the country where MGCF is located AND the next ISUP	'+CC' is removed from the userpart digit string used in the Original called
node is located in the same country	number Address signal
country where MGCF is located	'+' is removed from the userpart digit string used in the Original called number Address signal

TP number	TP 403 051	Reference	[1], clause 7.2.1
	11 _ 100_001		[2], clauses 7.5.4.3,
			table, 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		table, 1.0.4.0.4
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	First History-Info header field e		s mapped into Original called
	number Address presentation i	restricted indicator	
Test Purpose	Ensure that on receipt of an IN	VITE request containing a Hist	tory-Info header, an INVITE
	with encapsulated IAM is sent	and a Redirecting number an (	Original called number and a
	Redirection information parame	eter is present. The Address p	presentation restricted
	indicator of the Original called number is mapped from the escaped Privacy header of the		
	first History-Info header field entry as indicated in table 6.3.3-23		
ISUP Parameter values	IAM: Original called		
	Address presentation restricted indicator= <b>APRI_value</b>		
SIP Parameter values	INVITE:		
History-Info:			
	<sip:first entry="" uri?privacy="PRIV_value">; index=1,</sip:first>		
	<sip:any proper="" th="" uri;cai<=""><th></th><th></th></sip:any>		
INVITE (IAM): History-Info not present			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←		, ,
	Apply post test routine		

TP number	TP_403_052	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3, table, 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		1.0.4.0.4
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	Privacy header is mapped into Original called number Address presentation restricted indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted</b> indicator of the Original called number is mapped from the Privacy header of the received INVITE request as indicated in table 6.3.3-23		
ISUP Parameter values	IAM: Original called Address presentation restricted indicator=APRI_value		
SIP Parameter values	INVITE:  Privacy: PRIV_value  History-Info: <sip:first entry="" uri="">; index=1,  <sip:any proper="" uri;cause="any">; index=1.1  INVITE (IAM): History-Info not present</sip:any></sip:first>		
Comments			
Message flows	SIP NNI INVITE → 100 Trying ←	•	<b>SIP-I</b> INVITE (IAM)
		Apply post test routine	

Table 6.3.3-23: Mapping of Privacy header into Redirecting number Address presentation restricted indicator

	PRIV_value	APRI_value
VA_01	history	presentation restricted
VA_02	session	presentation restricted
VA_03	header	presentation restricted
VA_04	none	presentation allowed
VA_05	Header absent	presentation allowed

TP number	TP_403_053	Reference	[1], clause 7.2.1	
	11 _ 100_000	11010101100	[2], clauses 7.5.4.3,	
			table, 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of a 181 Being forwa (Being forwarded) History-Info	arded with encapsulated ACM becader	Redirection number into 181	
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent.  The Redirection number is mapped into the hi-targeted-to-uri in a History-Info header containing one hi-entry in the sent 181 as indicated in table 6.3.3-24			
ISUP Parameter values	ACM: Backward call indicator  Called party statue='no indication'  Generic notification=call is diverting  Call diversion information  Redirection number  Nature of address indicator=NOA_value  Address signal Digits			
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=any>; index=1  181 (ACM): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE → INVITE (IAM)			
	181 Being forwarded ← 181 Being forwarded			
	(ACM - no indication)  Apply post test routine			

Table 6.3.3-24: Mapping Redirection number into History-Info header

	NOA_value	History-Info header: LAST_HIST_URI
VA_01	national (significant) number	Add '+' and CC (of the country where the MGCF is located) to Redirection number Address Signals then map to user portion of the last hi-targeted-to-uri in the format '+ CC NDC SN'.
VA_01	international number	Map complete Redirection number Address Signals and '+' to user portion of the last hi-targeted-to-uri in the format '+ CC NDC SN'

TP number	TP_403_054	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,	
			table, 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of a 181 Being forwa (Being forwarded) History-Info	rded with encapsulated ACM Fe header cause parameter	Redirecting reason into 181	
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Redirecting reason is mapped into the <b>cause parameter</b> of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25			
ISUP Parameter values	ACM: Backward call indicator Called party statue='no indication' Generic notification=call is diverting Redirection number Call diversion information Redirecting reason = REAS_value			
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=Cause_value>; index=1 181 (ACM): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -		INVITE (IAM)	
	181 Being forwarded ← 181 Being forwarded (ACM - no indication)			
	Apply post test routine			

Table 6.3.3-25: Mapping of Redirecting reason into cause parameter

CAUSE	Redirecting_Reason REAS_value	Cause parameter, CAUSE_value
VA_01	unknown	404
VA_02	unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	487
VA_06	Deflection immediate response	480
VA 07	Mobile subscriber not reachable	503

TP number	TP_403_055	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of a 181 Being f options no 181 (Being for	•	ed ACM Notification subscription	
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, if the Call diversion information Notification subscription options is set to presentation not allowed no 181 (Being forwarded) is sent			
ISUP Parameter values	ACM: Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=presentation not allowed			
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	181 Being forwarded	<b>←</b>	<ul> <li>181 Being forwarded (ACM - no indication)</li> </ul>	
	Apply post test routine			

TP number	TP_403_056	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/	•	, ,	
Selection criteria	PICS 6.3.1/2 AND PICS	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of a 181 Being f	orwarded with encapsula	ted ACM Notification subscription	
	options into 181 (Being fo	orwarded) escaped Privac	y header	
Test Purpose			d with encapsulated ACM a Redirection	
			t as an indication a call diversion	
			I diversion information Notification	
			rivacy header of the last hi-targeted-to-	
	uri in a History-Info heade	er in the sent 181 as indic	ated in table 6.3.3-26	
ISUP Parameter values	ACM:	ACM:		
	Generic notification=call is diverting			
	Redirection number			
	Call diversion info		_	
		Notification subscription options=NSO_value		
SIP Parameter values	181:			
			/?Privacy= <b>PRIV_value</b> >; index=1	
	181 (ACM): History-Info	not present		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	181 Being forwarded ← 181 Being forwarded			
	(ACM - no indication)			
	Apply post test routine			

Table 6.3.3-26: Mapping of Notification subscription options into Privacy header

CAUSE	NSO_value	PRIV_value
VA_01	Unknown	history
VA_02	presentation allowed with redirection number	Header not present
VA_03	presentation allowed without redirection number	history

TP number	TP 403 057	Reference	[1], clause 7.2.1		
	11 _ 100_001		[2], clauses 7.5.4.3,		
			table, 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Mapping of a 181 Being forwarded) History		ted CPG Redirection number int	o 181	
Test Purpose	Ensure that on receipt of a 181 Being forwarded with encapsulated CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Redirection number is mapped into the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-24				
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Call diversion information Redirection number Nature of address indicator=NOA_value Address signal Digits				
SIP Parameter values	181: History-Info: <sip:last_hist_uri;cause=any>; index=1 181 (CPG): History-Info not present</sip:last_hist_uri;cause=any>				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE → INVITE (IAM) 180 Ringing ← 180 Ringing (ACM)				
	181 Being forwarded ← 181 Being forw (CPG - call is d				
	Apply post test routine				

TP number	TP_403_058	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,	
			table, 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name			ted CPG Redirecting reason into 181	
	(Being forwarded) History			
Test Purpose			ith encapsulated CPG the Event	
			and the Call diversion parameter is	
			a 181 (Being forwarded) is sent. The Call	
			d into the cause parameter of the last	
		ory-Info header in the se	nt 181 as indicated in table 6.3.3-25	
ISUP Parameter values	CPG: Event=Progress			
	Generic notification			
	Redirection number			
		Call diversion information		
	Ÿ.	son = <b>REAS_value</b>		
SIP Parameter values	181:			
	History-Info:			
	<pre><sip:derived acm;cause="Cause_value" from="" in="" number="" redirection="">; index=1</sip:derived></pre>			
	181 (CPG): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	180 Ringing ← 180 Ringing (ACM)			
	181 Being forwarded ← 181 Being forwarded			
	(CPG - call is diverting)			
	Apply post test routine			

