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IMS Network Testing (INT);
Interworking between the IP Multimedia (IM)
Core Network (CN) subsystem and
Circuit Switched (CS) networks (Release 8);
Part 2: Test Suite Structure and
Test Purposes (TSS&TP)

#### Reference

RTS/INT-00088-2

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#### **ETSI**

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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#### **Foreword**

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

The present document is part 2 of a multi-part deliverable covering the Conformance Test Specification of the Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 8), as identified below:

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

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

## 1 Scope

The present document specifies the Test Suite Structure and Test Purposes for SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks based on TS 129 163 [1] (Release 8).

#### 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 referenced 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 129 163: "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)".

- [2] 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)".
- [3] 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".

#### 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].

NOTE: This may contain additional information.

# 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

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 129 163 [1].

SIP-ISUP			
	Basic call	Sending_of_IAM	TP_101_xxx
		Sending_of_COT	TP_102_xxx
		Sending_of_SAM	TP_103_xxx
		Sending_of_18x	TP_104_xxx
		Sending_of_200_OK	TP_105_xxx
		Sending_of_REL	TP_106_xxx
		Receipt_of_REL	TP_107_xxx
		Receipt_of_RSC-GRS-CGB	TP_108_xxx
		Receipt_of_REFER	TP_109_xxx
		Autonomous_Release	TP_110_xxx

ISUP-SIP			
	Basic call	Sending_of_INVITE	TP_201_xxx
		Receipt_of_COT	TP_202_xxx
		Sending_of_ACM	TP_203_xxx
		Sending_of_CPG	TP_204_xxx
		Receipt_of_200_OK	TP_205_xxx
		Sending_of_ANM	TP_206_xxx
		Sending_of_CON	TP_207_xxx
		Receipt_of_4xx-5xx-6xx	TP_208_xxx
		Receipt_of_BYE	TP_209_xxx
		Receipt_of_REL	TP_210_xxx
		Receipt_of_RSC-GRS-CGB	TP_211_xxx
		Autonomous_Release	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 [1] 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: TP_ <group>_<nnn></nnn></group>			
<group> =</group>	group	3 digit field representing gro	oup 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 129 163 [1] 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 102 710-1 [2]. 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 [1] except stated explicitly.

# 6 Test purposes (TP)

# 6.1 SIP-ISUP protocol interworking

### 6.1.1 Incoming call interworking from SIP to ISUP at I-MGCF

#### 6.1.1.1 Sending of IAM

TP number	TP_101_001	Refe	rence		7.2.3.1	.1
TSS reference	SIP-ISUP/Basic call/S	ending_of_IAM	1/			
Selection criteria						
Test Purpose name	Sending of IAM					
Test Purpose	Ensure that on recepti message	ion of a SIP IN\	/ITE requesting	a sessi	on, the I-I	MGCF sends an IAM
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
		Арј	oly post test ro	utine		

TP number	TP_101_002			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
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 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 COT is sent			
ISUP Parameter values	<b>IAM:</b> Nature of connection indicator = 'continuity check performed on a previous circuit' or			
	'continuity check required'  COT: Continuity indicator = 'Continuity check successful'			
SIP Parameter values	INVITE: Supported: precondition, 100rel  SDP			
	183: Require: 100rel SDP			
	UPDATE: SDP			
	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	Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         +         +           183 Session Progress         ←         +         +           PRACK         →         +         +           200 OK (PRACK)         ←         +         +           UPDATE         →         COT         +			
	200 OK (UPDATE)			
	Apply post test routine			

TP number	TP_101_003		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2		
Test Purpose name	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 IAM is sent after the UPDATE was received. The		
	Nature of connection indicator is set to 'continuity check is not required'		
ISUP Parameter values	IAM: Nature of connection indicator = 'continuity check is not required'		
SIP Parameter values	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		
	192. Doguiro, 100rol		
	183: Require: 100rel SDP a=curr:gos local none		
	SDP a=curr:qos local none a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	a=conf:qos remote sendrecv		
	a-somiyos romoto somaroov		
	UPDATE:		
	SDP a=curr:qos local sendrecv		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	OOO 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	a dosigo mandalor, remote condicor		
Message flows	Mg MGCF ISUP		
	INVITE -		
	100 Trying ←		
	183 Session Progress ←		
	PRACK →		
	200 OK (PRACK) ←		
	UPDATE → IAM		
	200 OK (UPDATE) ←		
	Apply post test routine		

TP number	TP_101_004		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND PICS 6.2.1/2		
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 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 COT is sent		
ISUP Parameter values	<b>IAM:</b> Nature of connection indicator = 'continuity check performed on a previous circuit' or		
	'continuity check required'		
	COT: Continuity indicator = 'Continuity check successful'		
SIP Parameter values	INVITE: Require: 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		
	183: Require: 100rel		
	SDP a=curr:qos local none		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	a=conf:qos remote sendrecv		
	UPDATE:		
	DP 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 local sendrecv a=des:qos mandatory remote sendrecv		
Comments	, , , , , , , , , , , , , , , , , , , ,		
Message flows	Mg MGCF ISUP		
	INVITE → IAM		
	100 Trying ←		
	183 Session Progress ←		
	PRACK →		
	200 OK (PRACK) ←		
	UPDATÈ → COT		
	200 OK (UPDATE) ←		
	Apply post test routine		
	Et NE STEER		

TP number	TP_101_005	Reference	7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sendir	ng_of_IAM/		
Selection criteria	PICS 6.1.1/1 AND PICS 6.2	2.1/1 AND PICS 6.2.1/2		
Test Purpose name	Preconditions support indic	ated in the Require header		
Test Purpose			the support of Precondition is	
			e UPDATE was received. The	
		ator is set to 'continuity check		
ISUP Parameter values		n indicator = 'continuity check	is not required'	
SIP Parameter values	INVITE: Require: precon			
	SDP a=curr:qos lo			
	a=curr:qos remote none			
		andatory local sendrecv		
	a=des:qos no	one remote sendrecv		
	183: Require: 100rel			
	SDP a=curr:qos lo	ocal none		
	a=curr:qos re			
		andatory local sendrecv		
		andatory remote sendrecv		
		emote sendrecv		
	UPDATE:			
	SDP a=curr:qos lo	ocal 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			
		emote sendrecv		
		andatory local sendrecv		
		andatory remote sendrecv		
Comments		<u>-</u>		
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>		
	100 Trying	<b>←</b>		
	183 Session Progress	<b>←</b>		
	PRACK	<b>→</b>		
	200 OK (PRACK)	<b>←</b>		
	UPDATE	<b>→</b>	→ IAM	
	200 OK (UPDATE)	<b>←</b>		
		Apply post test routir	ne	

TP number	TP_101_006	Re	eference		7.3.3.1.1	
TSS reference	SIP-ISUP/Bas	ic call/Sending_of_l	AM/			
Selection criteria	PICS 6.1.1/2 A	AND PICS 6.2.1/1 A	ND PICS 6.2.1/2			
Test Purpose name	Preconditions	support indicated in	the Supported head	er CO	T procedure	supported
Test Purpose			cedure is successful			
			The IAM is immedia			
			cted'. After the UPDA			, a COT is sent
ISUP Parameter values			ator = 'COT to be exp			
			tinuity check success	ful'		
SIP Parameter values		ported: precondition				
		a=curr:qos local no				
		a=curr:qos remote i				
		a=des:qos mandato				
		a=des:qos none rer	note sendrecv			
	400. D	4001				
	183: Require:					
		a=curr:qos local no				
		a=curr:qos remote i				
		a=des:qos mandato				
			ory remote sendrecv			
		a=conf:qos remote	Sendrecv			
	UPDATE:					
		a=curr:qos local sei	ndrecy			
		a=curr:qos remote i				
		a=des:qos mandato				
			ory remote sendrecv			
	,					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
		a=des:qos mandato	ry local sendrecv			
		a=des:qos mandato	ory remote sendrecv			
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
	183 Session F					
	PRACK	<b>→</b>				
	200 OK (PRA	CK) ←				
	UPDATE	<b>→</b>		<b>→</b>	COT	
	200 OK (UPD)	ATE)				
			Apply post test rout	ine		
	<u> </u>	<u> </u>				

TP number	TP_101_007	Reference	7.3.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sending_of	_IAM/		
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1	AND NOT PICS 6.2.1/2		
Test Purpose name	Preconditions support indicated	in the Supported header		
Test Purpose	Ensure that the Preconditions p	rocedure is successful if t	he support of Precondition is	
	indicated in the Supported head	er. The IAM is sent after	the UPDATE was received. The	
	Nature of connection indicator is			
ISUP Parameter values	IAM: Nature of connection ind		pected'	
SIP Parameter values	<b>INVITE:</b> Supported: precondit			
	SDP a=curr:qos local r			
	a=curr:qos remote none			
		ntory local sendrecv		
	a=des:qos none r	emote sendrecv		
	192. Boguiro, 100rol			
	183: Require: 100rel SDP a=curr:gos local r	one		
	SDP a=curr:qos local r a=curr:qos remot			
		atory local sendrecv		
		atory remote sendrecv		
	a=conf:gos remot			
		0 00.10.001		
	UPDATE:			
	SDP a=curr:qos local s	endrecv		
	a=curr:qos remot	e none		
	a=des:qos manda	atory local sendrecv		
	a=des:qos mandatory remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv			
	a=curr:gos remot			
		atory local sendrecv		
		atory remote sendrecv		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->			
	100 Trying ←			
	183 Session Progress			
	PRACK →			
	200 OK (PRACK) ←			
	UPDATE →		→ IAM	
	200 OK (UPDATE) ←			
		Apply post test routing	e	
·				

TP number	TP_101_008			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
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 IAM is immediately sent. The Nature of connection			
	indicator is set to 'COT to be expected'. After the UPDATE was received, a COT is sent			
ISUP Parameter values	IAM: Nature of connection indicator = 'COT to be expected'			
	COT: Continuity indicator = 'Continuity check successful'			
SIP Parameter values	INVITE: Require: 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			
	   100 D			
	183: Require: 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv			
	a=coni.qos remote sentirecv			
	UPDATE:			
	SDP a=curr:gos local sendrecv			
	a=curr:gos remote none			
	a=des:gos mandatory local sendrecv			
	a=des:gos 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	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying			
	183 Session Progress			
	PRACK →			
	200 OK (PRACK) ←			
	UPDATE → COT			
	200 OK (UPDATE) ←			
	Apply post test routine			

TP number	TP_101_009			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
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 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'			
SIP Parameter values	INVITE: Require: 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			
	192) Doguiro, 100rol			
	183: Require: 100rel 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:qos remote sendrecv			
	a-com.qos remote sendrecv			
	UPDATE:			
	SDP a=curr:gos 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			
Comments	a=des:qos mandatory remote sendrecv			
	Ma MGCF ISUP			
Message flows	Mg MGCF ISUP  INVITE →			
	100 Trying $\leftarrow$			
	1.00 00000000			
	200 OK (PRACK)			
	UPDATE → IAM			
	200 OK (UPDATE)   Apply post test routing			
	Apply post test routine			

TP number	TP_101_010	Reference	7.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sending	_of_IAM/	•		
Selection criteria					
Test Purpose name	Unsupported media type is r	ejected 488 is sent			
Test Purpose		Ensure that an unsupported media type is rejected a 488 Not Acceptable Here final response is sent to the calling user			
ISUP Parameter values					
SIP Parameter values	INVITE:	INVITE:			
	SDP: m= video 4713 RT	P/AVP 31			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>			
	488 Not Acceptable Here	<del>(</del>			
	ACK .	<b>→</b>			

TP number	TP_101_011	Reference		7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria					
Test Purpose name	Unsupported media type is	s rejected session success	ful		
Test Purpose		Ensure that an unsupported media type is rejected. The SUT sends in the SDP answer the port number '0' for the concerned media type			
ISUP Parameter values					
SIP Parameter values	INVITE:  SDP: m=audio 4711 F  m= video 4713  180 Ringing or 183 Sessio  SDP: m=audio <appro 0="" m="video" rtp<="" th=""><th>RTP/AVP 31 on Progress opriate Port #&gt; RTP/AVP 8</th><th>i</th><th></th></appro>	RTP/AVP 31 on Progress opriate Port #> RTP/AVP 8	i		
Comments					
Message flows	Mg INVITE 100 Trying	MGCF → ←	<b>→</b>	ISUP IAM	
	CASE A 180 Ringing  CASE B 183 Session Progress	← ← Apply post test ro	<b>←</b> utine	ACM	

TP number	TP_101_012	Reference	7.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria					
Test Purpose name	Unsupported codec is deselected				
Test Purpose	Ensure that the SUT removes	a codec from the codec list in	the SDP answer if the codec is		
	an unsupported codec				
ISUP Parameter values					
SIP Parameter values	INVITE:				
	SDP: m=audio 4711 RTP/	AVP <unsupported codec=""> 8</unsupported>			
	180 Ringing or 183 Session Progress				
	SDP: m=audio <appropria< th=""><th>te Port #&gt; RTP/AVP 8</th><th></th></appropria<>	te Port #> RTP/AVP 8			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
		<b>←</b>	ACM		
	CASE A				
	180 Ringing ←				
	CASE B				
	183 Session Progress ←				
		Apply post test routine			

TP number	TP_101_013	Reference	7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	-			
Test Purpose name	INVITE request without SDP or	ffer received		
Test Purpose	Ensure that on receipt of an IN offer in the first reliable non-fai		offer, the SUT sends a SDP	
ISUP Parameter values				
SIP Parameter values	INVITE: Supported: 100rel			
	180 Ringing or 183 Session Pr			
Comments	SDP: m=audio 4711 RTP	AVP 8		
~ ~	84	MOOF	ISUP	
Message flows	Mg INVITE →	MGCF		
			IAM	
	100 Trying	· •	ACM	
	CASE A	•	ACIVI	
	·			
	180 Ringing ← PRACK →			
	200 OK PRACK			
	200 OK PRACK	•		
	CASE B			
	183 Session Progress ←	•		
	PRACK -	•		
	200 OK PRACK ←	•		
		Apply post test routine		

TP number	TP 101 014	Reference	7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria		<del>_</del>		
Test Purpose name	To header tag is sent in the	first provisional response		
Test Purpose	Ensure that a To header tag	is contained in the first provi	sional response	
ISUP Parameter values				
SIP Parameter values	INVITE: To: <uri></uri>			
	180 Ringing or 183 Session	Progress: To: <uri>; <tag></tag></uri>		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
			← ACM	
	CASE A			
	180 Ringing	<b>←</b>		
	CASE B			
	183 Session Progress	<b>←</b>		
		Apply post test routing	e	

TP number	TP_101_015	Reference	7.2.3.1.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria				
Test Purpose name	Coding of called party number			
Test Purpose	Ensure that an IAM is	Ensure that an IAM is sent after an INVITE request was received.		
	<ul> <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</li> </ul>			
ISUP Parameter values	(Recommendation ITU	)-1 E.104 [i.1])		
SIP Parameter values				
Comments				
Message flows	Ma	MGCF	ISUP	
Wessage HOWS	Mg INVITE	WIGCF	→ IAM	
		<b>→</b>	→ IAIVI	
	1.00,9			
		Apply post test r	outine	

TP number	TP_101_016	Reference	7.2.3.1	.2.1	
TSS reference	SIP-ISUP/Basic call/S	ending_of_IAM/			
Selection criteria	PICS 6.2.1/21				
Test Purpose name		cation is mapped into a l			
Test Purpose	Ensure that on receipt of a PSTN XML SendingCompleteIndication element a hex digit 'F' is sent al last digit in the called party number				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGC	F	ISUP	
	INVITE	<b>→</b>	→ IAM		
	100 Trying	<del>(</del>			
	Apply post test routine				

TP number	TP_101_017	Reference	7.2.3.1.2.2			
TSS reference	SIP-ISUP/Basic call/s		1.2.0			
Selection criteria	PICS 6.1.1/1	<u> </u>				
Test Purpose name	Nature of connection	indicator				
Test Purpose	The nature of connect Satellite indicator = Continuity check in or 'continuity check p Echo control device • TMR audio 3,1 k	Ensure that an IAM is sent after an INVITE request was received.  The nature of connection indicator 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 included'				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post tes	ISUP  → IAM  st routine			

TP number	TP_101_018	Reference	7.2.3.1.2.2	
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/		
Selection criteria	PICS 6.1.1/2			
Test Purpose name	Nature of connection indicator			
Test Purpose	Ensure that an IAM is sent after	r an INVITE request was re	ceived.	
	The nature of connection indicate	ator is set		
	Satellite indicator = 'no satelli	te circuit in the connection'		
	Continuity check indicator =	'no COT to be expected or	'COT to be expected'	
	Echo control device indicato	r = outgoing echo control de	evice included	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<del>-</del>	<b>→</b> IAM	
	100 Trying ←			
	Apply post test routine			

TD number	TD 101 010	Deference	7.2.3.1.2.3		
		Reference	1.2.3.1.2.3		
	SIP-ISUP/Basic call/Sending_o	of_IAM/			
Selection criteria	NOT PICS 6.2.1/5				
Test Purpose name	Forward Call indicator				
Test Purpose	Ensure that an IAM is sent afte	r an INVITE request was recei	ved. If no PSTN XML		
	attachment is present and the r	eceipt of TMR audio, the Forw	ard call indicator is coded as		
	follows:	•			
		or = ('00') no end-to-end metho	od available (only link-by-link		
	method available)				
	<ul> <li>Interworking indicator = ('1</li> </ul>	') interworking encountered			
	<ul> <li>End-to-end information ind</li> </ul>	licator = ('0') no end-to-end info	ormation available		
	<ul> <li>ISDN user part/BICC indicator = ('0') ISDN user part/BICC not used all the way</li> </ul>				
	ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required 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	Mg	MGCF	ISUP		
	INVITE > IAM				
	100 Trying ←				
	Apply post test routine				

TP number	TP_101_020	Reference	7.2.3.1.2.3
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria	NOT PICS 6.2.1/5 AND NOT F	PICS 6.2.1/6	
Test Purpose name	Forward Call indicator		
Test Purpose	method available) Interworking indicator = ('1 End-to-end information inc ISDN user part/BICC indic ISDN user part/BICC prefet the way	receipt of TMR 64 kBit/s has n ward call indicator is coded as tor = ('00') no end-to-end methodicator = ('00') no end-to-end infector = ('0') no end-to-end infector = ('0') ISDN user part/BIC erence indicator = ('01') ISDN u	o impact of the coding of the follows: od available (only link-by-link  ormation available C not used all the way user part/BICC not required all
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<del>=</del>	IAM
	100 Trying ←		
		Apply post test routine	

TP number	TP 101 021	Reference	7.2.3.1.2.3		
TSS reference	SIP-ISUP/Basic call/Sending of		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Selection criteria	PICS 6.2.1/6				
Test Purpose name	Forward Call indicator				
Test Purpose	Ensure that an 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 user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way				
	<ul> <li>ISDN access indicator = ('1') originating access ISDN</li> <li>SCCP method indicator = ('00') no indication</li> </ul>				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
		Apply post test routine			

TP number	TP_101_022	Reference	7.2.3.1.2.3, Table 02a
TSS reference	SIP-ISUP/Basic call/Sending_	of_IAM/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Forward Call indicator		
Test Purpose	method available)  End-to-end information inc  ISDN user part/BICC indic  ISDN user part/BICC prefithe way	gressIndicator value Progress vs: tor = ('00') no end-to-end me dicator = ('0') no end-to-end i cator = ('1') ISDN user part/Bl	sDescription = 6, the Forward thod available (only link-by-link information available
	<ul> <li>SCCP method indicator =</li> </ul>	, ,	
ISUP Parameter values	IAM: Forward call indicator		
SIP Parameter values	INVITE:		
	PSTM XML MIME body xml version="1.0" encoding: PSTN ProgressIndicator ProgressOctet3 CodingStandard 00 Location>yyyy< ProgressOctet4 ProgressDescription	)<	
Comments			
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM

TP number	TP_101_023	Reference	7.2.3.1.2.4	
TSS reference	SIP-ISUP/Basic call/Sending_c	of_IAM/		
Selection criteria				
Test Purpose name	Mapping of calling party categor	ory		
Test Purpose	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 Category :	= ISUP_CPC		
SIP Parameter values	INVITE: P-Asserted-Identity = PARAM, Accept-Language = SIP_LANG			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE 100 Trying ←	Apply post test routine	IAM	

Table 6.1.1.1-1: Coding of calling party category

Values for test purposes TP101032				
SIP_CPC	;	ISUP_CPC		
cpc received in a		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	7.2.3.	1.2.5		
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/				
Selection criteria						
Test Purpose name	Coding of TMR					
Test Purpose		Ensure that an IAM is sent after an INVITE request was received. The Transmission Medium Requirement parameter in the IAM is set according the mapping described				
ISUP Parameter values	IAM: TMR					
SIP Parameter values	INVITE: SDP m line a attributes					
Comments						
Message flows	Mg INVITE 100 Trying	<b>→</b> ←	GCF → IAM t test routine	ISUP		

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< td=""><td>TMR codes</td></encoding<></dynamic-pt>	TMR codes
				name> <clock rate="">[<encoding< td=""><td></td></encoding<></clock>	
				parameters>]	
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></dynamic-pt>	"64 kbit/s unrestricted"
				CLEARMODE/8000	
VA_06	image	Udptl	t38	Based on ITU-T T.38 [4]	"3,1 kHz audio"
VA_07	image	tcptl	t38	Based on ITU-T T.38 [4]	"3,1 kHz audio"

TP number	TP_101_025	Reference	7.2.3.1.2.5
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	·
Selection criteria			
Test Purpose name	Coding of USI		
Test Purpose	Ensure that an IAM is sent after Information parameter in the IA if present.		
ISUP Parameter values	IAM: USI		
SIP Parameter values	INVITE: SDP m line a attributes		
Comments			
Message flows	Mg INVITE → 100 Trying ←	=	ISUP IAM

#### Table 6.1.1.1-3: Coding of USI

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

TP number	TP 101 026	Refere	nce	7.2.3.1.	2.5
TSS reference	SIP-ISUP/Basic call/S	ending_of_IAM/		,	
Selection criteria					
Test Purpose name	Coding of HLC				
Test Purpose	Ensure that an IAM is Compatibility parameter table 6.1.1.1-4				
ISUP Parameter values	IAM: HLC				
SIP Parameter values	INVITE: SDP m line a attributes				
Comments					
Message flows	Mg INVITE 100 Trying	→ ←	MGCF	→ IAM	ISUP

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 ITU-T T.38 [4]	"Facsímile Group 2/3"
VA_02	image	tcptl	t38	Based on ITU-T T.38 [4]	"Facsímile Group 2/3"

TP number	TP_101_027	Reference	7.2.3.1.2.5
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML HighLa	yerCompatibility	
Test Purpose	Ensure that on receipt of a PS HighLayerCompatibility elemer IE present in an ISUP Access derived from the PSTN XMLHi	nt, this information is mapped in Transport Parameter the High	nto a High Layer Compatibility Layer Characteristics value is
ISUP Parameter values	IAM: ATP High Layer Compatibility High Layer Characterist	tics> <b>HLC_value</b>	
SIP Parameter values	INVITE: PSTN XML MIME body xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4	="utf-8"?> )<	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →		IAM
		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	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML LowLa	yerCompatibility				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a					
	LowLayerCompatibility elemen	nt, this information is mapped ir	to a Low Layer Compatibility			
	IE present in an ISUP Access	Transport Parameter the Inforn	nation Transfer Capability			
	value is derived from the PSTI	N XMLInformationTransferCapa	ability element			
ISUP Parameter values	IAM:					
	ATP Low Layer Compatibility					
	InformationTransferCap	pability=ITC_VA				
SIP Parameter values	INVITE:					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00	)<				
		Capability> <b>ITC_VA</b> <				
	LLOctet4>					
	TransferMode>00<					
	InformationTransfer	Rate>10000<				
Comments						
Message flows	Mg	MGCF	ISUP			
	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 4	'10001'	7 kHz audio

TP number	TP 101 029	Reference	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/Se	nding of IAM/				
Selection criteria	PICS 6.2.1/5	<u>g_</u> <u>-</u>				
Test Purpose name	Mapping of PSTN XML BearerCapability into TMR and USI					
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a BearerCapability element, this information is mapped into a <b>User Service Information</b> Parameter the Information Transfer Capability value is derived from the PSTN XMLInformationTransferCapability element					
ISUP Parameter values	IAM: USI Information Transfer Capability=ITC_value					
SIP Parameter values	BCoctet4 TransferMod InformationT BCoctet5 Layer1Identi	dard>00< TransferCapability>ITC_value le>00< TransferRate>10000<	o<			
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test re	ISUP → IAM  putine			

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	7.2.3.1.2.5				
TSS reference	SIP-ISUP/Basic call/Sending_o	of IAM/	1				
Selection criteria		PICS 6.2.1/5AND PICS 6.2.1/7					
Test Purpose name	Mapping of PSTN XML HighLa	yerCompatibility into User Te	eleservice Information				
-	parameter						
Test Purpose	Ensure that on receipt of a PS	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a					
-	HighLayerCompatibility elemen	nt, this information is mapped	into a <b>Úser Teleservice</b>				
	Information parameter the High	gh Layer Characteristics value	e is derived from the PSTN				
	XML HighLayerCharacteristics	element					
ISUP Parameter values	IAM:						
	UTI						
	High Layer Characteris	tics>HLC_value					
SIP Parameter values	INVITE:	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	l>01<					
	HLOctet4						
	HighLayerCharacte	ristics>HLC_value<					
Comments							
Message flows	Mg	MGCF	ISUP				
	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	'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_031	Reference	7.2.3.1.2.5a				
TSS reference	SIP-ISUP/Basic ca	all/Sending_of_IAM/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Fall Back connecti						
Test Purpose	Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME body:						
	The first stated codec in the SDP m line is the equivalent to the second						
	BearerCapability element, the BearerCapability element is mapped into the User						
			nt IAM, the TMR is set according the				
		XML InformationTransferCapabi					
		tated codec in the SDP m line is t					
			element is mapped into the User				
			t IAM, the TMR prime is set according				
		XML InformationTransferCapabi	lity value				
ISUP Parameter values	IAM:	ti T f O b llit -					
		ormationTransferCapability InformationTransferCapability					
	USI = first BearerC						
		id BearerCapability					
SIP Parameter values	INVITE: PSTN X						
on raramotor rarace		O" encoding="utf-8"?>					
	PSTN	<b>3</b>					
	BearerCapabi	lity					
	BCoctet3						
		Standard>00<					
		tionTransferCapability>00000<					
	or	T ( C L. 1211 40000					
	Informa	tionTransferCapability>10000<					
	BearerCapabi	lity					
	BCoctet3						
	CodingStandard>00<						
	Informa	tionTransferCapability>10001<					
Comments	SDP: m line contai	ins as the first codec CLEARMOD	DE and as the second codec a G.711				
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
	, ,	Apply post test re	outine				

TP number	TP_101_032			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Fall Back connection type is not sent			
Test Purpose name Test Purpose	<ul> <li>Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME body:         <ul> <li>The first stated codec in the SDP m line is the equivalent to the second BearerCapability element, the BearerCapability element is mapped into the User Service prime (USI prime) parameter in the sent IAM, the TMR is set according the second PSTN XML InformationTransferCapability value</li> <li>The second stated codec in the SDP m line is the equivalent to the first BearerCapability element, the BearerCapability element is mapped into the User Service Information (USI) parameter in the sent IAM, the TMR prime is set according the first PSTN XML InformationTransferCapability value</li> </ul> </li> <li>Ensure that the IAM does not contain the Fallback connection type if the succeeding network does not support the Fallback connection type:         <ul> <li>TMR = Speech or audio 3,1 kHz</li> </ul> </li> </ul>			
	<ul> <li>USI = Speech or audio 3,1 kHz</li> <li>A TMR prime parameter is not present</li> </ul>			
	A USI prime is not present			
ISUP Parameter values	IAM: TMR = first InformationTransferCapability TMR prime = is not present USI = speech or audio 3,1 kHz USI = in not present			
SIP Parameter values	USI prime = is not present  INVITE: PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN  BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>00000< or InformationTransferCapability>10000< BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>10001< SDP:  m=audio <pre> proper port number&gt; RTP/AV/P CLEARMODE 8</pre>			
Comments	m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8  SDP: m line contains as the first codec CLEARMODE and as the second codec a G.711 codec  Configuration: the succeeding network does not support the Fall back connection type</proper>			
Message flows	Mg MGCF ISUP  INVITE → IAM  100 Trying ←  Apply post test routine			