TP number	TP 403 059	Reference	[1], clause 7.2.1		
Ti Tidiliboi	11 _ 100_000	Ttoronoo	[2], clauses 7.5.4.3,		
			table, 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/		table, 7.5.4.5.9		
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name			d CPG Notification subscription option		
	presentation not allowed r	no 181 (Being forwarded) is	s sent		
Test Purpose	Ensure that on receipt of a	a 181 Being forwarded with	encapsulated CPG the Event		
	indicator is set to 'Progres	s' a Redirection number ar	nd the Call diversion parameter is		
			the Call diversion information		
			on not allowed no 181 (Being		
	forwarded) is sent	,			
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=call is diverting				
	Redirection number				
	Call diversion information				
	Notification subscription options=presentation not allowed				
SIP Parameter values	Notification subscription options=presentation not allowed				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	<b>→</b>	→ INVITE (IAM)		
	180 Ringing	· ·			
	181 Being forwarded ← 181 Being forwarded				
	(CPG - call is diverting)				
	Apply post test routine				

TP number	TP_403_060	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.4.3,	
			table, 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of a 181 Being forwar	ded with encapsulated CPG N	lotification subscription	
	options into 181 (Being forward			
Test Purpose	Ensure that on receipt of a 181			
	indicator is set to 'Progress' a F			
	present as an indication a call of			
	diversion information Notification			
	header of the hi-targeted-to-uri	in a History-Info header in the	sent 181 as indicated in	
	table 6.3.3-26			
ISUP Parameter values	CPG: Event=Progress			
	Generic notification=call is diverting			
	Redirection number			
	Call diversion information			
		tion options= <b>NSO_value</b>		
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri;cause="any?Privacy=&lt;b">PRIV_value &gt;; index=1</sip:any>			
	181 (CPG): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	<b>→</b>	INVITE (IAM)	
	180 Ringing ← ← 180 Ringing (ACM)			
	181 Being forwarded ← 181 Being forwarded			
	(CPG - call is diverting)			
	Apply post test routine			

TP number	TP_403_061	Reference	[1], clause 7.2.1	
ir number	11 _403_001	Kelelelice	[2], clauses 7.5.4.3,	
			table, 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/	I	table, 7.0.4.0.0	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of a 181 Being forwarded with encapsulated CPG Alerting Redirection number			
rest i dipose name	into 180 (Ringing) History-Info header Redirecting reason is mapped into the cause			
	parameter			
Test Purpose		of a 181 Being forwarded wit	th encapsulated CPG the Event	
reat raipede			present, a 180 (Ringing) is sent. The	
			ped into the hi-targeted-to-uri in a	
			licated in table 6.3.3-24 and the cause	
			ed Redirecting reason as indicated in	
	table 6.3.3-25		9	
ISUP Parameter values	ACM: Call diversion in	formation		
		reason = <b>REAS_value</b>		
	Redirection num			
	CPG: Event indicator=	3		
	Redirection num			
	Nature of address indicator=NOA_value			
	Address signal <b>Digits</b>			
SIP Parameter values	180:			
	History-Info:	Dadinadian	000	
			CPG;cause=Cause_value>; index=1	
Comments	180 (ACM): History-Inf	o not present		
	SIP NNI	MGCF	SIP-I	
Message flows		_	<b></b> .	
	INVITE	<b>→</b> ←	<ul><li>→ INVITE (IAM)</li><li>← 180 Ringing (ACM)</li></ul>	
	- 101201191011			
	(CPG - call is di			
	Apply post test routine			

TP number	TP_403_062	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,		
			table, 7.5.4.3.7		
TSS reference	IMS-SS/CDIV/		1		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Mapping of a 181 Being forwarded Restriction into 180 (Ringing) Priva		ng Redirection Number		
Test Purpose	Ensure that on receipt of a 181 Be set to 'Alerting' a Redirection Number	per Restriction parameter is pr	esent, a 180 (Ringing) is sent.		
	The Redirection Number Restriction sent 180 as indicated in table 6.3.3		into the Privacy header in the		
ISUP Parameter	ACM: Backward call indicator				
values	Called party status=no i				
	Generic notification=call is	diverting			
	Call diversion information				
	Redirection number				
	CPG: Event indicator=Alerting Redirection Number Restriction=PRES_restr				
		tion=PRES_restr			
SIP Parameter values	180:				
	Privacy= <b>PRIV_value</b>				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)		
	181 Being forwarded ←	<b>←</b>	181 Being forwarded (CPG - call is diverting)		
		Apply post test routine			

Table 6.3.3-27: Mapping of Redirection Number Restriction parameter into Privacy header

CAUSE	Redirection Number Restriction PRES_restr	Privacy PRIV_value
VA_01	Presentation allowed	'none' OR
		Header not present
VA_02	Presentation restricted	'History'

TP number	TP_403_063	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.4.3,		
			table, 7.5.4.3.8		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of 200 OK INVITE with				
	History-Info header Redirecting				
Test Purpose	Ensure that on receipt of a 200				
	is present, a 200 OK (INVITE)	is sent. The Redirection numb	er Address signal digits are		
	mapped into the last				
	hi-targeted-to-uri in a History-li				
	and the cause parameter value	ie is mapped from a previous	received Redirecting reason		
IOUD D	as indicated in table 6.3.3-25				
ISUP Parameter values	ACM: Backward call indicator				
	Called party status=				
	Generic notification=cal				
	Redirecting reason Redirection number	=REAS_value			
	ANM:				
	Redirection number				
	Nature of address indicator= <b>NOA_value</b>				
	Address signal <b>Digits</b>				
SIP Parameter values	200 OK:				
	History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<pre><sip:last_hist_uri;cause=cause_value>; index=1.1</sip:last_hist_uri;cause=cause_value></pre>				
	200 (ANM): History-Info not present				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	· -	INVITE (IAM)		
	181 Being forwarded ←	· <b>←</b>	181 Being forwarded (ACM)		
	180 Ringing ←	· <b>←</b>	180 Ringing (CPG)		
	200 OK INVITE ←	· <b>←</b>	200 OK INVITE (ANM)		
	ACK -	<b>→</b>	ACK		
		Apply post test routine			

TP number	TP_403_064	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,			
			table, 7.5.4.3.7			
TSS reference	IMS-SS/CDIV/		table, Fiel non			
Selection criteria	PICS 6.3.1/2 AND PICS (	6.3.2/5				
Test Purpose name	Mapping of 200 OK INVIT 200 OK INVITE Privacy h	•	A Redirection Number Restriction into			
Test Purpose	Restriction parameter is p INVITE is sent. The Redi	Ensure that on receipt of a 200 OK INVITE with encapsulated ANM a Redirection Number Restriction parameter is present as an indication a call diversion occurred, a 200 OK INVITE is sent. The Redirection Number Restriction parameter value is mapped into the Privacy header in the sent 200 OK INVITE as indicated in table 6.3.3-27				
ISUP Parameter values	ACM: Generic notificatio Call diversion info Redirection numbe ANM: Event indicator=Al Redirection Numb	rmation er	tr			
SIP Parameter values	200 OK INVITE:  Privacy=PRIV_value 200 (ANM): History-Info I	not present				
Comments						
Message flows	SIP NNI INVITE 181 Being forwarded 180 Ringing 200 OK INVITE ACK	MGCF    ←  ←  Apply post test r	SIP-I  → INVITE (IAM)  ← 181 Being forwarded (ACM)  ← 180 Ringing (CPG)  ← 200 OK INVITE (ANM)  → ACK			
		Apply post test i	Valine			

## 6.3.4 Conference call (CONF)

TP number	TP_404_001	Reference	[1], clause 7.2.1		
			[2], clause 7.5.6.2		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2				
Test Purpose name	'isfocus' parameter and conference URI in Contact header in ACK received, a SUBSCRIBE				
	is sent				
Test Purpose	Ensure that on receipt of an INVITE request and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent after the ACK was received. The Request URI contains the value received in the Contact header in the ACK, the To header is set to the value sent in the 180 Ringing, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the 180 Ringing or the 200 OK INVITE the Privacy header is sent as in the 180 Ringing or 200 OK INVITE				
ISUP Parameter values					
SIP Parameter values  Comments	INVITE: Contact: <conference uri="">; isfocus SUBSCRIBE: Request URI derived from the Contact header To: <uri 180="" equal="" in="" the="" to="" value=""> P-Asserted-Identity: &lt; URI equal to the value in the 180 or 200&gt;</uri></conference>				
	SIP NNI	MGCF	SIP-I		
Message flows	INVITE 100 Trying 180 Ringing	<b>→</b>	INVITE (IAM)  180 Ringing (ACM)		
	200 OK (INVITE)		200 OK (INVITE) (ANM)		
	SUBSCRIBE 202 Accepted				
		Apply post test routine			

TP number	TP_404_002	Reference	[1], clause 7.3.1 [2], clause 7.5.6.2		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	20 AND PICS 6 3 9/1			
Test Purpose name	'isfocus' parameter and conference URI in Contact header in 200 OK received, a SUBSCRIBE is sent				
Test Purpose	Ensure that on receipt of a 200 OK INVITE successful final response and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent. The Request URI contains the value received in the Contact header in the 200 OK, the From header is set to the value sent in the initial INVITE request, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the initial INVITE request the Privacy header is sent as in the initial INVITE				
ISUP Parameter values					
SIP Parameter values	200: Contact: <conference uri="">; isfocus SUBSCRIBE: From: <uri equal="" in="" invite="" the="" to="" value=""> P-Asserted-Identity: &lt; URI equal to the value in the INVITE&gt;</uri></conference>				
Comments					
Message flows	SIP-I INVITE (IAM)  100 Trying  180 Ringing (ACM)  200 OK (INVITE) (ANM) ACK  →	<del>+</del> +	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK		
			SUBSCRIBE 202 Accepted e		

TP number	TP_404_003	Reference	[1], clause 7.2.1			
			[2], clause 7.5.6.3			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of notification of	'Conference established' at t	he I-MGCF			
Test Purpose	Ensure that on receipt of an initial INVITE request and the Contact header contains the <b>isfocus</b> parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY					
			XML conference-info instance is			
			ue' an ISUP CPG message is set			
ISUP Parameter values	and the Generic notification p	barameter is set to Comeren	ce established			
150P Parameter values		inh a d				
SIP Parameter values	Conference establ  INVITE: Contact: <conference< th=""><th></th><th></th></conference<>					
SIP Parameter values						
	NOTIFY: Subscription-State Event: conference					
		olication/conference-info+xml				
	xml version="1.</th <th></th> <th></th>					
	conference-info					
	conference-sta	te				
	active>true<					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	<b>→</b>	➤ INVITE (IAM)			
	100 Trying	<del>(</del>	100 Trying			
		← •	180 Ringing (ACM)			
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)					
	ACK → ACK					
	NOR PAOR					
	SUBSCRIBE ← 202 Accepted →					
	NOTIEV		NEO (ODO)			
		-	NFO (CPG)			
	200 OK (NOTIFY)	<b>+</b>	200 OK (INFO)			
		Apply post test routine				

TP number	TP_404_004	Refe	rence	[1], clause 7.3.1 [2], clause 7.5.6.3		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1					
Test Purpose name	Interworking of notification of 'Conference established' at the O-MGCF					
Test Purpose	Ensure that on receipt of an INVITE request after a session was established and the					
	Contact header conta	Contact header contains the <b>isfocus</b> parameter, a SUBCRIBE request is sent. Ensure that				
				UBSCRIBE request and a XML		
		conference-info instance is present, the 'active' sub element of the 'conference-state' element is set to 'true' an INFO with encapsulated ISUP CPG message is set and the				
		Generic notification parameter is set to 'Conference established'. The INVITE request contains also a Replaces header to terminate the originally session by sending a BYE				
		ices neader to	terminate the origin	nally session by sending a BYE		
ISUP Parameter values	request  CPG: Generic notific	notion				
150F Parameter values		e established				
SIP Parameter values	INVITE 1: CallID: xxx					
on rarameter values	INVITE 1: CallID: xxx					
		conference UR	l>: isfocus			
		xxx; to-tag=<>;				
	NOTIFY: Subscription					
	Event: con					
	Content-Ty	/pe: application	/conference-info+x	xml		
	xml vers</th <th></th> <th></th> <th></th>					
	conference					
		ence-state				
		ve>true<				
Comments	BYE: CallID: xxx	raccivad in the	confirmed dialogu	ie is originated by the conference		
Comments	focus. The originally of			ie is originated by the conference		
Message flows	SIP-I	ilalogue riave i	MGCF	SIP NNI		
message news	INVITE (IAM)	<b>→</b>	→			
	100 Trying	É	÷			
	180 Ringing (ACM)	÷	÷	180 Ringing		
	Too ranging (7tow)	•	•	100 Kinging		
	200 OK (INVITE) (ANM)	<b>←</b>	<b>+</b>	200 OK (INVITE)		
	ACK	<b>→</b>	<b>→</b>	ACK		
			<b>←</b>	INVITE 2		
			÷			
			÷	ACK		
			•	HOIC		
			<b>→</b>	SUBSCRIBE		
			<del>-</del>	202 Accepted		
			_			
	INFO (CPG)	<b>←</b>	<b>←</b>	NOTIFY		
	200 OK INFÓ	<b>→</b>	<b>→</b>	200 OK (NOTIFY)		
			<b>←</b>			
		_	<b>→</b>	200 OK (BYE)		
		Ap	ply post test rout	tine		

TP number	TP_404_005	Reference	[1], clause 7.2.1		
TSS reference	DETNI SS/CONE/		[2], clause 7.5.6.3		
	PSTN-SS/CONF/	20 AND DIOC 0 0 0/4			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2		_		
Test Purpose name	Interworking of notification of 'o				
Test Purpose	An established conference is a				
	at the I-MGCF. Ensure that on				
	'endpoint' element does not cor				
	'status' sub element of the 'end				
	encapsulated ISUP CPG mess	age is sent the Generic notific	ation indicator is set to 'other		
	party added'				
ISUP Parameter values	CPG: Generic notification				
	other party added				
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>				
	Subscription-State: active				
	Event: conference				
	Content-Type: application/conference-info+xml				
	xml version="1.0"</th				
	conference-info				
	users				
	user				
	endpoint e	entity=" <not isup="" of="" uri="">"</not>			
	status>connected<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	Session is established and joined in a conference				
	NOTIFY →	· →	INFO (CPG)		
	200 OK (NOTIFY) ←	<b>+</b>	200 OK (INFO)		
		Apply post test routine			