TP number	TP_101_033	Referei	nce	7.2.3.1.	2.9
TSS reference	SIP-ISUP/Basic call/S	ending_of_IAM/			
Selection criteria	PICS 6.2.1/8				
Test Purpose name	Max-Forwards receive	ed, HOP is sent			
Test Purpose	Ensure that on receipt counter. The value of a given factor				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg		MGCF		ISUP
	INVITE	<b>→</b>		→ IAM	
	100 Trying	<b>←</b>	, post tost rout	ina	
	Apply post test routine				

TP number	TP_101_034	Reference	7.2.3.1.2.10		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a ProgressIndicator element, this information is mapped into a Progress Indicator IE present in an ISUP Access Transport Parameter the Progress description value is derived from the PSTN XML ProgressDescription element				
ISUP Parameter values	IAM:				
	ATP Progress Indicator				
	Progress Description=P	l_value			
SIP Parameter values	INVITE:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location>0000<				
	ProgressOctet4				
	ProgressDescription	>PI_value<			
Comments		·			
Message flows	Mg	MGCF	ISUP		
	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	'000010'	Destination address is non-ISDN
PI_VA_3	'000011'	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	7.2.3.1.2A.1.1			
TSS reference	SIP-ISUP/Basic call/Ser	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.2.2/1	PICS 6.2.2/1				
Test Purpose name	Number Portability Sepa	arate Directory Number Add	ressing Method is used. A Called			
	Directory Number is pre	sent in the sent IAM	-			
Test Purpose			containing the <b>rn</b> and <b>npdi</b> parameters			
	in the request line, an IAM is sent. The <b>Called Party Number</b> is set to:					
			g number in national (significant)			
			er" <b>or</b> "Network routing number in			
	network specific nu	mber format"				
			o internal network number not allowed			
		ndicator: ISDN (Telephony)	numbering plan (Recommendation			
	<i>E.164 [</i> i.1 <i>]</i> )					
	_	erived from the user info of	the request URI the country code is			
	removed.					
	The Called Directory N					
	Nature of address indicator "National (significant) number"					
		internal feet of the feet of t				
	<b>.</b>	ndicator: ISDN (Telephony)	numbering plan (Recommendation			
	<i>E.164 [</i> i.1 <i>]</i> )					
	_	•	er 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:	0 11 15:				
OID D	Called party number, Called Directory Number					
SIP Parameter values	INVITE:					
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>					
Comments	The URI parameters can be received in arbitrary order					
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>+</b>	autin a			
		Apply post test r	outine			

TP number	TP_101_036	Reference	7.2.3.1.2A.1.2		
TSS reference	SIP-ISUP/Basic ca	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.2/2	-			
Test Purpose name	Number Portability present	Number Portability Concatenated Addressing Method is used. The called party number is present			
Test Purpose	<ul> <li>in the request line,</li> <li>Nature of add directory numb</li> <li>Internal Netwo</li> <li>Numbering pl E.164 [i.1])</li> <li>Address Sign Number contains</li> </ul>	an IAM is sent. The Called Part less indicator: "Network routing per" or "National (significant) number Number Indicator: routing than Indicator: ISDN (Telephony) al: derived from the rn parameter ins an E164 number the country nged. The called party number d	g number concatenated with called		
ISUP Parameter values	IAM: Called party nu	mber			
SIP Parameter values	INVITE:		er Portability Routing Number>; npdi		
Comments	The URI parameters can be received in arbitrary order				
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	100 Trying	<b>←</b>			
	Apply post test routine				

TP number	TP_101_037	Reference	7.2.3.1.2A.1.3			
TSS reference	SIP-ISUP/Basic call/Sending_	of_IAM/				
Selection criteria	PICS 6.2.2/3					
Test Purpose name	Number Portability Separate Network Routing Number is p	resent in the sent IAM				
Test Purpose		Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters				
		in the request line, an IAM is sent. The <b>Called Party Number</b> is set to:				
		ator: "National (significant)				
			rnal network number not allowed bering plan ( <i>Recommendation</i>			
	<ul> <li>Address Signal: derived removed.</li> </ul>	from the user info of the re	equest URI the country code is			
	The Network Routing Number	er 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])					
		radios signal delived from the in parameter if the radius in recasiny reducing				
	Number contains an E164 number the country code is removed else the address digits applied unchanged					
ISUP Parameter values	IAM:					
	Called party number, Netw	ork Routing Number				
SIP Parameter values	INVITE:					
			rtability Routing Number>; npdi			
Comments	The URI parameters can be re					
Message flows	Mg	MGCF	ISUP			
	INVITE		→ IAM			
	100 Trying ←					
	Apply post test routine					

TP number	TP_101_038	Reference	7.2.3.1.2A.2	
TSS reference	SIP-ISUP/Basic call/	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.2/1 OR PIC	CS 6.2.2/2 OR PICS 6.2.2/3 AN	ND PICS 6.2.2/4	
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 IAM is sent. The 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:			
Comments				
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test i	ISUP → IAM  routine	

TP number	TP_101_039	Reference	7.2.3.1.2A.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.2/1 OR PICS 6.2.2/2	OR PICS 6.2.2/3 AND PICS 6.	2.2/4	
Test Purpose name	Sending of Number Portability			
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 IAM is sent. The IAM contains the Number Portability Forward Information parameter set according the following roles:  If the Number Portability Database Dip Indicator is present, and a Number Portability Routing Number is present, set to "number portability query done for called number, 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>			
Comments			-	
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←	Apply post test routine		

TP number	TP_101_040	Reference	7.2.3.1.2A.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.2/1 OR PICS 6.	2.2/2 OR PICS 6.2.2/3 AN	D PICS 6.2.2/4	
Test Purpose name	Sending of Number Porta	bility Forward Information		
Test Purpose	Ensure that on receipt of an initial INVITE request containing the <b>rn</b> parameters in the request line, an IAM is sent. The IAM contains the Number Portability Forward Information parameter set according the following roles:  If there is no Number Portability Database Dip Indicator, set to "number portability query not done for called number"			
ISUP Parameter values	IAM: Number Portability Fo	rward Information		
SIP Parameter values	INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing=""></number></called>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE 100 Trying	→ ←	→ IAM	
	Apply post test routine			

TP number	TP_101_041	Reference	7.2.3.1.2B.1	
TSS reference	SIP-ISUP/Basic call/Send	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.2/5 AND PICS 6	.2.2/6 AND PICS 6.2.2/8		
Test Purpose name	Request URI cic paramete	er is mapped into IAM TNS	parameter	
Test Purpose	Ensure that on receipt of an initial INVITE request containing the cic parameter in the request line, an IAM is sent. The Transit network selection parameter is set to:  Type of network identification: CCITT-standardized identification 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 selecti	ion		
SIP Parameter values	INVITE:			
Comments		•		
Message flows	Mg INVITE 100 Trying	MGCF →	ISUP → IAM	
	Apply post test routine			

TP number	TP_101_042	Reference	7.2.3.1.2B.2		
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.2/5 AND PICS 6.2.2/	7 AND PICS 6.2.2/8 AND PICS	6.2.2/9		
Test Purpose name	Carrier Selection Information p	arameter is sent			
Test Purpose	the request line, an IAM is sen	Ensure that on receipt of an initial INVITE request containing the <b>cic</b> and <b>dai</b> parameter in the request line, an IAM is sent. The Carrier Selection Information parameter is set to the values indicated in table 6.1.1.1-10			
ISUP Parameter values	IAM: Carrier Selection Information	on			
SIP Parameter values	INVITE:  Request URI: sip: <called number="">; cic=&lt; Carrier identification code &gt;; dai= SIP dai</called>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → 100 Trying ←		IAM		
	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 COT

TP number	TP_102_001		
TSS reference	SIP-ISUP/Basic call/Sending_of_COT/		
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4		
Test Purpose name	Sending of ISUP COT		
Test Purpose	If the IAM has already been sent, the Continuity message shall be sent indicating		
	"continuity check successful", when all of the following conditions have been met:		
	<ul> <li>the requested preconditions (if any) in the IMS network have been met</li> </ul>		
	a possible outstanding continuity check procedure is successfully performed on the		
	outgoing circuit		
ISUP Parameter values	IAM: Nature of connection indicator = "Continuity check performed on a previous circuit"		
	or "Continuity check required on this circuit"		
	COT continuity indicator: Continuity check successful		
SIP Parameter values	INVITE: Require: precondition		
	SDP a=curr:qos local none		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos none remote sendrecv		
	183: Require: 100rel		
	SDP a=curr:qos local none		
	a=curr:qos remote none		
	a=des:gos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	a=conf:qos 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		
	COO CIVILIDATE		
	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	a-des.qus mandatory remote sendred		
Message flows	Mg MGCF ISUP		
	INVITE   INVITE		
	100 Trying ←		
	183 Session Progress		
	PRACK		
	200 OK (PRACK)		
	UPDATE → COT		
	200 OK (UPDATE) ←		
	Apply post test routine		
<u> </u>			

TP number	TP_102_002					
TSS reference	SIP-ISUP/Basic call/Sending_of_COT/					
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4					
Test Purpose name	Sending of BICC COT					
Test Purpose	If the IAM has already been sent, the Continuity message shall be sent indicating					
-	"continuity check successful", when all of the following conditions have been met:					
	the requested preconditions (if any) in the IMS network have been met					
	a possible outstanding continuity check procedure is successfully performed on the					
	outgoing circuit					
ISUP Parameter values	IAM: Nature of connection indicator = "COT to be expected"					
	COT continuity indicator: Continuity check successful;					
SIP Parameter values	INVITE: Require: precondition					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos none remote sendrecv					
	400- Paraviras 400-sl					
	183: Require: 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	a-coni.qos remote sendreov					
	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	Mg MGCF ISUP					
	INVITE → IAM					
	100 Trying ←					
	183 Session Progress					
	PRACK -					
	200 OK (PRACK) ←					
	UPDATE → COT					
	200 OK (UPDATE)					
	Apply post test routine					

## 6.1.1.3 Sending of SAM

TP number	TP_103_001	Reference		7.2.3.1.3A.2			
TSS reference	SIP-ISUP/Basic call/Send			7.2.0.1.07.2			
Selection criteria	PICS 6.2.3/1	uirig_oi_o/\ivi					
Test Purpose name		conding of CAM					
		Receipt of INFO request, sending of SAM					
Test Purpose		Ensure that on receipt of an INVITE request containing a Supported: 100rel or Required:					
	100rel a 183 Session Progress is sent indicating the overlap capability in the Supported:						
	100rel or Required: 100re		- LMCCE	-ives additional digita. Th	_		
	After the ISUP IAM mess			eives additional digits. Th	ie		
IOUD D	additional digits are recei	ved in in-dialog SIP II	NFO requests				
ISUP Parameter values		0 1					
SIP Parameter values	INVITE: Supported: 10						
	183 Session Progress: S	upported: 100rel or R	equired: 100re	el			
	INFO:						
	Content-Type: applica	ation/x-session-info					
	SubsequentDigit: <ad< th=""><th>lditional digits&gt;</th><th></th><th></th><th></th></ad<>	lditional digits>					
Comments							
Message flows	Mg	MGC	F	ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying	<del>(</del>					
	183 Session Progress	<b>←</b>					
	INFO	<b>→</b>	<b>→</b>	SAM			
		<del>-</del>	7	SAIVI			
	200 OK (INFO)	~					
	INFO	<b>→</b>	<b>→</b>	SAM			
	200 OK (INFO)	<b>←</b>					
	, ,	Apply post t	est routine				

TP number	TP_103_002	Reference	7.2.3	.1.3A.3				
TSS reference	SIP-ISUP/Basic call/Sending_of_SAM/							
Selection criteria	PICS 6.2.3/2							
Test Purpose name	Receipt of multiple INVITE request, sending of SAM							
Test Purpose	After the ISUP IAM message I	After the ISUP IAM message has been sent the I-MGCF receives additional digits. The						
	additional digits are received i	additional digits are received in multiple SIP INVITE requests						
ISUP Parameter values								
SIP Parameter values								
Comments								
Message flows	Mg	MGCF		ISUP				
	INVITE(1)	<b>→</b>	<b>→</b>	IAM				
	CASE A							
	INVITE(2)	<b>→</b>	<b>→</b>	SAM				
	484 Address Incomplete(1)	<b>←</b>						
	ACK	<b>→</b>						
	INVITE(3)	<b>→</b>	<b>→</b>	SAM				
	484 Address Incomplete(2)	<b>←</b>						
	ACK	<b>→</b>						
	180 Ringing(3)	<b>←</b>	<b>←</b>	ACM				
	CASE B							
	484 Address Incomplete(1)	<b>←</b>						
	ACK	<b>→</b>						
	INVITE(2)	<b>→</b>	<b>→</b>	SAM				
	484 Address Incomplete(2)	<b>←</b>						
	ACK	<b>→</b>						
	INVITE(3)	<b>→</b>	<b>→</b>	SAM				
	180 Ringing(3)	<b>←</b>	<b>←</b>	ACM				
		Apply post test routine						

TP number	TP_103_003	Reference	7.2.3.1.3A.3				
TSS reference	SIP-ISUP/Basic call/Sending_c	of_SAM/					
Selection criteria	PICS 6.2.3/2						
Test Purpose name	Receipt of multiple INVITE requ	uest, unsuccessful					
Test Purpose	After the ISUP IAM message h						
		additional digits are received in multiple SIP INVITE requests. If the number of digits					
	contained in the Request line is						
		the communication, then the SUT shall immediately send a 484 Address Incomplete					
	response for this INVITE. In thi	s case, no SAM shall be sent to	o BICC/ISUP procedures				
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE(1)	<b>→</b>	→ IAM				
	CASE A	_					
	INVITE(2)	<b>→</b>					
	484 Address Incomplete(1)	<del>(</del>					
	ACK	<b>→</b>					
	CASE B	-					
	484 Address Incomplete(1)	<del>(</del>					
	ACK	<b>→</b>					
	INDUITE (O)						
	INVITE(2)	<b>→</b>					
	484 Address Incomplete(2)	<b>←</b> →					
	ACK	7					
		Apply post test routine					