TP number	TP 404 006	Reference	[1], clause 7.3.1	
			[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/		•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'o	ther party added' at the O-	-MGCF	
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
			lest and the 'entity' attribute of the	
			received in the To header and the	
	'status' sub element of the 'end			
		age is sent the Generic no	otification indicator is set to 'other	
IOLID D	party added			
ISUP Parameter values	CPG: Generic notification			
OID Deservation relies	other party added			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: a	active		
		nation/conforces inforces	1	
	<pre>content-Type: applic <?xml version="1.0"</pre></pre>	cation/conference-info+xm	1	
	conference-info			
	users			
	user			
		entity=" <not isup="" of="" uri=""></not>	"	
	status>connected<			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	Session is	established and joined ir	n a conference	
	INFO (CPG) ←	<del>_</del>	NOTIFY	
	200 OK INFO →	<b>→</b>	200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_404_007	Reference	[1], clause 7.2.1			
T00 == f=======	DOTAL CO/CONE/		[2], clause 7.5.6.3			
TSS reference	PSTN-SS/CONF/	2 0 0 0/00 AND DIOO 0 0	14			
Selection criteria		6.3.2/20 AND PICS 6.3.9				
Test Purpose name		ion of 'isolated' at the I-MG				
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request					
		at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the				
		'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>on-hold</b> , an INFO with encapsulated ISUP				
ICUID Deservation and least		he Generic notification indi	cator is set to "isolated"			
ISUP Parameter values	CPG: Generic notificat	ion				
SIP Parameter values	Isolated	1-1				
SIP Parameter values	NOTIFY: To: <sip-i ad<="" th=""><th></th><th></th></sip-i>					
	Subscription- Event: confe					
		rence e: application/conference-i	ofo Lyml			
	xml versio</th <th></th> <th>IIO+XIIII</th>		IIO+XIIII			
	conference-ir					
	users	110				
	user					
	endpoint entity=" <uri of="" sip-i="">"</uri>					
	status>on-hold<					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	Sess	sion is established and jo	ined in a conference			
	CASE A					
	NOTIFY	<b>→</b>	→ INFO (CPG)			
	200 OK (NOTIFY)	<b>←</b>	← 200 OK INFO			
	CASE B					
	NOTIFY   INFO (CPG)					
	200 OK (NOTIFY) ← 200 OK INFO					
	INVITE(sendonly)	<b>→</b>	→ INVITE (sendonly)			
	200 OK (INVITE)	<b>←</b>	← 200 OK (INVITE)			
	ACK	<b>→</b>	→ ACK			
		Apply post test	routine			

TP number	TP_404_008	Reference		[1], clause 7.3.1		
TSS reference	PSTN-SS/CONF/			[2], clause 7.5.6.3		
		20 0 2 2/20 AND DICC 0	0.0/4			
Selection criteria		CS 6.3.2/20 AND PICS 6.3				
Test Purpose name		ation of 'isolated' at the O-		· · · · · · · · · · · · · · · · · · ·		
Test Purpose		An established conference is already indicated by receipt of an adequate NOTIFY request				
		at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the				
		'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>on-hold</b> , an INFO with encapsulated ISUP				
ICUD Devementar values	CPG: Generic notific	the Generic notification in	idicator	is set to isolated		
ISUP Parameter values	Isolated	ation				
SIP Parameter values	NOTIFY: To: <sip-i< th=""><th></th><th></th><th></th></sip-i<>					
SIP Parameter values						
	Event: conf	n-State: active				
		pe: application/conference	n info LV	ml		
	xml vers</th <th></th> <th>5-11 11O+X</th> <th>IIII</th>		5-11 11O+X	IIII		
	conference					
	users	-11110				
	use					
	endpoint entity=" <uri of="" sip-i="">"</uri>					
		status>on-hold<				
Comments						
Message flows	SIP-I	MGCF		SIP NNI		
	Se	ssion is established and	l joined	in a conference		
	CASE A					
	INFO (CPG)	<b>←</b>	<b>←</b>	NOTIFY		
	200 OK (INFO)	<b>→</b>	<b>→</b>	200 OK (NOTIFY)		
	CASE B					
	INFO (CPG)		_	NOTIFY		
	200 OK INFO → 200 OK (NOTIFY)					
	INVITE(sendonly)	<b>←</b>	<b>←</b>	INVITE(sendonly)		
	200 OK (INVITE)	<b>→</b>	<b>→</b>	200 OK (INVITE)		
	ACK	<b>←</b>	<b>←</b>	ACK		
		Apply post te	st routi			

TP number	TP_404_009	Reference	[1], clause 7.2.1
	DOTN 00/00NE/		[2], clause 7.5.6.3
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2		
Test Purpose name	Interworking of notification of 'other party isolated' at the I-MGCF		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request		
	at the I-MGCF. Ensure that on		
	'endpoint' element does not cor		
	'status' sub element of the 'end	point' element is set to <b>on-hol</b>	d, an INFO with encapsulated
	ISUP CPG message is sent the	e Generic notification indicator	is set to 'other party
	isolated'		
ISUP Parameter values	CPG: Generic notification		
	other party isolated		
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>		
	Subscription-State: active		
	Event: conference		
	Content-Type: applic	cation/conference-info+xml	
	xml version="1.0"</th <th></th> <th></th>		
	conference-info		
	users		
	user		
	endpoint entity=" <not isup="" of="" uri="">"</not>		
	status>on-hold<		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	Session is established and joined in a conference		
	NOTIFY →	· →	INFO (CPG)
	200 OK (NOTIFY) ←	<b>←</b>	200 OK INFO
	Apply post test routine		

TP number	TP 404 010	Reference	[1], clause 7.2.1	
			[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/20 AND PICS 6.3.9/	1	
Test Purpose name	Interworking of notification	ation of 'other party isolated'	at the O-MGCF	
Test Purpose			receipt of an adequate NOTIFY request	
			Y request and the 'entity' attribute of the	
			ess as received in the To header and the	
			t to <b>on-hold</b> , an INFO with encapsulated	
		s sent the Generic notification	n indicator is set to 'other party	
IOUR R	isolated'			
ISUP Parameter values	CPG: Generic notific			
OID Description of the control of th	other party isolated			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: active  Event: conference			
	Content-Type: application/conference-info+xml xml version="1.0"</th			
	conference-info			
	users			
	user			
	****	endpoint entity=" <not of="" th="" uri=""  <=""><th>ISUP&gt;"</th></not>	ISUP>"	
	status>on-hold<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Se	Session is established and joined in a conference		
	INFO (CPG)	<b>←</b>	← NOTIFY	
	200 OK INFO	<b>→</b>	→ 200 OK (NOTIFY)	
		Apply post test routine		

TP number	TP_404_011	Reference	[1], clause 7.2.1	
			[2], clause 7.5.6.3	
TSS reference		PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1			
Test Purpose name		Interworking of notification of 'reattached' at the I-MGCF		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>connected</b> , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'reattached'			
ISUP Parameter values	CPG: Generic notification reattached			
SIP Parameter values	NOTIFY: To:			

TP number	TP_404_012	Reference	[1], clause 7.3.1	
TSS reference	DOTAL CO/CONE/		[2], clause 7.5.6.3	
Selection criteria		PSTN-SS/CONF/ PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name		ion of 'reattached' at the		
Test Purpose	and isolated at the I-MC attribute of the 'endpoin and the 'status' sub eler encapsulated ISUP CP' 'reattached'	An established conference is already indicated by receipt of an adequate NOTIFY request and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>connected</b> , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'reattached'		
ISUP Parameter values	CPG: Generic notificat Reattached	ion		
SIP Parameter values	Event: confe Content-Type xml versio<br conference-i users user	-State: active rence e: application/conference n="1.0"		
Comments	SIP-I	MGCF	SIP NNI	
Message flows			a conference and isolated  ← NOTIFY → 200 OK (NOTIFY)  ← NOTIFY → 200 OK (NOTIFY)  ← INVITE(sendrecv) → 200 OK (INVITE) ← ACK	

TP number	TP_404_013	Reference	[1], clause 7.2.1
			[2], clause 7.5.6.3
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'other party reattached' at the I-MGCF		
Test Purpose	An established conference is a		
	and another party is isolated at		
	and the 'entity' attribute of the 'e		
	received in the To header and t		
	connected, an INFO with enca		is sent the Generic
	notification indicator is set to 'o	ther party reattached'	
ISUP Parameter values	CPG: Generic notification		
	other party reattached		
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>		
	Subscription-State: active		
	Event: conference		
		cation/conference-info+xml	
	xml version="1.0"</th <th></th> <th></th>		
	conference-info		
	users		
	user		
	endpoint entity=" <not isup="" of="" uri="">"</not>		
	status>connected<		
Comments			
Message flows	SIP NNI MGCF SIP-I		
		ined in a conference and an	
	NOTIFY →	<b>→</b>	INFO (CPG)
	200 OK (NOTIFY)	<b>←</b>	200 OK (INFO)
		Apply post test routine	