## 6.1.1.4 Sending of 18x provisional responses

TP number	TP_104_001	Reference	e	7.2.3.1.4				
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_18x/						
Selection criteria								
Test Purpose name	Sending of 180 Ringing after ACM was received							
Test Purpose	The SUT shall send the SIP 180 Ringing when receiving the following messages: - ACM with Called party's status indicator set to subscriber free							
ISUP Parameter values	ACM: BCI Called par	ty status indicator =	subscriber free					
SIP Parameter values								
Comments								
Message flows	Mg		MGCF	ISUP				
	INVITE	<b>→</b>	→	IAM				
	100 Trying	<b>←</b>						
	180 Ringing	<b>←</b>	<b>←</b>	ACM				
		Apply p	ost test routine					

TP number	TP_104_002	Refer	ence	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Se	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria							
Test Purpose name	Sending of 180 Ringing	g after CPG wa	as received				
Test Purpose		The SUT shall send the SIP 180 Ringing when receiving the following messages: - CPG with Event indicator set to ALERTING.					
ISUP Parameter values		ACM: BCI Called party status indicator = no indication CPG: Event indicator = ALERTING					
SIP Parameter values							
Comments							
Message flows	Mg		MGCF	ISUP			
	INVITE 100 Trying	<b>→</b>	<b>→</b>	IAM			
	, and the same of		<b>←</b>	ACM(no indication)			
	180 Ringing	<b>←</b> App	← bly post test routine	CPG(ALERTING)			

TP number	TP_104_003	Referer	nce	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Ser	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9					
Test Purpose name	ACM received, P-Earl-M	ACM received, P-Earl-Media header present in 180					
Test Purpose		Ensure that on receipt of an ACM free a 180 Ringing is sent. In the 180 Ringing a P-Early-Media header is present indicating authorization of early media					
ISUP Parameter values	IAM: 3,1 kHz audio	•					
	ACM: BCI Called party	status indicator	= free				
SIP Parameter values	INVITE:	INVITE:					
	Supported: 100rel						
	P-Early-Media: supp	P-Early-Media: supported					
	180 ringing						
	P-Early-Media: < authorization of early media>						
Comments							
Message flows	Mg		MGCF	ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM(free)			
	PRACK	<b>→</b>					
	200 OK (PRACK)	<b>←</b>					
		Apply	post test routine				

TP number	TP_104_004	Reference		7.2.3.1.4	
TSS reference	SIP-ISUP/Basic call/S	ending_of_18x/		•	
Selection criteria	PICS 6.2.1/10				
Test Purpose name	Provide media in a Ca	II-Info header field, o	r an Alert-Info he	ader field in a 180	
Test Purpose	Ensure that the SUT is able to provide media instead of the in-band media received from the PSTN in a Call-Info header field, or an Alert-Info header field present in a 180 Ringing				
ISUP Parameter values	ACM: BCI Called part	ty status indicator = s	ubscriber free	·	
SIP Parameter values	180: Call-Info: <media r<br="">Alert-Info: <media< th=""><th></th><th></th><th></th></media<></media>				
Comments					
Message flows	Mg INVITE 100 Trying 180 Ringing	→ ← ←	GCF	ISUP IAM ACM	

TP number	TP_104_005	Reference	7.2.3.1.4A				
TSS reference	SIP-ISUP/Basic call/Send	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/10						
Test Purpose name	Provide media in a Call-Ir	nfo header field, or an Ale	rt-Info header field in a 183				
Test Purpose		Ensure that the SUT is able to provide media instead of the in-band media received from the PSTN in a Call-Info header field, or an Alert-Info header field present in a 183 Session Progress					
ISUP Parameter values	ACM: BCI Called party s	ACM: BCI Called party status indicator = no indication					
SIP Parameter values		183: Call-Info: <media resource="">; or Alert-Info: <media resource=""></media></media>					
Comments							
Message flows	Mg INVITE 100 Trying 183 Session Progress	MGCF  →  ←  Apply post test	ISUP  → IAM  ← ACM(no indication)  routine				

TD	TD 404 000	D-f	7.004.4				
TP number	TP_104_006	Reference	7.2.3.1.4				
T00		f 40::/	table 7a.0f				
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/						
Selection criteria		PICS 6.2.1/5					
Test Purpose name	Mapping of Progress Indicator						
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The Progress Indicator IE contained in the ACM or CPG ATP parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2.						
	is sent in the PSTN XML e	d in an ACM called party statulement contains the Progressl	ndicator value PI_value				
		d in an CPG Event indicator Al contains the ProgressIndicato					
ISUP Parameter values	ACM: CASE A BCi Called party status = subscriber free ATP contains a Progress Indicator IE  CASE B BCi Called party status = no indication						
	oBCi 'inba	and info available'					
	CPG: ATP contains a Progres	s Indicator IE					
SIP Parameter values	180: xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet3 CodingStandard 00 Location ProgressOctet4 ProgressDescription	<					
Comments							
Message flows	Mg INVITE →	MGCF →	ISUP IAM				
	CASE A 180 Ringing ←	<b>←</b>	ACM				
	CASE B  183 Session Progress  180 Ringing	<del>&lt;</del>	ACM CPG				
	180 Ringing ←	Apply post test routine	OI G				

TSS reference  SIP-ISUP/Basic call/Sending_of_18x/  PICS 6.2.1/5  Test Purpose name  Mapping of High layer compatibility received in a ACM/CPG  Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM 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 ACM Called party Status Subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value
PICS 6.2.1/5   Mapping of High layer compatibility received in a ACM/CPG
Test Purpose name  Mapping of High layer compatibility received in a ACM/CPG  Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM 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
<ul> <li>Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.</li> <li>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</li> </ul>
<ul> <li>indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.</li> <li>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</li> </ul>
ACM 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
<ul> <li>element in the 180 as indicated in table 6.1.1.4-3.</li> <li>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</li> </ul>
<ul> <li>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</li> </ul>
Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value
HLC_value
Ligh lover competibility received in an ODO Event indicate ALEDTINO 400 Division is
<ul> <li>High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is</li> </ul>
sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value
<b>ISUP Parameter values</b> 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><?xml version="1.0" encoding="utf-8"?> PSTN</pre>
HighLayerCompatibility
HLOctet3
CodingStandard>00<
Interpretation>100<
PresentationMethod>01<
HLOctet4
HighLayerCharacteristics> <b>HLC_value</b> <
Comments
Message flows Mg MGCF ISUP
INVITE → IAM
CASE A
180 Ringing ← ← ACM
CASE B
183 Session Progress ← ← ACM
180 Ringing ← ← CPG
Apply post test routine

TP number	TP_104_008	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending_c	f 18v/	table 7a.0f			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Low layer compatib	sility received in a ACM/CPG				
Test Purpose						
rest r ur pose	Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The Low layer compatibility IE contained in the ACM or CPG ATP parameter is mapped into the LowLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-4.  • Low layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the LowLayerCompatibility value ITC_value					
			ator ALERTING 180 Ringing is Compatibility value ITC_value			
ISUP Parameter values	ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low layer compatibility IE  CASE B  BCi Called party status = no indication oBCi 'inband info available'					
	CPG: ATP contains a Low lay	er compatibility IE				
SIP Parameter values	180: xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000<					
Comments						
Message flows	Mg INVITE →	MGCF →	<b>ISUP</b> IAM			
	CASE A 180 Ringing ←	<b>←</b>	ACM			
	CASE B  183 Session Progress  180 Ringing		ACM CPG			

TP number	TP_104_009	Reference	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Bearer Capability received in a ACM/CPG				
Test Purpose	Ensure that on receipt of an A				
			pability IE contained in the ACM		
			y 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			
			ALERTING 180 Ringing is sent		
		nt contains the BearerCapabil			
ISUP Parameter values		ed party status = subscriber f	ree ATP contains a Bearer		
	Capabili				
		ed party status = no indication	n		
		pand info available			
CID Developed	CPG: ATP contains a Bearer	Capability IE			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding PSTN</pre></pre>	j= uti-8 ?>			
	BearerCapability				
	BCoctet3				
		CodingStandard>00<			
	InformationTransferCapability>ITC_value<				
	BCoctet4				
	TransferMode>00<				
	InformationTransfe	rRate>10000<			
	BCoctet5>				
	Layer1Identification	n>01<			
	UserInfoLayer1Pro	tocol>00011<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	CASE A				
	180 Ringing	← ←	- ACM		
	CASE C				
	100 00000000000000000000000000000000000	<b>←</b>	- ACM		
	180 Ringing	← ←	- CPG		
		Apply post test routine			

TP number	TP_104_010	Reference	7.2.3.1.4
			table 7a.0g
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indic in 180	ator into PSTN XML Progress	Indicator element value 1 sent
Toot Burnoso		M and the Dealsward call india	estar ICDN Lloor Dort indicator
Test Purpose	Ensure that on receipt of an AC		
	is set to ISDN User Part not us		
	ProgressIndicator element is pr		(Call is not end-to-end ISDN:
	"further progress information m	, ,	
ISUP Parameter values	ACM: BCI ISDN User Part ind	icator = ISDN User Part not us	ed all the way
SIP Parameter values	180 Ringing		
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>	
	PSTN		
	ProgressIndicator		
	 ProgressOctet4		
	ProgressDescription	>000001<	
Comments	1 Togredo Decemption	× 0000001 ×	
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	180 Ringing ←	<b>+</b>	ACM
	Apply post test routine		

P_104_011	Reference	7.2.3.1.4		
		table 7a.0g		
SIP-ISUP/Basic call/Sending_of_18x/				
PICS 6.2.1/5				
Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 2 sent in 180				
Ensure that on receipt of an 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				
ACM: BCI ISDN User Part indicator = ISDN User Part used all the way ISDN access indicator = Terminating access non-ISDN				
180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4				
Mg	MGCF	ISUP		
NVITE →	<b>→</b>	IAM		
100 Trying ←				
	<b>+</b>	ACM		
Apply post test routine				
	IP-ISUP/Basic call/Sending_of ICS 6.2.1/5 Iapping of Backward call indica 180 IRON ISON User Part used all con-ISDN, a 180 Ringing is sen alue is set to No 2 (Destination CM: BCI ISDN User Part ir ISDN access indications access indications of the ISDN User Part ir ISDN access indications of the ISDN ISON ISON Ringing ISON Ringing ISON ProgressIndicator ISON ProgressIndicator ISON ISON ISON ISON ISON ISON ISON ISON	IP-ISUP/Basic call/Sending_of_18x/ ICS 6.2.1/5 Iapping of Backward call indicator into PSTN XML Progress/180 Insure that on receipt of an ACM and the Backward call indicator into ISDN User Part used all the way and ISDN access in items on ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicatue is set to No 2 (Destination address is non-ISDN)  CM: BCI ISDN User Part indicator = ISDN User Part user ISDN access indicator = Terminating access not ISDN access indicator = Terminating access not ISDN ProgressIndicator ISDN ProgressIndicator ISDN ProgressOctet4 INTE INTE INTE INTE INTE INTE INTE INTE		

TP number	TP_104_012	Reference	7.2.3.1.4
			table 7a.0g
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indicin 180	cator into PSTN XML Progress	Indicator element value 7 sent
Test Purpose	Ensure that on receipt of an 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		indicator = ISDN User Part use licator = 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	Mg INVITE → 100 Trying ← 180 Ringing		ISUP IAM ACM

TP number	TP 104 013	Reference	7.2.3.1.4		
	11 _101_010	TKOIOI OI IOO	table 7a.0g		
TSS reference	SIP-ISUP/Basic call/Sending_o	nf 18x/	table 7 d.og		
Selection criteria	PICS 6.2.1/5	31_107			
Test Purpose name	Mapping of optional Backward value 8 sent in 180	call indicator into PSTN XML I	ProgressIndicator element		
Test Purpose	Ensure that on receipt of an ACM and the optional Backward call indicator In-band information indicator in-band information or an appropriate pattern is now available, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 8				
ISUP Parameter values	ACM: oBCI In-band information indicator in-band information or an appropriate pattern is now available				
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000<				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ←	<b>←</b>	ACM		
	Apply post test routine				

TP number	TP_104_014   Reference   7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	The SUT performs Fall back		
Test Purpose	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 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 body  PSTN  BearerCapability  BCoctet3		
	CodingStandard>00< InformationTransferCapability>00000< or InformationTransferCapability>10000<		
Comments	Fallback is performed in the SUT		
Message flows	Mg   MGCF   ISUP		
	180 Ringing ← ← ACM		
	Apply post test routine		

TP number	TP_104_015	Reference	7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Receipt of TMU speech, no BC	present in ATP			
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to speech in the				
	ACM, a 180 Ringing is sent and	d a PSTN XML BearerCapabili	ty element is present the		
	InformationTransferCapability i	s 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	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ←	<b>←</b>	ACM		
		Apply post test routine			

TP number	TP_104_016	Reference	7.2.3.1.4	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Receipt of TMU 3,1 kHz audio,	no BC present in ATP		
Test Purpose	Ensure that on receipt of a Tra	Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio in		
	the ACM, a 180 Ringing is sen	t and a PSTN XML BearerCa	pability element is present the	
	InformationTransferCapability i	s set to 3,1 kHz audio		
ISUP Parameter values	ACM: Transmission medium u	used = 3,1 kHz audio		
SIP Parameter values	180 Ringing	180 Ringing		
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability>10000<			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	100 Trying ←	ı		
	180 Ringing ←	<b>+</b>	ACM	
		Apply post test routine		

TP number	TP_104_017	Reference	7.2.3.1.4.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapab	ility sent in 180	
Test Purpose	Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer			
	Capability IE in the ACM, a 180	Ringing is sent and a PSTN X	ML BearerCapability element	
	is present the InformationTrans	ferCapability is set as indicate	d in table 6.1.1.4-1	
ISUP Parameter values	ACM: Transmission medium u	sed, ATP Bearer Capability IE		
SIP Parameter values	180 Ringing	180 Ringing		
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>		
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability>ITC_value<			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	100 Trying ←			
	180 Ringing ←	<b>←</b>	ACM	
		Apply post test routine		