TP number	TP_404_014	Reference	[1], clause 7.2.1
	1		[2], clause 7.5.6.3
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	20 AND PICS 6.3.9/1	
Test Purpose name	Interworking of notification of 'c	ther party reattached at the	O-MGCF
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request		
	and another party is isolated at		
	and the 'entity' attribute of the '		
	received in the To header and		
	connected, an INFO with enca		e is sent the Generic
	notification indicator is set to 'o	ther party reattached	
ISUP Parameter values	CPG: Generic notification		
	other party reattached		
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>		
	Subscription-State: active		
	Event: conference		
	Content-Type: application/conference-info+xml		
	xml version="1.0"</th		
	conference-info		
	users		
	user		
		entity=" <not isup="" of="" uri="">"</not>	
	status>connected<		
Comments			
Message flows	SIP NNI MGCF SIP-I		
	Session is established joined in a conference and another party was isolated		
	INFO (CPG) ← NOTIFY		
	200 OK (INFO)	<b>→</b> 20	0 OK (NOTIFY)
		Apply post test routine	

TP number	TP_404_015	Reference	[1], clause 7.2.1
			[2], clause 7.5.6.3
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'o		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>dialled-out</b> , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'other party disconnected'		
ISUP Parameter values	CPG: Generic notification other party disconne	ected	
SIP Parameter values	<pre><?xml version="1.0" conference-info users user endpoint of status joining or</pre></pre>	active cation/conference-info+xml	
Comments			
Message flows	SIP NNI MGCF SIP-I		
		established and joined in a c	
	NOTIFY →		INFO (CPG)
	200 OK (NOTIFY) ←	=	200 OK (NOTIFY)
		Apply post test routine	

TP number	TP_404_016	Reference	[1], clause 7.2.1	
Ti Humber	11 _404_010	Kelefelice	[1], clause 7.2.1	
TSS reference	PSTN-SS/CONF/	L	[[2], clause 7.0.0.0	
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name		tification of 'other party disconn		
Test Purpose			receipt of an adequate NOTIFY request	
	at the O-MGCF. E	nsure that on receipt of a NOTI	FY request and the 'entity' attribute of the	
	'endpoint' element	t does not contain the ISUP add	Iress as received in the To header and the	
		nt of the 'endpoint' element is s		
			neric notification indicator is set to 'other	
	party disconnect			
ISUP Parameter values		CPG: Generic notification		
	other party disconnected			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: active			
		Event: conference		
		Content-Type: application/conference-info+xml		
	***************************************	version="1.0"		
	conference-info			
	users			
		user	fictio."	
		endpoint entity=" <not or="" status="" uri="">disconnected&lt;</not>	i isur>	
		or		
		joining-method>dialled-c	nut-	
Comments		joining-method>dialied-d	out	
Message flows	SIP NNI	MGCF	SIP-I	
meddago meme	Session is established and joined in a conference			
	INFO (CPG)	<b>←</b>	← NOTIFY	
	200 OK (INFO)	<b>→</b>	→ 200 OK (NOTIFY)	
		Apply post test	· · ·	

#### 6.3.5 Message Waiting Indication (MWI)

Void.

#### 6.3.6 Malicious Communication Identification (MCID)

TP number	TP_406_001	Reference	[1], clause 7.3.1	
			[2], clause 7.5.9.1	
TSS reference	IMS-SS/MCID/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	PICS 6.3.1/2 AND PICS 6.3.2/3		
Test Purpose name	Receipt of INFO request an ID	Receipt of INFO request an IDR is sent		
Test Purpose	Ensure that on receipt of an INFO request containing a 'mcid' XML element and the 'McidRequestIndicator' subelement is set to <b>XML_McidReq</b> , an INFO with encapsulated ISUP IDR message is sent and the MCID request indicators is set to <b>MCID_req</b> as indicated in table 6.3.6-1			
ISUP Parameter values	IDR: MCID request indicators	S		
	MCID_req			
SIP Parameter values	INFO: xml version="1.0"  mcid  request McidRequestIndicat  HoldingIndicator>1   INFO (IDR) no xml body prese			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	INFO (IDR)	<b>←</b>	INFO	
	200 OK INFO → 200 OK INFO			
		Apply post test routine		

Table 6.3.6-1: Mapping of XML McidRequestIndicator into ISUP MCID request indicator

	XML_McidReq	MCID_req
VA_01	0	MCID not requested
VA 02	1	MCID requested

TP number	TP 406 002	Reference	[1], clause 7.3.1	
			[2], clause 7.5.9.1	
TSS reference	IMS-SS/MCID/	•	IE 3'	
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/3		
Test Purpose name	Receipt of IRS an INF	O request is sent		
Test Purpose			osulated IRS message containing a MCID	
		t to <b>MCID_rsp</b> , an INF0	D is sent and a MCID XML response element	
	is present.			
			IcidRsp as indicated in table 6.3.6-2	
ISUP Parameter values	IRS: MCID response			
		MCID_rsp		
SIP Parameter values		INFO:		
	xml version="1.</th <th>0"</th> <th></th>	0"		
	mcid			
		response>		
	McidResponseIndicator> <b>XML_McidRsp</b> </th			
	INFO (IDR) no xml body present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	<b>→</b>	→ INVITE	
	ACM		← 180 Ringing	
	INFO (IDR)	<b>←</b>	← INFO	
	200 OK INFO → 200 OK INFO			
	INFO (IRS)	<b>→</b>	→ INFO	
	200 OK INFO ← 200 OK INFO			
		Apply pos	t test routine	

Table 6.3.6-2: Mapping of ISUP MCID response indicator into XML McidResponseIndicator

	MCID_rsp	XML_McidRsp
VA_01	MCID not included	0
VA_02	MCID included	1

TP number	TP_406_003	Reference	[1], clause 7.3.1
			[2], clause 7.5.9.1.3
TSS reference	IMS-SS/MCID/	- 1-	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3		
Test Purpose name	Receipt of IRS an INFO req		number is interworked RS message containing a 'mcid'
Test Purpose	response indicator is set to MCID included, an INFO request is sent and a MCID XML response element is present the McidResponseIndicator is set to 1  A Calling party number 'user provided' or 'network provided' is contained in the IRS a XML mcid OrigPartyIdentity element is present in the INFO request and the URI is derived from the address signals of the calling party number.  Nature of address indicator:  National (significant) number: add '+' and 'CC' the county code where the SUT is located to the Address signal of the Calling party number and sent in the 'mcid' XML OrigPartyIdentity element.  International number: add '+' to the Address signal of the Calling party number and sent in the 'mcid' XML OrigPartyIdentity element.  The Calling party number Address Presentation restriction indicator value APRI_value is mapped into the XML mcid OrigPartyPresentationRestriction is set to XML_orig_restr as		
	indicated in table 6.3.6-3		-
ISUP Parameter values	IRS: MCID response indicator  MCID included  Calling Party number  Address presentation restriction indicator=APRI_value  Address signal		
SIP Parameter values	INFO: <pre></pre>		
Comments			
Message flows	SIP-I	MGCF	SIP-NNI
J T T T T T T T T T T T T T T T T T T T	INVITE (IAM)  180 Ringing (ACM – free) INFO (IDR)  200 OK INFO  INFO (IRS)  →	→ ← →	INVITE 180 Ringing INFO 200 OK INFO INFO
	200 OK INFO <b>+</b>	Apply post test rout	200 OK INFO

Table 6.3.6-3: Mapping of ISUP Calling party number APRI into XML OrigPartyPresentationRestriction

	APRI_value	XML_orig_restr
VA_01	Presentation restricted	True
VA_02	Presentation allowed	False