TP number	TP_104_018	Reference	7.2.3.1.4.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Receipt of TMU, BC present in ATP PSTN XML BearerCapability sent in 183			
Test Purpose	Ensure that on receipt of a Tra	Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer		
	Capability IE in the ACM, a 18			
	BearerCapability element is pr	esent the InformationTransfer	Capability is set as indicated in	
	table 6.1.1.4-1			
ISUP Parameter values	ACM: Transmission medium u	used, ATP Bearer Capability II		
	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<			
	InformationTransfer	Capability>ITC_value<		
Comments				
Message flows	Mg MGCF ISUP			
	INVITE -	· -	IAM	
	100 Trying ←	•		
	183 Session Progress ←	· <b>←</b>	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	7.2.3.1.4A	
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	NOT PICS 6.2.1/5 AN	NOT PICS 6.2.1/5 AND NOT PICS 6.2.1/9		
Test Purpose name	ACM no indication re	ceived, no SIP response is s	ent	
Test Purpose		Ensure that on receipt of an early 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 indication		
SIP Parameter values		-		
Comments				
Message flows	Mg INVITE	MGCF → Apply post tes	ISUP  → IAM  ← ACM(no indication)  t routine	

TP number	TP_104_020	Reference	7.2.3.1.4A		
TSS reference	SIP-ISUP/Basic call/Send	ding_of_18x/	·		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	ACM received, P-Earl-Me	edia header present in	183		
Test Purpose		Ensure that on receipt of an early ACM 183 Session Progress is sent. In the 183 session Progress a P-Early-Media header is present indicating authorization of early media			
ISUP Parameter values	IAM: 3,1 kHz audio ACM: BCI Called party s	tatus indicator = no inc	lication		
SIP Parameter values	INVITE: P-Early-Media 183 Session Progress P-Early-Media: < auth	: supported norization of early medi	a>		
Comments					
Message flows	Mg INVITE 183 Session Progress	MGCF → ←	ISUP  → IAM  ← ACM(no indication)		
		Apply post te	st routine		

TP number	TP 104 021   Reference   7.2.3.1.4A			
Transo.	11 _104_021	rtoror on oc	table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Send	ling of 18v/	table 1.2.0.1.47t.1	
Selection criteria	PICS 6.2.1/9	1119_01_102/		
		dia haaadaa aa aa aa 40	0	
Test Purpose name	CPG received, P-Earl-Me			
Test Purpose			ator is set to 'In-band info or an	
			n Progress is sent. In the 183 session	
	Progress a P-Early-Media	n header is present indica	ating authorization of early media	
ISUP Parameter values	IAM: 3,1 kHz audio			
	CPG: Event indicator			
	In-band info or	an appropriate pattern is	s now available	
SIP Parameter values	INVITE: P-Early-Media:	supported		
	183 Session Progress	• •		
		orization of early media>	•	
Comments		•		
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	183 Session Progress	<b>←</b>	<b>←</b> CPG	
		Apply post test	routine	

TP number	TP_104_022	Reference	7.2.3.1.4A	
			table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	ACM Mapping of optional Backward call indicator into PSTN XML ProgressIndicator element value 8 sent in a 183			
Test Purpose	Ensure that on receipt of an <b>ACM</b> 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	BCi Called party stat	dicator = Terminating access IS us indicator = no indication tion indicator in-band information		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN     ProgressIndicator      ProgressOctet4     ProgressDescriptior</th <th></th> <th></th>			
Comments				
Message flows	Mg	MGCF	ISUP	
_	INVITE ->	· <b>→</b>	IAM	
	183 Session Progress ←	•	ACM	
	122 2000.0 109.000	Apply post test routine		

TP number	TP 104 023	Reference	7.2.3.1.4A	
	1		table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	ACM Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 1 sent in a 183			
Test Purpose	Ensure that on receipt of an <b>ACM</b> 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	ACM: BCI ISDN User Part indicator = ISDN User Part not used all the way			
loor rurameter values			sed all the way	
SIP Parameter values	BCi Called party status indicator = no indication  183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<			
Comments				
Message flows	Mg INVITE → 183 Session Progress ←	·	ISUP IAM ACM	

TP number	TP_104_024	Reference	7.2.3.1.4A	
			table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	ACM Mapping of Backward cal	I indicator into PSTN XML Pro	gressIndicator element value	
	2 sent in a 183			
Test Purpose	Ensure that on receipt of an AC			
	is set to ISDN User Part used a			
	non-ISDN, a 183 Session Prog			
	present the value is set to No 2			
ISUP Parameter values	ACM: BCI ISDN User Part indicator = ISDN User Part used all the way			
		tor = Terminating access non-	ISDN	
		indicator = no indication		
SIP Parameter values	183 Session Progress			
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>		
	PSTN			
	ProgressIndicator			
	<u></u>			
	ProgressOctet4			
	ProgressDescription	>0000010<		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	=	IAM	
	100 Trying ←			
	183 Session Progress	<b>←</b>	ACM	
		Apply post test routine		

TP number	TP_104_025	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.1
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/	•
Selection criteria	PICS 6.2.1/5		
Test Purpose name	ACM Mapping of Backward cal	I indicator into PSTN XML Pro	gressIndicator element value
	7 sent in a 183		
Test Purpose	Ensure that on receipt of an AC		
	is set to ISDN User Part used a		
	ISDN, a 183 Session Progress	is sent. A PSTN XML Progres	sIndicator element is present
	the value is set to No 7		
ISUP Parameter values	<b>ACM:</b> BCI ISDN User Part ind		
		tor = Terminating access ISDN	N
	BCi Called party status	indicator = no indication	
SIP Parameter values	183 Session Progress		
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription	>0000111<	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	183 Session Progress ←	<b>←</b>	ACM
	_	Apply post test routine	

TP number	TP_104_026	Reference	7.2.3.1.4A		
			table 7.2.3.1.4A.2		
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CPG Mapping of optional Back element value 8 sent in a 183	CPG Mapping of optional Backward call indicator into PSTN XML ProgressIndicator element value 8 sent in a 183			
Test Purpose	Ensure that on receipt of a <b>CP</b> information indicator in-band in Session Progress is sent. A PS set to No 8	nformation or an appropriate pa	attern is now available, a 183		
ISUP Parameter values	CPG: Event indicator = Programmer oBCI In-band information is now available	ess tion indicator in-band information	on or an appropriate pattern		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN     ProgressIndicator      ProgressOctet4     ProgressDescriptior</th <th></th> <th></th>				
Comments					
Message flows	Mg INVITE → 183 Session Progress ←	<b>←</b>	ISUP IAM ACM CPG		

TP number	TP_104_027	Reference	7.2.3.1.4A	
			table 7.2.3.1.4A.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	CPG Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 1 sent in a 183			
Test Purpose	Ensure that on receipt of a <b>CPG</b> 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 = Progr			
SIP Parameter values	183 Session Progress xml version="1.0" encoding: PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
Comments				
Message flows	Mg INVITE → 183 Session Progress ←	<b>+</b>	ISUP IAM ACM CPG	

TP number	TP_104_028	Reference	7.2.3.1.4A		
			table 7.2.3.1.4A.2		
TSS reference	SIP-ISUP/Basic call/Sending_	of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CPG Mapping of Backward ca 2 sent in a 183	CPG Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 2 sent in a 183			
Test Purpose	Ensure that on receipt of an <b>CPG (Progress)</b> 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		ess dicator = ISDN User Part used ator = Terminating access non-	,		
SIP Parameter values	183 Session Progress xml version="1.0" encoding: PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → 183 Session Progress ←	<b>←</b>	IAM ACM CPG		

TP number	TP_104_029	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	CPG Mapping of Backward cal 7 sent in a 183	I indicator into PSTN XML Pro	gressIndicator element value
Test Purpose	Ensure that on receipt of an CI Part indicator is set to ISDN Us	ser Part used all the way and IS 33 Session Progress is sent. A	
ISUP Parameter values		ess icator = ISDN User Part used a tor = Terminating access ISDN	
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg INVITE → 183 Session Progress ←	<del>`</del>	ISUP IAM ACM CPG

TP number	TP_104_030	Reference	7.2.3.1.4A		
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CPG Mapping of CPG Event information 'in-band info or appropriate pattern is now available' sent in a 183				
Test Purpose	Ensure that on receipt of a CPG and the Event information is set to "in-band information or an appropriate pattern is now available", a 183 Session Progress is sent. A P-Early-Media header is present indicating authorization of early media.				
ISUP Parameter values	CPG: Event indicator = in-bar	nd information or an appropriate	e pattern is now available		
SIP Parameter values	183 Session Progress P-Early-Media: < authorization of early media>				
Comments	-	•			
Message flows	Mg INVITE → 183 Session Progress ←	<b>←</b>	ISUP IAM ACM CPG		

TP_104_031  SIP-ISUP/Basic call/Sendir	ng of 18v/		table 7.2.3.1.4A.2
	og of 18v/		
DICC C 2 4/F	19_01_10%		
PICS 6.2.1/5	•		
Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 2 sent in a 183			
available) and the Backwa Part used all the way and I Session Progress is sent. A	rd call indicator ISDN Us SDN access indicator = 7 A PSTN XML ProgressInd	er Part ind erminatin	licator is set to ISDN User g access non-ISDN, a 183
BCI ISDN User Part	t indicator = ISDN User P	art used a	III the way
PSTN ProgressIndicator ProgressOctet4			
Mg	MGCF		ISUP
INVITE  183 Session Progress	→ ←	<b>←</b>	IAM ACM CPG
	in a 183  Ensure that on receipt of ar available) and the Backwa Part used all the way and I Session Progress is sent. A set to No 2 (Destination ad CPG: Event indicator = in-BCI ISDN User Part BCI ISDN access in 183 Session Progress xml version="1.0" encod PSTN  ProgressIndicator  ProgressOctet4  ProgressDescrip</th <th>Mapping of Backward call indicator into PSTN XML in a 183  Ensure that on receipt of an CPG (in-band informa available) and the Backward call indicator ISDN Us Part used all the way and ISDN access indicator = 1 Session Progress is sent. A PSTN XML ProgressInd set to No 2 (Destination address is non-ISDN)  CPG: Event indicator = in-band information or an a BCI ISDN User Part indicator = ISDN User PBCi ISDN access indicator = Terminating access and indicator = Terminating access (?xml version="1.0" encoding="utf-8"?&gt; PSTN ProgressIndicator ProgressOctet4 ProgressDescription&gt;0000010&lt;  Mg MGCF INVITE  →  183 Session Progress</th> <th>Mapping of Backward call indicator into PSTN XML Progressl in a 183  Ensure that on receipt of an CPG (in-band information or ar available) and the Backward call indicator ISDN User Part inc Part used all the way and ISDN access indicator = Terminatin Session Progress is sent. A PSTN XML ProgressIndicator ele set to No 2 (Destination address is non-ISDN)  CPG: Event indicator = in-band information or an appropriate BCI ISDN User Part indicator = ISDN User Part used a BCi ISDN access indicator = Terminating access non-I 183 Session Progress <?xml version="1.0" encoding="utf-8"?> PSTN ProgressOctet4 ProgressOctet4 ProgressDescription&gt;0000010&lt;  Mg  MGCF INVITE  Mg  MGCF</th>	Mapping of Backward call indicator into PSTN XML in a 183  Ensure that on receipt of an CPG (in-band informa available) and the Backward call indicator ISDN Us Part used all the way and ISDN access indicator = 1 Session Progress is sent. A PSTN XML ProgressInd set to No 2 (Destination address is non-ISDN)  CPG: Event indicator = in-band information or an a BCI ISDN User Part indicator = ISDN User PBCi ISDN access indicator = Terminating access and indicator = Terminating access (?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<  Mg MGCF INVITE  →  183 Session Progress	Mapping of Backward call indicator into PSTN XML Progressl in a 183  Ensure that on receipt of an CPG (in-band information or ar available) and the Backward call indicator ISDN User Part inc Part used all the way and ISDN access indicator = Terminatin Session Progress is sent. A PSTN XML ProgressIndicator ele set to No 2 (Destination address is non-ISDN)  CPG: Event indicator = in-band information or an appropriate BCI ISDN User Part indicator = ISDN User Part used a BCi ISDN access indicator = Terminating access non-I 183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressOctet4 ProgressOctet4 ProgressDescription>0000010<  Mg  MGCF INVITE  Mg  MGCF

TP number	TP_104_032	Reference	7.2.3.1.4A		
	11 _ 10 1_002	1101010100	table 7.2.3.1.4A.2		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5	<del>,</del>			
Test Purpose name	Mapping of Backward call in in a 183	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 7 sent in a 183			
Test Purpose	Ensure that on receipt of an CPG (in-band information or an appropriate pattern is now available) 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 PSTN XML ProgressIndicator element is present the value is set to No 7				
ISUP Parameter values	CPG: Event indicator = 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 ISDN				
SIP Parameter values	183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE  183 Session Progress	→ →  ←  Apply post test routine	17 (11)		

TP number	TP_104_033	Reference	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_c	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 an ACM called party status no indication or CPG, a 183 Session				
	Progress is sent. The Progress				
	mapped into the PSTN XML ele	ement in the 183 Session Prog	gress as indicated in		
	table 6.1.1.4-2.				
			is no indication, a 183 Session		
	Progress is sent in the PS Pl_value	TN XML element contains the	ProgressIndicator value		
	<ul> <li>Progress Indicator receive</li> </ul>	d in an CPG a 183 Session Pi	rogress is sent the PSTN XML		
		ressIndicator value PI_value	-		
ISUP Parameter values		d party status = no indication	ATP contains a Progress		
	Indicator				
		d party status = no indication			
		and info available			
CID Developed	CPG: ATP contains a Progres	s Indicator IE			
SIP Parameter values	183 Session Progress:				
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location>yyyy<				
	ProgressOctet4				
	ProgressDescription	>PI_value<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	CASE A				
	183 Session Progress	<b>←</b>	ACM		
	CASE B	_			
		<del>-</del>	ACM		
	183 Session Progress ←		CPG		
	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	'000010'
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_104_034	Reference	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_	of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of High layer compatibility received in a ACM/CPG into 183				
Test Purpose		CM called party status no indica			
	Progress is sent. The High lay	er compatibility IE contained in	the ACM ATP parameter is		
	mapped into the HighLayerCo	mpatibility PSTN XML element	in the 183 Session Progress		
	as indicated in table 6.1.1.4-3.				
	<ul> <li>High layer compatibility re</li> </ul>	ceived in an ACM called party:	status no indication, a 183		
	Session Progress is sent i	in the PSTN XML element cont	ains the		
	HighLayerCompatibility va	alue HLC_value			
	<ul> <li>High layer compatibility re</li> </ul>	ceived in an CPG a 183 Session	on Progress is sent the PSTN		
		HighLayerCompatibility value	HLC_value		
ISUP Parameter values		ed party status = no indication			
		ed party status = no indication			
		and info available'			
	CPG: ATP contains a High la	yer compatibility IE			
SIP Parameter values	183 Session Progress:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacte	ristics>HLC_value<			
Comments	8.6	MOOF	ICUID		
Message flows	Mg	MGCF	ISUP		
	INVITE -	→	IAM		
	0.405.4				
	CASE A	_			
	183 Session Progress ← ACM				
	0405 5				
	CASE B	_			
		<b>←</b>	ACM		
	183 Session Progress ←		CPG		
		Apply post test routine			