TP number	TP_406_004	Reference	[1], clause 7.3.1 [2], clause 7.5.9.1.4
TSS reference	IMS-SS/MCID/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	3	
Test Purpose name			alling party number is interworked
Test Purpose name	Ensure that on receipt of an IN	EO with openious of ID	S massage containing a 'moid'
Test Purpose	response indicator is set to MCID included, an INFO request is sent and a MCID XML response element is present the McidResponseIndicator is set to 1  An Additional calling party number 'user provided' or 'user provided, not verified' or 'network provided' is contained in the IRS a XML mcid GenericNumber element is present in the INFO request and the URI is derived from the address signals of the Additional calling party number.  Nature of address indicator  National (significant) number: add '+' and 'CC' the county code where the SUT is located to the Address signal of the Additional calling party number and sent in the 'mcid' XML GenericNumber element.  International number: add '+' to the Address signal of the Additional calling party number and sent in the 'mcid' XML GenericNumber element.  The Additional calling party number Address Presentation restriction indicator value APRI_value is mapped into the XML mcid GenericNumberPresentationRestriction is set to XML_gen_restr as indicated in table 6.3.6-4		
ISUP Parameter values	IRS: MCID response indicated in		
isor i arameter values	MCID included  Generic number  Additional calling Party number  Address presentation restriction indicator=APRI_value  Address signal		
SIP Parameter values	INFO:		
	<pre><?xml version="1.0" mcid response>     McidResponseIndicator&gt;1</pre> GenericNumber>derived from the Generic number Address signal     GenericNumberPresentationRestriction>XML_gen_restr INFO (IDR) no xml body present		
Comments			
Message flows	SIP-I	MGCF	SIPNNI
	INVITE (IAM)  180 Ringing (ACM − free)	<b>→</b> ←	INVITE 180 Ringing
	INFO (IDR)	<b>←</b>	INFO
	200 OK INFO →	<b>→</b>	200 OK INFO
	INEO (IDS)		INFO
	INFO (IRS) →	<b>→</b>	INFO 200 OK INFO
	200 OK INFO ←	=	
		Apply post test routi	ne

Table 6.3.6-4: Mapping of ISUP Additional calling party number APRI into XML GenericNumberPresentationRestriction

	APRI_value	XML_gen_restr
VA_01	Presentation restricted	True
VA_02	Presentation allowed	False

TP number	TP 406 005	Reference	[1], clause 7.2.1
			[2], clause 7.5.9.2.2
TSS reference	IMS-SS/MCID/		16 37
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3	3	
Test Purpose name	ISUP IDR is mapped into INFO	request	
Test Purpose	Ensure that on receipt of INFO		
	indicators indicator set to MCID		
	McidRequestIndicator is include	ed set to XML_McidReq as in	dicated in table 6.3.6-5
ISUP Parameter values	IDR: MCID request indicators	}	
	MCID_req		
SIP Parameter values	INFO:		
	xml version="1.0"</th		
	mcid		
	request>		
	McidRequestIndicator> <b>XML_McidReq</b> </th		
	HoldingIndicator>1 </th		
	INFO (IDR) no xml body preser	nt	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←	<b>←</b>	100 Trying
	INFO ←	<b>←</b>	INFO (IDR)
	200 OK INFO →	<b>→</b>	200 OK INFO
		Apply post test routine	

Table 6.3.6-5: Mapping of ISUP MCID request indicator into XML McidRequestIndicator

	MCID_req	XML_McidReq
VA_01	MCID not requested	0
VA_02	MCID requested	1

TP number	TP_406_006	Reference	[1], clause 7.2.1	
Transor	11 _ 100_000	Troi or or or	[2], clause 7.5.9.2.3	
TSS reference	IMS-SS/MCID/		[[2], olddoo 1.0.0.2.0	
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/3		
Test Purpose name	INFO request is mapped			
Test Purpose	· · · · · · · · · · · · · · · · · · ·		_ 'mcid' McidResponseIndicator is set to	
•			is sent. The MCID response indicator is	
	set to MCID_rsp as indic	cated in table 6.3.6-6	·	
ISUP Parameter values	IRS: MCID response i	ndicator		
	MCID_rsp			
SIP Parameter values	INFO:			
	xml version="1.0"</th <th></th> <th></th>			
	mcid	mcid		
	response>	response>		
		McidResponseIndicator> <b>XML_McidRsp</b> </th		
	INFO (IDR) no xml body present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying	<b>←</b>	<ul><li>100 Trying</li></ul>	
	INFO	<b>←</b>	← INFO (IDR)	
	200 OK INFO	<b>→</b>	→ 200 OK INFO	
	INFO	→	→ INFO (IRS)	
	200 OK INFO	<b>←</b>	← 200 OK INFO	
1	Apply post test routine			
		Apply post test	routine	

Table 6.3.6-6: Mapping of XML McidResponseIndicator into ISUP MCID response indicator

	XML_McidRsp	MCID_rsp
VA_01	0	MCID not included
VA_02	1	MCID included

TP number	TP_406_007	Reference	[1], clause 7.2.1
			[2], clause 7.5.9.2.3
TSS reference	IMS-SS/MCID/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3		
Test Purpose name	XML OrigPartyIdentity is mapp		
Test Purpose	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to <b>MCID_rsp</b> , an INFO with encapsulated ISUP IRS is sent.  The XML OrigPartyIdentity is mapped into the Calling party:		
	<ul> <li>If the country code of the OrigPartyldentity URI is equal to the country code where the SUT is located the Nature of address is set to 'National (significant) number', the '+' and the country code is removed from the user part of the XML OrigPartyldentity URI and send in the Address signals of the Calling party number.</li> <li>If the country code of the OrigPartyldentity URI is not equal to the country code where the SUT is located the Nature of address is set to 'International number', the '+' is</li> </ul>		
	signals of the Calling party The XML OrigPartyPresentatio Address presentation restrictio indicated in table 6.3.6-7	nRestriction value <b>XML_orig_</b> n indicator <b>APRI_value</b> of the	restr is mapped into the
ISUP Parameter values	IRS: MCID response indicator		
SIP Parameter values	INFO: <pre><?xml version="1.0"     mcid     response>         McidResponseIndication     OrigPartyIdentity&gt;ai         OrigPartyPresentation INFO (IDR) no xml body prese</pre>	ny valid URI <br onRestriction>XML_orig_rest	<b>r</b> </th
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	<b>→</b>	INVITE (IAM)
	100 Trying ←	<b>←</b>	100 Trying
	INFO ←	<b>←</b>	INFO (IDR)
	200 OK INFO →	<b>→</b>	200 OK INFO
	INFO ->		INFO (IRS)
	200 OK INFO ←	<b>←</b>	200 OK INFO
	Apply post test routine		

Table 6.3.6-7: Mapping of XML OrigPartyPresentationRestriction into ISUP Calling party number APRI

	XML_orig_restr	APRI_value
VA_01	True	Presentation restricted
VA_02	False	Presentation allowed

TP number	TP_406_008	Reference	[1], clause 7.2.1 [2], clause 7.5.9.2.3	
TSS reference	IMS-SS/MCID/		[[2], Gladde 7.0.0.2.0	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/3		
Test Purpose name	XML GenericNumber is mapp		alling Party number	
Test Purpose			dilling i dity ridiniser  1cidResponseIndicator is set to	
reat ranpess	MCID_rsp, an INFO with enco		iolarresponsemaloator is set to	
	The XML GenericNumber is n		ling party:	
			to the country code where the	
			Il (significant) number', the '+'	
		and the country code is removed from the user part of the XML GenericNumber URI		
		signals of the Additional callin		
			qual to the country code where	
		ature of address is set to 'Inte		
			r URI and send in the Address	
	signals of the Additional of			
	The XML GenericNumberPres	sentationRestriction value XM	L_gen_restr is mapped into the	
	Address presentation restriction	on indicator APRI_value of the	e Additional calling party	
	number as indicated in table 6			
ISUP Parameter values	IRS: MCID response indicator			
	MCID included			
	Generic number			
		Additional calling Party number Address presentation restriction indicator= <b>APRI_value</b>		
		on restriction indicator= <b>APRI</b> _	_value	
	Address signal			
SIP Parameter values	INFO:			
	xml version="1.0"</th			
		mcid		
	response> McidResponseIndi	cator>1/		
		erived from the Generic num	nhar Addrass signal	
	GenericNumberPresentationRestriction> <b>XML_gen_restr</b> </th			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
3	INVITE	<b>→</b>	INVITE (IAM)	
		÷	• •	
		÷ +	, ,	
	200 OK INFO	<b>→</b>	,	
		_		
	INFO -	<b>→</b>	INFO (IRS)	
	200 OK INFO			
		Apply post test routine		