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	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Low layer compatibility received in a ACM/CPG into 183				
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, 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 the 183 Session Progress as indicated in table 6.1.1.4-4.				
		ceived in an ACM called party s	status no indication, a 183		
		n the PSTN XML element cont			
	LowLayerCompatibility va				
		ceived in an CPG a 183 Session			
		LowLayerCompatibility value	ITC_value		
ISUP Parameter values		ed party status = no indication			
		ed party status = no indication			
	oBCi 'inband info available'				
SIP Parameter values	CPG: ATP contains a Low lay 183 Session Progress:	er compatibility iE			
Sir rarameter values	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00				
	InformationTransferCapability>ITC_value<				
	LLOctet4> TransferMode>00<				
	InformationTransfer	Pate>10000>			
Comments	Information ransier	rate>10000<			
Message flows	Mg	MGCF	ISUP		
	INVITE -		IAM		
	CASE A				
	183 Session Progress ← ← ACM				
	CASE B				
		<b>←</b>	ACM		
	183 Session Progress ←		CPG		
		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	7.2.3.1.4		
T00 (		[	table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Bearer Capability received in a ACM/CPG into 183				
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183 Session Progress is sent. The Bearer Capability IE contained in the ACM ATP parameter is				
	mapped into the BearerCapab	ility PSTN XML element in the	183 Session Progress as		
	indicated in table 6.1.1.4-5.				
		d in an ACM called party status			
		STN XML element contains the	BearerCapability value		
	ITC_value				
		d in an CPG a 183 Session Pro			
		BearerCapability value ITC_v	alue		
ISUP Parameter values		ed party status = no indication			
		ed party status = no indication			
		and info available'			
	CPG: ATP contains a Bearer	Capability IE			
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<				
	BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
	BCoctet5>				
	Layer1Identification				
	UserInfoLayer1Prot	ocol>00011<			
Comments	1100				
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	CASE A				
	183 Session Progress ← ← ACM				
	CASE B				
		<b>←</b>	ACM		
	183 Session Progress ← ← CPG				
		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	7.2.3.1.4B	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria				
Test Purpose name	ACM containing CDIV informat	ion, a 181 is sent		
Test Purpose	Ensure that on receipt of an ACM containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted', a 181 Call Is Being Forwarded is sent			
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			
Comments	-			
Message flows	Mg INVITE 100 Trying 181 Call Is Being Forwarded	<b>←</b>	ISUP  → IAM  ← ACM	

TP number	TP_104_038	Reference	7.	2.3.1.4B	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9			
Test Purpose name	ACM containing CDIV information and oBCi inband inf available, a 181 is sent a P-Early-Media present				
Test Purpose	Ensure that on receipt of a 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	Mg MGCF ISUP				
	INVITE	<b>→</b>	<b>→</b>	IAM	
	100 Trying ←				
	181 Call Is Being Forwarded ← ← ACM				
	Apply post test routine				

TD	TD 404 040	D-f	I-	0.0.4.4D		
TP number	TP_104_040	Reference	[7.	2.3.1.4B		
TSS reference	SIP-ISUP/Basic call/	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria						
Test Purpose name	CPG containing CDI	CPG containing CDIV information, a 181 is sent				
Test Purpose	Ensure that on receip	ot of a CPG Event Indicat	tor set to Progress	containing a Redirection		
	number, Call diversion	on information and Gener	ric notification set to	o 'Call is diverted', a 181		
	Call Is Being Forward	ded is sent				
ISUP Parameter values	CPG: Event Indicate	or set to Progress				
	Redirection n	umber				
	Call diversion	information				
	Generic notific	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 For	rwarded				
Comments						
Message flows	Mg MGCF ISUP					
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180/183 ← ← ACM					
	181 Call Is Being Forwarded ← CPG					
	Apply post test routine					

TP number	TP_104_041	Reference	7.2.3.1.4B			
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/				
Selection criteria	PICS 6.2.1/9					
Test Purpose name	ACM containing CDIV information P-Early-Media present	tion and oBCi inband inf availal	ble, a 181 is sent a			
Test Purpose	Ensure that on receipt of a 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 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	CPG: Event Indicator set to P	rogress				
	Redirection number					
	Call diversion information					
	Generic notification = 'C	Call is diverted'				
SIP Parameter values	INVITE:					
	Supported: 100rel					
	P-Early-Media: < authoriza	tion of early media>				
	181 Call Is Being Forwarded					
	P-Early-Media: <indicat< th=""><th>ing authorization of early media</th><th>a&gt;</th></indicat<>	ing authorization of early media	a>			
Comments	·	-				
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	<b>→</b> IAM			
	180/183	<b>←</b>	<b>←</b> ACM			
	181 Call Is Being Forwarded	<b>←</b>	<b>←</b> CPG			
		Apply post test routine	-			

## 6.1.1.5 Sending of the 200 OK (INVITE)

TP number	TP_105_001	Reference	7.2.3.1.5
TSS reference	SIP-ISUP/Basic call/Send	ing_of_200_OK/	
Selection criteria			
Test Purpose name	An ANM is received a 200	OK is sent	
Test Purpose	Ensure that on receipt of a	an ANM the SUT sends a 200 O	K INVITE
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	<b>→</b> IAM
	100 Trying	<b>←</b>	
	180 Ringing	<b>←</b>	E ACM
	200 OK (INVITE)	<b>←</b>	E ANM
	ACK	<b>→</b>	
		Apply post test routine	

TP number	TP_105_002	Referen	ce	7.2.3.1.5	
TSS reference	SIP-ISUP/Basic call/Se	ending_of_200_O	</th <th></th> <th></th>		
Selection criteria					
Test Purpose name	A CON is received a 20	00 OK is sent			
Test Purpose	Ensure that on receipt	of a CON the SU	Γsends a 200 OK	INVITE	
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg		MGCF		ISUP
	INVITE	<b>→</b>	-	<b>→</b> IAM	
	100 Trying	<b>←</b>			
	200 OK (INVITE)	<b>←</b>	•	CON	
	ACK	<b>→</b>			
		Apply	post test routine	<b>!</b>	

TP number	TP_105_003	Reference		7.2.3.1.5	
				table 7.2.	3.1.5.1
TSS reference	SIP-ISUP/Basic call/Send	ding_of_200_OK/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Progress indicator receive	ed in ANM/CON is mapp	ed into PS7	ΓN XML Pro	ogressIndicator
Test Purpose	Ensure that on receipt of				
	to value PI_value a, 200	OK INVITE is sent. the P	STN XML I	ProgressInd	dicator value is set
	as indicated in table 6.1.1				
ISUP Parameter values	ANM/CON: ATP contain	ins a Progress Indicator I	E value PI_	_value	
SIP Parameter values	200 OK INVITE:				
	xml version="1.0" enco</th <th>oding="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	oding="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStanda				
	Location <yyyy< th=""><th>&gt;</th><th></th><th></th><th></th></yyyy<>	>			
	ProgressOctet4	to be a			
0	ProgressDesc	ription> <b>PI_value</b> <			
Comments	NA	MOOF			IOUD
Message flows	Mg	MGCF		1004	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM	
	0405.4				
	CASE A	_	_		
	180 Ringing	<b>←</b>	+	ACM	
	222 OK (INI) (ITE)	_	_		
	200 OK (INVITE)	<del>(</del>	+	ANM	
	ACK	<b>→</b>			
	CASE D				
	CASE B			0011	
	200 OK (INVITE)	<del>(</del>	+	CON	
	ACK	<b>&gt;</b>			
		Apply post test	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	'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_105_004	Reference	7.2.3.1.5			
			table 7.2.3.1.5.1			
TSS reference	SIP-ISUP/Basic call/Se	ending_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name		received in ANM/CON is r	mapped into PSTN XML			
	HighLayerCompatibility					
Test Purpose			TP containing a High layer compatibility II			
			the PSTN XML HighLayerCompatibility			
	value is set as indicate					
ISUP Parameter values		tains a High layer compatib	pility IE value <b>HLC_value</b>			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th>	ncoding="utf-8"?>				
	PSTN					
	HighLayerCompatib	oility				
	HLOctet3 CodingStandard>00< Interpretation>100<					
		nMethod>01<				
	HLOctet4					
	HighLayerC	haracteristics> <b>HLC_value</b> <	<			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	CASE A					
	180 Ringing	<b>←</b>	← ACM			
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM			
	ACK	<b>&gt;</b>	AINIVI			
	ACIC					
	CASE B					
	200 OK (INVITE)	<b>←</b>	← CON			
	ACK	<b>→</b>				
		Apply post test	routine			

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	Refer	ence		7.2.3.1.5	
					table 7.2.3.1.5.1	
TSS reference	SIP-ISUP/Basic call/Se	ending_of_200_	OK/		•	
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Low layer compatibility	received in AN	M/CON is map	ped into	PSTN XML	
_	LowLayerCompatibility	1	·	•		
Test Purpose	Ensure that on receipt	of an ANM/CO	N and an ATP	containir	ng a Low layer compatibility IE	
	set to value ITC_value	, a 200 OK INV	ITE is sent. the	PSTN >	XML LowLayerCompatibility	
	value is set as indicate	ed in table 6.1.1	.5-3			
ISUP Parameter values	ANM/CON: ATP cor	ntains a Low lay	er compatibility	/ IE value	e ITC_value	
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" e</th <th>ncoding="utf-8"</th> <th>?&gt;</th> <th></th> <th></th>	ncoding="utf-8"	?>			
	PSTN					
	LowLayerCompatit	oility>				
	LLOctet3>					
	CodingStan					
	Information	TransferCapabi	lity>ITC_value	<		
	LLOctet4>					
		TransferMode>00<				
	InformationTransferRate>10000<					
	LLOctet5>					
		tification>01 </th <th></th> <th></th> <th></th>				
		/er1Protocol> <b>IT</b>				
Comments		foLayer1Protoc	ol' element is a	absent, tl	he entire 'LLOctet5' element is	
	absent					
Message flows	Mg		MGCF		ISUP	
	INVITE	<b>→</b>		→	IAM	
	CASE A					
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
	200 OK (INVITE)	<b>←</b>		<b>←</b>	ANM	
	ACK	→				
	CASE B					
	200 OK (INVITE)	<b>←</b>		<b>←</b>	CON	
	ACK	<b>→</b>				
	-	aaA	ly post test ro	utine		
			, , , , , , , , , , , , , , , , , , , ,			

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

ITC_value	LLC Information transfer capability	XML LLC InformationTransferCapability	XML UserInfoLayer1Protocol
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	Refer	ence		7.2.3.1.5		
T00 (		li ( 000	0141		table 7.2	.3.1.5.1	
TSS reference	SIP-ISUP/Basic call/Se	ending_of_200	_OK/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Bearer Capability recei						
Test Purpose	Ensure that on receipt						
	to value ITC_value, a 2		is sent. the PS	STN XML	_ BearerCa	apability value is set	
	as indicated in table 6.						
ISUP Parameter values	ANM/CON: ATP con	tains a Bearer	Capability IE v	alue ITC	_value		
SIP Parameter values	200 OK INVITE:						
	xml version="1.0" en</th <th>ncoding="utf-8"</th> <th>'?&gt;</th> <th></th> <th></th> <th></th>	ncoding="utf-8"	'?>				
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStand		150				
	InformationTransferCapability>ITC_value<						
	BCoctet4						
		TransferMode>00<					
	InformationTransferRate>10000<						
	BCoctet5>						
	Layer1Identification>01< UserInfoLayer1Protocol> <b>ITC_value</b> <						
Comments	UserinioLay	er iProtocoi>i	C_value<				
	NA as		МООГ			ICUD	
Message flows	Mg		MGCF		1004	ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM		
	CASE A	_		_			
	180 Ringing	<del>-</del>		<b>←</b>	ACM		
		_		_			
	200 OK (INVITE)	<del>(</del>		<b>←</b>	ANM		
	ACK	<b>→</b>					
	CASE B						
	200 OK (INVITE)	<b>←</b>		<b>←</b>	CON		
	ACK	<b>→</b>		•	JOIN		
	AUN		oly post test ro	nutine			
		App	ny post test it	Juline			

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'

TSS reference SIP-ISUP/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 1  Test Purpose Ensure that on receipt of a ANM/CON and the backward call indicator is set to IS  Part not used all the way, a 200 OK INVITE is sent and the PSTN XML Progres	ssIndicator
Selection criteriaPICS 6.2.1/5Test Purpose nameBackward call indicator mapped into PSTN XML ProgressIndicator value 1Test PurposeEnsure that on receipt of a ANM/CON and the backward call indicator is set to IS	ssIndicator
Test Purpose name  Backward call indicator mapped into PSTN XML ProgressIndicator value 1  Test Purpose  Backward call indicator mapped into PSTN XML ProgressIndicator value 1  Ensure that on receipt of a ANM/CON and the backward call indicator is set to IS	ssIndicator
Test Purpose Ensure that on receipt of a ANM/CON and the backward call indicator is set to IS	ssIndicator
	ssIndicator
Part not used all the way, a 200 OK INVITE is sent and the PSTN XML Progres	
value is set to 1 (Call is not end-to-end ISDN: further progress information may b	e available
in-band)	
<b>ISUP Parameter values</b> ANM/CON: BCi ISDN User Part indicator = ISDN User Part not used all the wa	ay
SIP Parameter values 200 OK INVITE	
xml version="1.0" encoding="utf-8"?	
PSTN	
ProgressIndicator	
ProgressOctet4	
ProgressDescription>0000001<	
Comments	
Message flows Mg MGCF ISUP	
INVITE → IAM	
CASE A	
180 Ringing ← ← ACM	
200 OK (INVITE) ← ← ANM	
ACK ANN	
) AON	
CASE B	
200 OK (INVITE) ← ← CON	
ACK →	
Apply post test routine	