Table 6.3.6-8: Mapping of XML GenericNumberPresentationRestriction into ISUP Additional calling party number APRI

	XML_gen_restr	APRI_value
VA_01	True	Presentation restricted
VA 02	False	Presentation allowed

### 6.3.7 Closed User Group (CUG)

TP number	TP_407_001	Reference	[1], clause 7.2.1 [2], clauses 7.5.10.1,	
			table, 7.5.10.1.1,	
			table, 7.5.10.1.1,	
TSS reference	IMS-SS/CUG/		144.00, 110.110.112	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/23		
Test Purpose name	Mapping of the SIP XML CUG parameter	Element to the ISUP closed	usergroup interlock code	
Test Purpose	Ensure that on receipt of an IN			
	application/vnd.etsi.cug+xml a			
	sent. The XML 'networkIndicat code Network Identity indicato	or is mapped into the ISUP C	naryCode' is mapped into the	
ISUP Parameter values	IAM:	ISUP Closed user group interlock code Binary code indicator  IAM:		
	Optional forward call indicator			
	Closed user group call indicator			
	Closed user group interlock code			
	Network Identity mapped from XML networkIndicator			
OID Deservation and the second	Binary code mapped from XML cugInterlockBinaryCode INVITE:			
SIP Parameter values		otoj oug ryml		
	Content-Type: application/vnd.etsi.cug+xml xml version="1.0"</th			
	cug			
		cator=any proper value		
		kBinaryCode=any proper va	llue	
		nicationIndicator		
	INVITE(IAM): no xml body pre	sent		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE		INVITE (IAM)	
	100 Trying €			
		Apply post test routine		

TP number	TP_407_002	Reference	[1], clause 7.2.1 [2], clauses 7.5.10.1,		
			table 7.5.10.1.1,		
T00	100000000000000000000000000000000000000		table, 7.5.10.1.3		
TSS reference	IMS-SS/CUG/	2/00			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	-,			
Test Purpose name		G Element to the ISUP closed u	iser group call indicator		
	included in the optional Forw				
Test Purpose		NVITE request containing the (			
		and the 'cug' XML body, an IN\			
	sent. The XML 'cugCommuni	cationIndicator' is mapped into	the ISUP Optional forward call		
	indicator Closed user group of	all indicator as indicated in tab	le 6.3.7-1		
ISUP Parameter values	IAM:				
	Optional forward call i	Optional forward call indicator			
	Closed user group	Closed user group call indicator=CUG_ind			
	Closed user group interlock code				
	Network Identity				
	Binary code				
SIP Parameter values	INVITE:				
	Content-Type: application/yn	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th				
	cug				
	networkInd	icator			
		cugInterlockBinaryCode cugCommunicationIndicator= <b>CUG_COM_ind</b>			
	INVITE(IAM): no xml body present				
Comments	intvite(i/ tivi): No xim body pr	000111			
Message flows	SIP NNI	MGCF	SIP-I		
	*** ****	<b>→</b>	INVITE (IAM)		
		÷	HAVIIE (IMIVI)		
	100 Tryllig	Apply post test routine			
	Apply post test routille				

Table 6.3.7-1: Mapping of XML cugCommunicationIndicator into ISUP Optional forward call indicator Closed user group call indicator

	CUG_COM_ind	CUG_ind
VA_01	00	non-CUG call
VA_02	01	Spare
VA_03	10	closed user group call, outgoing access allowed
VA_04	11	closed user group call, outgoing access not allowed

TP number	TP_407_003	Reference	[1], clause 7.2.1 [2], clauses 7.5.10.1,
			table, 7.5.10.1.4
TSS reference	IMS-SS/CUG/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	23	
Test Purpose name	Communication is released if the outgoing access	ne PSTN/ISDN network does n	ot support CUG, CUG without
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '11', the communication is released with 403 (Forbidden) final response if the PSTN/ISDN network does not support CUG		
ISUP Parameter values			
SIP Parameter values	INVITE: Content-Type: application/vnd. xml version="1.0" cug networkIndica cugInterlockE cuqCommun</th <th>ator</th> <th></th>	ator	
	INVITE(IAM): no xml body pres		
Comments			
Message flows	SIP NNI INVITE → 403 Forbidden ← ACK →		SIP-I
		Apply post test routine	

	I==	In (	Te.s . = = .	
TP number	TP_407_004	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.10.1,	
			table, 7.5.10.1.4	
TSS reference	IMS-SS/CUG/	IMS-SS/CUG/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23			
Test Purpose name	Communication is treated as	s an ordinary call if the PST	N/ISDN network does not support	
	CUG, CUG with outgoing ac			
Test Purpose	Ensure that on receipt of an	<b>INVITE</b> request containing	the Content-Type	
-	application/vnd.etsi.cug+xm	I and the 'cug' XML body the	e cugCommunicationIndicator set to	
			the PSTN/ISDN network does not	
			t present in the sent INVITE with	
	encapsulated IAM			
ISUP Parameter values	·			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkInd	dicator		
	cugInterlo	ckBinaryCode		
		unicationIndicator='10'		
	INVITE(IAM): no xml body present			
Comments	· · · · · · · · · · · · · · · · · · ·			
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	<b>→</b>	→ INVITE (IAM)	
	100 Trying ←			
	, 3	Apply post test routi	ne	

TP number	TP_407_005	Reference	[1], clause 7.2.1 [2], clauses 7.5.10.1,		
			table, 7.5.10.1.4		
TSS reference	IMS-SS/CUG/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	23			
Test Purpose name	Communication is treated as a CUG, Non-CUG call	n ordinary call if the PSTN/ISD	N network does not support		
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '00', the communication is treated as an ordinary call if the PSTN/ISDN network does not support CUG. A Closed user group interlock code is not present in the sent INVITE with encapsulated IAM				
ISUP Parameter values					
SIP Parameter values	INVITE: Content-Type: application/vnd. xml version="1.0" cug networkIndic cugInterlockI cugCommun INVITE(IAM): no xml body pres</th <th>ator BinaryCode icationIndicator=<b>'00'</b></th> <th></th>	ator BinaryCode icationIndicator= <b>'00'</b>			
Comments					
Message flows	SIP NNI INVITE → 100 Trying ←		<b>SIP-I</b> INVITE (IAM)		

TP number	TD 407 006	Reference	[1] alauga 7.2.1		
i P number	TP_407_006	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.10.2,		
T00 (	10.40.00/01/0/		table, 7.5.10.2.2		
TSS reference	IMS-SS/CUG/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	-·•			
Test Purpose name	Mapping of the ISUP closed us				
Test Purpose	Ensure that on receipt of an IN				
	interlock code parameter is pre	sent, an INVITE request is ser	nt. The Network Identity		
	indicator is mapped into the XII	//L networkIndicator element, t	ne Binary code is mapped into		
	the XML cugInterlockBinaryCo	de			
ISUP Parameter values	IAM:				
	Optional forward call indicator				
	Closed user group call indicator				
	Closed user group interlock code				
	Network Identity=any proper value				
	Binary code=any proper value				
SIP Parameter values	INVITE:				
	Content-Type: application/vnd.	etsi.cug+xml			
	xml version="1.0"</th <th>3</th> <th></th>	3			
	cug				
	networkIndicator= mapped from Network Identity				
		BinaryCode= mapped from E			
	cugCommunicationIndicator				
	INVITE(IAM): no xml body present				
Comments	international state process				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	<b>→</b>	INVITE		
		<b>+</b>	100 Trying		
		Apply post test routine	100 Trying		
		Apply post test routine			