TP number	TP_105_008	Reference	7.2.3.1.5	
IF Hulliber	TP_105_006	Reference	table 7.2.3.1.5.2	
TCCf			table 7.2.3.1.5.2	
TSS reference	SIP-ISUP/Basic call/Sending_	DT_200_OK/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name		ed into PSTN XML ProgressInd		
Test Purpose		M/CON and the backward call		
	Part used all the way and Te			
	the PSTN XML ProgressIndica	ator value is set to 2 (Destination	on address is non-ISDN)	
ISUP Parameter values	ANM/CON: BCi ISDN User			
	ISDN access inc	dicator = Terminating access no	on-ISDN	
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>0000010</b> <		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	CASE A			
	180 Ringing ←	· <b>←</b>	ACM	
	200 OK (INVITE)	· ←	ANM	
	ACK +			
	, tort			
	CASE B			
	200 OK (INVITE)	· <b>←</b>	CON	
	ACK	=	0011	
	Apply post test routine			

TP number	TP_105_009	Reference	7.2.3.1.5			
			table 7.2.3.1.5.2			
TSS reference	SIP-ISUP/Basic call/S	Sending_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name			ML ProgressIndicator value 7			
Test Purpose		Ensure that on receipt of a ANM/CON and the backward call indicator is set to ISDN U				
			ess ISDN, a 200 OK INVITE is sent and the			
		ndicator value is set to 7				
ISUP Parameter values			ISDN User Part used all the way			
		ccess indicator = Termir	nating access ISDN			
SIP Parameter values	200 OK INVITE					
	xml version="1.0" e</th <th>encoding="utf-8"?&gt;</th> <th></th>	encoding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	<u></u>	_				
	ProgressOctet					
	ProgressDe	escription>0000111<				
Comments						
Message flows	Mg	MGC				
	INVITE	<b>→</b>	→ IAM			
	CASE A					
	180 Ringing	<b>←</b>	← ACM			
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM			
	ACK	<b>→</b>				
	CASE B					
	200 OK (INVITE)	<b>←</b>	← CON			
	ACK	<b>→</b>				
	Apply post test routine					

TP number	TP_105_010		Reference		7.2.3.1.5 table 7.2	
TSS reference	SID ISLID/Ba	sic call/Sending_o	f 200 OK/		lable 1.2	
Selection criteria	PICS 6.2.1/5	sic call/seriding_o	1_200_OK/			
Test Purpose name		award call indicate	r mannad into DC	TNI VMI Dro	aroooladi	notor value 0
<u> </u>		ward call indicato n receipt of a ANN				
Test Purpose	band inform	ation or an appro NXML ProgressInd	priate pattern is	now availa	<b>ible</b> , a 200	O OK INVITE is sent ation or appropriate
ISUP Parameter values	ANM/CON:	•	rd call indicator In-			
			on or an appropria	ate pattern is	now avai	ilable
SIP Parameter values	200 OK INVI					
		n="1.0" encoding=	"utf-8"?>			
	PSTN					
	ProgressIndicator					
		0				
	ProgressOctet4 ProgressDescription>0001000<					
Comments	FI	ogresspescription	>0001000<			
Message flows	N	la	MGCF			ISUP
Message nows	INVITE	→	WIGGI	<b>→</b>	IAM	1301
	CASE A					
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
	200 OK (INVI	TE) ←		<b>←</b>	ANM	
	ACK →					
	CASE B					
	200 OK (INVI			<b>←</b>	CON	
	ACK → Apply post test routine					

TP number	TP_105_011	Refe	rence		7.2.3.1.5	
	010 10110/0 : 11/0		2.01//		table 7.2	2.3.1.5.1
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Receipt of TMU speed	h in ANM/COI	N, no BC presen	it in ATP		
Test Purpose	Ensure that on receipt					
	ANM/CON, a 200 OK			ML Beare	erCapabili	ty element is present
ICUD Devementes values	the InformationTransfe	erCapability is	set to <b>Speecn</b>			
ISUP Parameter values	IAM:	ation Transfor(	`anahilitu			
	TMR = second Inform TMR prime = first Info					
	USI = first BearerCapa		er Capability			
	USI prime = second B		V			
	ANM/CON: Transm					
SIP Parameter values	INVITE: PSTN XML		uoca – opocon			
on randingtor variable	xml version="1.0" e</th <th></th> <th>5"?&gt;</th> <th></th> <th></th> <th></th>		5"?>			
	PSTN	g an c	•			
	BearerCapability					
	BCoctet3					
	CodingStar					
	Information	TransferCapal	oility> <b>00000</b> <			
	 PagrarCanability					
	BearerCapability					
	BCoctet3	ndard>00>				
		CodingStandard>00< InformationTransferCapability>10001<				
	IIIIOIIIIalioiTTalisielOapability>10001<					
	200 OK INVITE					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>00000<					
Comments						
Message flows	Mg		MGCF			ISUP
Wessage nows	INVITE	<b>→</b>	MIGGI	<b>→</b>	IAM	1001
	IIIVII L	-		•	IAIVI	
	CASE A					
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
	Too ranging	•		•	710111	
	200 OK (INVITE)	<b>←</b>		<b>←</b>	ANM	
	ACK	<b>→</b>			7	
		_				
	CASE B					
	200 OK (INVITE)	<b>←</b>		<b>←</b>	CON	
	ACK	<b>→</b>				
		Ap	ply post test ro	outine		
1	· · · · · · · · · · · · · · · · · · ·					

TP number	TP_105_012	Reference		7.2.3.1.5			
				table 7.2.3.1.5.1			
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name		Receipt of TMU 3,1 kHz audio in ANM/CON, no BC present in ATP					
Test Purpose		Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio in					
	the ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is						
	present the Information	FransferCapability is set	to 3,1 kHz au	ıdio			
ISUP Parameter values	IAM:						
	TMR = second Informat						
		nationTransferCapability					
	USI = first BearerCapab						
	USI prime = second Bea ANM/CON: Transmiss		kHz audia				
SIP Parameter values	INVITE: PSTN XML N		KHZ audio				
Sir raiailletei values	xml version="1.0" end</th <th></th> <th></th> <th></th>						
	PSTN	oding= dti-0 :>					
	BearerCapability						
	BCoctet3						
	CodingStand	ard>00<					
	InformationTr	ansferCapability>10000	<				
	BearerCapability						
	BCoctet3						
		CodingStandard>00<					
	InformationTransferCapability>10001<						
	••••						
	200 OK INVITE						
	xml version="1.0" encoding="utf-8"?						
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStandard>00<						
	InformationTransferCapability>10000<						
Comments	•••						
Message flows	Mg	MGCF		ISUP			
wessage nows	INVITE	₩GCF	<b>→</b>	IAM			
	INVITE	7	7	IAW			
	CASE A						
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	100 1	-	-	7.0			
	200 OK (INVITE)	<del>(</del>	<b>←</b>	ANM			
	ACK '	<b>→</b>					
	CASE B						
	200 OK (INVITE)	<b>←</b>	<b>←</b>	CON			
	ACK `	<b>→</b>					
	Apply post test routine						

TP number	TP_105_013	Refe	rence		7.2.3.1.5	
TSS reference	SIP-ISUP/Basic call/S	ending_of_200	0_OK/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Receipt of TMU, BC p					
Test Purpose	Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer Capability IE in the 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:					
	TMR = second Information TMR prime = first Info USI = first BearerCapa USI prime = second B ANM/CON: Transm	rmationTransfo ability earerCapabilit	erCapability y	irer Capa	ibility IE	
SIP Parameter values	200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN  BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>ITC_value<					
Comments						
Message flows	Mg INVITE CASE A	<b>→</b>	MGCF	<b>→</b>	IAM	ISUP
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
	200 OK (INVITE) ACK	<b>←</b> →		<b>←</b>	ANM	
	CASE B 200 OK (INVITE) ACK	<b>←</b> →		<b>←</b>	CON	
	Apply post test routine					

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	Referenc	е	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Ser	nding_of_REL/		•		
Selection criteria						
Test Purpose name	BYE received in confirm	ed dialogue no R	eason header inclu	ded, a REL is sent		
Test Purpose	-	e is sent. The cau	se indicator is set t	te and no Reason header is to No. 16 (normal clearing), the		
ISUP Parameter values		REL: Cause indicator Cause Value = 16 (normal clearing)  Location = network beyond interworking point				
SIP Parameter values						
Comments						
Message flows	Mg		MGCF	ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	100 Trying	<b>←</b>				
	180 Ringing	<b>←</b>	+	ACM		
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM		
	ACK →					
	BYE	<b>→</b>	<b>→</b>	REL		
	200 OK (BYE)	+	+	RLC		

TP number	TP_106_002	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending	_of_REL/	·			
Selection criteria						
Test Purpose name	BYE received in confirmed d	ialogue Reason header includ	led, a REL is sent			
Test Purpose		YE request in confirmed dialo	gue and a Reason header is to the Reason header cause			
		network beyond interworking p				
ISUP Parameter values	REL: Cause indicator Caus	e Value = Cause_value				
	Locatio	n = network beyond interwork	ing point			
SIP Parameter values	BYE: Reason: Q.850; cause	= Cause_value				
Comments	The <b>Cause_value</b> is a PIXIT	parameter				
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	IAM			
	100 Trying	<b>←</b>				
	180 Ringing	180 Ringing ← ← ACM				
	200 OK (INVITE)	<del>(</del>	- ANM			
	ACK →					
	BYE	<b>→</b>	REL			
	200 OK (BYE)	+	RLC			

TP number	TP_106_003	Reference	7.2.3.1.7					
TSS reference	SIP-ISUP/Basic call/Sendin	g_of_REL/						
Selection criteria								
Test Purpose name	BYE received in early dialog	gue no Reason header included	, a REL is sent					
Test Purpose	Ensure that on receipt of a BYE request in early dialogue and no Reason header is present, a 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	Mg	MGCF	ISUP					
	INVITE	<b>→</b>	IAM					
	18x	<b>+ +</b>	ACM					
	BYE → REL							
	200 OK (BYE)	200 OK (BYE) ← ← RLC						
	487 Request Terminated	<b>←</b>						
	ACK	<b>→</b>						

TP number	TP_106_004	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sending	_of_REL/	•				
Selection criteria							
Test Purpose name	BYE received in early dialog	ue Reason header included, a	a REL is sent				
Test Purpose	Ensure that on receipt of a B	YE request in early dialogue	and a Reason header is present,				
	a REL message is sent. The	cause indicator is set to the I	Reason header cause value, the				
	location is set to 'network be	yond interworking point'					
ISUP Parameter values	<b>REL:</b> Cause indicator Caus	e Value = Cause_value					
	Location	on = network beyond interwor	king point				
SIP Parameter values	BYE: Reason: Q.850; cause	= Cause_value					
Comments	The Cause_value is a PIXIT	parameter					
Message flows	Mg	MGCF	ISUP				
	INVITE	→ -	→ IAM				
	18x	←	← ACM				
	BYE → REL						
	200 OK (BYE)						
	487 Request Terminated	<b>←</b>					
	-	→					

TP number	TP_106_005	Reference		7.2.3.1.7	•	
TSS reference	SIP-ISUP/Basic call/Sendir	ng_of_REL/				
Selection criteria						
Test Purpose name	CANCEL received in early	dialogue no Reason hea	der inclu	ded, a REL	is sent	
Test Purpose	Ensure that on receipt of a	CANCEL request in early	y dialogu	e and no R	Reason header is	
_	present, a REL message is	sent. The cause indicate	or is set t	o No. 16 (n	normal clearing), the	
	location is set to 'network b	eyond interworking point		•		
ISUP Parameter values	REL: Cause indicator Car	use Value = 31 (normal u	nspecifie	ed)		
	Loca	tion = network beyond in	terworkir	ng point		
SIP Parameter values						
Comments						
Message flows	Mg	MGCF			ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM		
	18x	<b>←</b>	<b>←</b>	ACM		
	CANCEL → REL					
	200 OK (CANCEL)					
	487 Request Terminated	<b>←</b>				
	ACK	<b>→</b>				

TP number	TP_106_006	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sending	g_of_REL/					
Selection criteria							
Test Purpose name	CANCEL received in early d	ialogue Reason header include	d, a REL is sent				
Test Purpose	Ensure that on receipt of a CANCEL request in early dialogue and a Reason header is present, a 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 Caus	se Value = Cause_value					
	Location	on = network beyond interworkir	ng point				
SIP Parameter values	CANCEL: Reason: Q.850 ca	ause = Cause_value					
Comments	The Cause_value is a PIXI	Γ parameter					
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b> →	IAM				
	18x	<b>+ +</b>	ACM				
	CANCEL → REL						
	200 OK (CANCEL)	00 OK (CANCEL)					
	487 Request Terminated	<b>←</b>					
	ACK	<b>→</b>					

TP number	TP 106 007	Reference		7.2.3.1.7			
TSS reference	: : _ : :			1.2.3.1.1			
	SIP-ISUP/Basic call/Sen	iding_oi_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name			ighLayerCo	ompatibility present, a REL is			
	sent containing a High la						
Test Purpose		f a BYE request in confirm					
				is present containing a High			
		ne value is mapped as indi					
ISUP Parameter values	REL: ATP High layer of	ompatibility High Layer Ch	aracteristic	c = HLC_value			
SIP Parameter values	BYE:						
	xml version="1.0" end</th <th>oding="utf-8"?&gt;</th> <th></th> <th></th>	oding="utf-8"?>					
	PSTN	_					
	HighLayerCompatibil	lity					
	HLOctet3	•					
	CodingStanda	ard>00<					
	Interpretation:						
	PresentationMethod>01<						
	HLOctet4						
	HighLayerCharacteristics> <b>HLC_value</b> <						
Comments	<b>3</b>						
Message flows	Mg	MGCF		ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying						
	180 Ringing ← ← ACM						
	Too ranging Too ranging						
	200 OK (INVITE) ← ANM						
	ACK	<b>→</b>	•	ANIVI			
	ACK						
	BYE	<b>→</b>	_	REL			
	= · =		7				
	200 OK (BYE)	<b>←</b>		RLC			