TP number	TP_407_007	Reference	[1], clause 7.3.1			
			[2], clauses 7.5.10.2,			
			table, 7.5.10.2.3			
TSS reference	IMS-SS/CUG/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	23				
Test Purpose name	Mapping of the ISUP closed us					
Test Purpose	Ensure that on receipt of an IA	M and an Optional forward cal	I indicator is present set to			
	CUG_ind, an INVITE request i					
	from the ISUP Closed user gro	oup call indicator set to CUG_ir	nd as indicated in table 6.3.7-2			
ISUP Parameter values	IAM:					
	Optional forward call in	dicator				
	Closed user group call indicator=CUG_ind					
	Closed user group interlock code					
	Network Identity					
	Binary code					
SIP Parameter values	INVITE:					
	Content-Type: application/vnd.etsi.cug+xml					
	xml version="1.0"</th					
	cug					
	networkIndic	networkIndicator				
	cugInterlock	BinaryCode				
	cugCommunicationIndicator=CUG_COM_ind					
	INVITE(IAM): no xml body present					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
_	INVITE (IAM) →	<b>→</b>	INVITE			
	, ,	<b>←</b>	100 Trying			
		Apply post test routine	, , ,			

Table 6.3.7-2: Mapping of ISUP Optional forward call indicator Closed user group call indicator into XML cugCommunicationIndicator

	CUG_ind	CUG_COM_ind
VA_01	non-CUG call	00
VA_02	Spare	01
VA_03	closed user group call, outgoing access allowed	10
VA 04	closed user group call, outgoing access not allowed	11

	[2], clauses 7.5.10.2, 1.5.2.4.2/Q.735.1 1 not support CUG, CUG without	
ed if the IMS network does	1	
ed if the IMS network does		
ed if the IMS network does		
	not support CUG, CUG without	
on INIVITE with an agreement		
Ensure that on receipt of an INVITE with encapsulated IAM and the Optional forward call indicator Closed user group call indicator is set to closed user group call, outgoing access not allowed and the IMS network does not support the CUG supplementary service, a REL is sent and the Cause value is set to #29 Facility rejected the diagnostics indicating CUG without access		
call indicator roup call indicator=C UG ca o interlock code ty	Ill, outgoing access not allowed	
MGCF	SIP NNI	
<del>→</del> ←		
2	9 MGCF	

TP number	TP 407 009	Reference		[1], clause 7.3.1	
	1.1 = 1.07 = 0.00	11010101100		[2], clauses 7.5.10.2,	
				1.5.2.4.2/Q.735.1	
TSS reference	IMC CC/CLIC/			1.3.2.4.2/Q./33.1	
	IMS-SS/CUG/				
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/23 AND PICS (	5.3.10/1		
Test Purpose name	Communication is trea	ated as an ordinary call i	if the IMS netw	ork does not support CUG,	
	CUG with outgoing ac	ccess			
Test Purpose			onal forward ca	all indicator Closed user group	
				s allowed and the IMS network	
				nunication is treated as an	
		COG supplementary ser	vice, the comin	iunication is treated as an	
	ordinary call				
ISUP Parameter values	IAM:				
	Optional forwa	Optional forward call indicator			
	Closed use	er group call indicator=C	UG call, outgo	ing access allowed	
		roup interlock code	, 3	9	
	Network Identity				
	· ·				
OID Danamatananalara	Binary code	<u>e                                      </u>			
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	•	SIP NNI	
_	INVITE (IAM)	<b>→</b>	<b>→</b>	INVITE	
			<del>-</del>	100 Trying	
		Apply 2004	=	100 Hymig	
		Apply post	test routine		

#### 6.3.8 Void

## 6.3.9 Communication Waiting (CW)

TP number	TP_409_001	Reference	[1], clause 7.2.1	
			[2], clause 7.5.12	
TSS reference	IMS-SS/CW/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8	3		
Test Purpose name	Mapping of Generic notification Alert-Info header	'call waiting' in a 180 Ringing	with encapsulated ACM into	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM the Called party status indicator is set to 'subscriber free' and a Generic notification indicator parameter is present set to "Call is a waiting call', a 180 Ringing is sent. An Alert-Info header is present and the urn is set to 'urn:alert:service:call-waiting'			
ISUP Parameter values	ACM: Backward call indicator			
	Called party status indicator			
	Subscriber free			
	Generic notification			
	Call is a waiting call			
SIP Parameter values	180: Alert-Info			
	urn:alert:service:call-waiting			
	180 (ACM): ern not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE → INVITE (IAM)			
	180 Ringing ←	<b>←</b>	180 Ringing (ACM)	
		Apply post test routine	3 3 ( 10111)	

TP number	TP_409_002	Reference	[1], clause 7.2.1
			[2], clause 7.5.12
TSS reference	IMS-SS/CW/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8		
Test Purpose name	Mapping of Generic notification 'call waiting' in a 180 Ringing with encapsulated CPG into Alert-Info header		
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated CPG the Event indicator is set to 'Alerting' and a Generic notification indicator parameter is present set to "Call is a waiting call', a 180 Ringing is sent. An Alert-Info header is present and the urn is set to 'urn:alert:service:call-waiting'		
ISUP Parameter values	CPG: Event indicator Alerting Generic notification Call is a waiting of	all	
SIP Parameter values	180: Alert-Info     urn:alert:service:call-waiting 180 (ACM): ern not present		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	<b>→</b> →	INVITE (IAM)
		<b>+</b>	183 Session Progress (ACM)
	180 Ringing	<del></del>	180 Ringing (CPG)
		Apply post test routine	

TP number	TP_409_003	Reference	[1], clause 7.3.1
			[2], clause 7.5.12
TSS reference	IMS-SS/CW/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8		
Test Purpose name	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a 180 Ringing with encapsulated ACM		
Test Purpose	Ensure that on receipt of a 180 Ringing and an Alert Info header is present the value is set to 'urn:alert:service:call-waiting', an180 Ringing with encapsulated ACM is sent containing a Generic notification indication parameter set to 'Call is a waiting call'		
ISUP Parameter values	ACM: Backward call indicator		
	Called party status indicator		
	Subscriber free		
	Generic notification		
	Call is a waiting call		
SIP Parameter values	180: Alert-Info		
	urn:alert:service:call-waiting		
	180 (ACM): ern not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	<b>→</b>	INVITE
		<del>-</del>	100 Trying
	180 Ringing (ACM) ←	<del>-</del>	180 Ringing
	Apply post test routine		

TP number	TP_409_004	Reference	[1], clause 7.3.1
			[2], clause 7.5.12
TSS reference	IMS-SS/CW/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8		
Test Purpose name	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a 180 Ringing with encapsulated CPG		
Test Purpose	Ensure that on receipt of a 180 Ringing and an Alert Info header is present the value is set to 'urn:alert:service:call-waiting', a 180 Ringing with encapsulated CPG is sent containing a Generic notification indication parameter set to 'Call is a waiting call'. The Event indicator is set to 'Alerting'		
ISUP Parameter values	CPG: Event indicator  Alerting Generic notification Call is a waiting call		
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting 180 (ACM): ern not present		
Comments			
Message flows	SIP-I INVITE (IAM) →	MGCF  →  T i/w2 expired	SIP NNI INVITE 100 Trying
	CPG ← Apply post test routine	<b>←</b>	180 Ringing

# Annex A (informative): Bibliography

ETSI TS 102 710-1: "IMS Network Testing (INT); Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 8); Part 1: Protocol Implementation Conformance Statement (PICS)".

# History

Document history		
V1.1.1	October 2013	Publication