TP number	TP_106_008	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending_	of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in early dialogue	PSTN XML HighLayerCon	npatibility present, a REL is sent			
	containing a High layer compa	tibility IE				
Test Purpose	Ensure that on receipt of a BY					
			TP is present containing a High			
	layer compatibility IE. The value					
ISUP Parameter values	<b>REL:</b> ATP High layer compa	tibility High Layer Character	istic = HLC_value			
SIP Parameter values	BYE:					
	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					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	-	<b>→</b> IAM			
	BYE -	-	<b>→</b> REL			
	200 OK (BYE)	-	<b>←</b> RLC			
	487 Request Terminated •	-				
	ACK -	•				

TP number	TP_106_009	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sending_of_REL/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	CANCEL received in early dial	ogue PSTN XML HighLayer	Compatibility present, a REL is				
	sent containing a High layer co	mpatibility IE					
Test Purpose	Ensure that on receipt of a CA						
	HighLayerCompatibility is pres	ent, a REL is sent and an A	TP is present containing a High				
	layer compatibility IE. The value						
ISUP Parameter values	<b>REL:</b> ATP High layer compat	ibility High Layer Characteris	stic = HLC_value				
SIP Parameter values	CANCEL	·	·				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>					
	PSTN						
	HighLayerCompatibility						
	HLOctet3	HLOctet3					
	CodingStandard>00<						
	Interpretation>100<						
	PresentationMethod>01<						
	HLOctet4						
_	HighLayerCharacteristics> <b>HLC_value</b> <						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE ->	· -	► IAM				
	CANCEL -	· <del>- 1</del>	▶ REL				
	200 OK (CANCEL) ←	•	RLC				
	487 Request Terminated ←	•					
	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'
	International Videotex interworking via gateways or interworking units	'0110011'
	Telex service	'0110101'
HLC_VA_7		
HLC_VA_8	FTAM application	'1000010'
HLC_VA_9	Videotelephony	'1100000'

TP number	TP_106_010	Reference		7.2.3.1.7			
TSS reference		SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5	Chairig_OI_INEL/					
Test Purpose name		med dialogue PSTN XML L	owl overCon	anatibility propert	o DEL io		
rest Furpose name			owLayerCon	ipatibility present,	a REL 15		
Took Durmood	sent containing a Low		and dialogue	and a DCTN VMI			
Test Purpose		of a BYE request in confirm			~ ~   ~ ~ ~		
		y is present, a REL is sent a			g a Low		
ICUD Devementes values		The value is mapped as inc					
ISUP Parameter values		compatibility Information To	ransier Capa	bility = IIC_value			
SIP Parameter values	CANCEL	1: " (( 0))0					
	xml version="1.0" e</th <th>ncoding="utt-8"?&gt;</th> <th></th> <th></th> <th></th>	ncoding="utt-8"?>					
	PSTN	1.124					
	LowLayerCompatil	bility>					
	LLOctet3>						
		CodingStandard>00<					
	Information	InformationTransferCapability>ITC_value<					
	•••						
Comments							
Message flows	Mg	MGCF		ISUP			
	INVITE	<b>→</b>	→	IAM			
	, ,	100 Trying ←					
	180 Ringing ← ← ACM						
	200 OK (INVITE) ← ANM						
	ACK →						
	BYE	<b>→</b>	<b>→</b>	REL			
	200 OK (BYE)	<b>←</b>	<b>←</b>	RLC			

TP number	TP_106_011	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	BYE received in early dialogue containing a Low layer compat		tibility present, a REL is sent				
Test Purpose	Ensure that on receipt of a BYI LowLayerCompatibility is prese layer compatibility IE. The value	ent, a REL is sent and an ATP	is present containing a Low				
ISUP Parameter values	<b>REL:</b> ATP Low layer compati	bility Information Transfer Cap	ability = ITC_value				
SIP Parameter values	CANCEL  PSTN  LowLayerCompatibility>  LLOctet3>  CodingStandard>00< InformationTransferCapability>ITC_value<						
Comments							
Message flows	Mg INVITE →	MGCF →	ISUP IAM				
	BYE 200 OK (BYE) 487 Request Terminated ACK	<b>+</b>	REL RLC				

TP number	TP_106_012	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sendir	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	CANCEL received in early	dialogue PSTN XML LowL	ayerCompatibility present, a REL is			
	sent containing a Low layer	r compatibility IE				
Test Purpose	Ensure that on receipt of a	CANCEL request in early	dialogue and a PSTN XML			
	LowLayerCompatibility is p	resent, a REL is sent and	an ATP is present containing a Low			
	layer compatibility IE. The	value is mapped as indicat	ed in table 6.1.1.6-2			
ISUP Parameter values	<b>REL:</b> ATP Low layer com	patibility Information Trans	fer Capability = ITC_value			
SIP Parameter values	CANCEL					
	xml version="1.0" encod</th <th>ing="utf-8"?&gt;</th> <th></th>	ing="utf-8"?>				
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard	l>00<				
	InformationTrans	sferCapability> <b>ITC_value</b> <	:			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	CANCEL	<b>→</b>	→ REL			
	200 OK (CANCEL)	<b>←</b>	← RLC			
	487 Request Terminated	<b>←</b>				
	ACK	<b>→</b>				

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	7.2.3.1.8
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_REL/	
Selection criteria			
Test Purpose name	A REL is received, a BYE requ	est is sent	
Test Purpose	Ensure that on receipt of a RE	L message in the confirmed d	ialogue, a BYE is sent. The
	Reason header is present and	the cause value is set to the	received cause value in the
	REL Cause indicator		
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value	
SIP Parameter values	BYE: Reason: Q.850; cause :	= Cause_value	
Comments	Cause_value is a PIXIT param	eter	
Message flows	Mg	MGCF	ISUP
	INVITE -	→	IAM
	100 Trying ←	•	
	180 Ringing ←	· <b>←</b>	ACM
	200 OK (INVITE) ←	· <b>←</b>	ANM
	ACK →		
	BYE ←	· •	REL
	200 OK (BYE) →	<b>→</b>	RLC

TP number	TP_107_002	Reference	7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/Receipt_of	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria						
Test Purpose name	A REL is received before an ea	rly dialogue is established, a	final response is sent			
Test Purpose	Ensure that on receipt of a 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	<b>REL:</b> Cause indicator Cause '	/alue = <b>Cause_value</b>				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; cause = Cause_value					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	100 Trying ←					
	SIP_final_Response	<b>+</b>	REL			
	ACK →	<b>→</b>	RLC			

TP number	TP_107_003	Reference		7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/Rec	SIP-ISUP/Basic call/Receipt_of_REL/					
Selection criteria		•					
Test Purpose name	A REL is received after a	n early dialogue is establ	ished (180	), a final respor	nse is sent		
Test Purpose	Ringing is established a Cause value received in	Ensure that on receipt of a 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; cause = Cause_valu	ıe				
Comments							
Message flows	Mg	MGCF		IS	SUP		
	INVITE	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	+	ACM			
	SIP_final_Response	<del>(</del>	<b>←</b>	REL			
	ACK	<b>→</b>	<b>→</b>	RLC			

TP number	TP_107_004	Reference	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria					
Test Purpose name	A REL is received after an earl	y dialogue is established (181)	, a final response is sent		
Test Purpose	Ensure that on receipt of a 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	ACM: BCi Called party status = no indication Redirection number Call diversion information Generic notification = 'Call is diverted' REL: Cause indicator Cause Value = Cause value				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; c	ause = Cause_value			
Comments					
Message flows	Mg INVITE 181 Call Is Being Forwarded SIP_final_Response ACK	=	ISUP  → IAM  ← ACM  ← REL → RLC		

TP number	TP_107_005	Reference	7.	2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_or	SIP-ISUP/Basic call/Receipt of REL/				
Selection criteria						
Test Purpose name	A REL is received after an early	y dialogue is established (181	I), a	final response is sent		
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to sending a 183 Session Progress 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 = no indication oBCi in-band info available REL: Cause indicator Cause Value = Cause value					
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; cause = <b>Cause_value</b>					
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	183 Session Progress	<b>←</b>	<b>←</b>	ACM		
	SIP_final_Response	<b>←</b> →	<del>-</del>	REL RLC		
	ACK	7	7	NLC		

TP number	TP_107_006	Reference	7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	An ATP Progress indicator IE		ed into the PSTN XML			
	ProgressIndicator in the sent					
Test Purpose			Indicator IE is present in an ATP, a			
			, a PSTN XML ProgressIndicator is			
	contained and the Progress I		the received REL Progress			
	indicator as indicated in table					
ISUP Parameter values	REL: ATP Progress Indicate	or = Pl_value				
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	Location <yyyy></yyyy>					
	ProgressOctet4					
	ProgressDescription	on>PI_value<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	180 Ringing	<b>-</b>	← ACM			
	SIP_final_Response	<b>+</b>	<b>←</b> REL			
	•	<b>&gt;</b>	→ RLC			

TP number	TP_107_007	Reference	7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/F	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5	-				
Test Purpose name		compatibility IE present in a ity in the sent final response	REL is mapped into the PSTN	XML		
Test Purpose	ATP, a SIP final responsibility	Ensure that on receipt of a REL message and High Layer Compatibility IE is present in an ATP, a SIP final response as indicated in table 6.1.1.7-1 is sent, a PSTN XML HighLayerCompatibility is contained and the HighLayerCharacteristics is derived from the received REL High Layer Compatibility as indicated in table 6.1.1.7-3				
ISUP Parameter values	REL: ATP High Laye	er Compatibility = HLC_valu	e			
SIP Parameter values	Interpretati Presentatio HLOctet4	tibility ndard>00<	<			
Comments						
Message flows	Mg INVITE 180 Ringing SIP_final_Response ACK	MGCF	ISUP  → IAM ← ACM  ← REL → RLC			

TP number	TP_107_008	Reference	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Low Layer Compatibili	ty IE present in a REL is ma	pped into the PSTN XML		
	LowLayerCompatibility in the se				
Test Purpose	Ensure that on receipt of a REI				
	ATP, a SIP final response as in				
			nsferCapability is derived from		
	the received REL Low Layer C	ompatibility as indicated in ta	able 6.1.1.7-4		
ISUP Parameter values	<b>REL:</b> ATP Low Layer Compat	ibility = ITC_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00	<			
	InformationTransfer	Capability> <b>ITC_value</b> <			
	LLOctet4>				
	TransferMode>00<				
	InformationTransferI	Rate>10000<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	-	IAM		
	180 Ringing ←	•	ACM		
	SIP_final_Response ←	•	REL		
	ACK →	7	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)

SIP_final_Resp	oonse ←SIP Message	← REL
	Status code	Cause parameter
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	Cause value No 42 (Switching equipment congestion)
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)
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 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)

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
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) (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

Pl_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 Receipt of RSC, GRS or CGB (H/W oriented)

TP number	TP_108_001	Reference	7.2.3.1.9 2)				
TSS reference	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/						
Selection criteria							
Test Purpose name	RSC received before an early	dialogue was established					
Test Purpose	Ensure that the SUT does not send any SIP message if a <b>RSC</b> is received and no early dialogue is established. A 480 Temporarily Unavailable is sent or an automatic repeat attempt is performed.						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	IAM				
	100 Trying CASE A	<b>←</b>					
	480 Temporarily Unavailable	<b>+ +</b>	RSC				
	ACK	<b>→</b>	RLC				
	CASE B	•	IAM				

TP number	TP_108_002	Reference	7.2.3.1.9 2)		
TSS reference	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria					
Test Purpose name	GRS received before an early dialog	gue was established			
Test Purpose	Ensure that the SUT does not send	any SIP message if a GRS is i	received and no early		
	dialogue is established. A 480 Temp	porarily Unavailable for each tra	ansaction is sent.		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE (1)	<b>→</b>	IAM		
	100 Trying	<b>←</b>			
	INVITE (2)	<b>→</b> →	IAM		
	100 Trying	<b>←</b>			
	4xx,5xx,6xx (1)	<b>+ +</b>	GRS		
	ACK →				
	4xx,5xx,6xx (2)	<del>-</del>			
	ACK	<b>→</b>	GRA		

TP number	TP_108_003	Reference	7.2.3.1.9 2)			
TSS reference	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/					
Selection criteria		_ <del>_</del>				
Test Purpose name	CGB received before an early	dialogue was established				
Test Purpose		Ensure that the SUT does not send any SIP message if a <b>CGB hardware oriented</b> is received and no early dialogue is established. A 480 Temporarily Unavailable for each				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE (1)	<b>→</b> -	<b>→</b> IAM			
	100 Trying	<b>←</b>				
	INVITE (2)	<b>→</b> -	<b>→</b> IAM			
	100 Trying	<b>←</b>				
	4xx,5xx,6xx (1)	<b>←</b>	<b>←</b> GGB			
	ACK	, , , , , , ,				
	4xx,5xx,6xx (2)	<b>←</b>				
	ACK	<b>→</b>	→ GGBA			

TP number	TP_108_004	Reference		7.2.3.1.9	2)
TSS reference	SIP-ISUP/Basic call/Receipt_c	f_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	RSC received after an early di	alogue was established			
Test Purpose	Ensure that the SUT is able to send a 480 Temporarily Unavailable if a <b>RSC</b> is received and an early dialogue is established				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF			ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM	
	180 Ringing	<b>←</b>	<b>←</b>	ACM	
	480 Temporarily Unavailable	<b>←</b>	<b>←</b>	RSC	
	ACK	<b>→</b>	<b>→</b>	RLC	

TP number	TP 108 005	Reference		7.2.3.1.9 2)			
TSS reference	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/						
Selection criteria	On 1001 /Basic call/Teccipt_or	GIT FIGURE CATIFICE CHIEF COLOR COLOR					
	CDC received often on control	la sura vuos astabliabad					
Test Purpose name	GRS received after an early dia	U					
Test Purpose		Ensure that the SUT is able to send a 480 Temporarily Unavailable for any dialogue					
	affected in the range, if a GRS i	is received and an early	dialo	gue is established			
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF		ISUP			
_	INVITE (1)	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	· · · · · · · · · · · · · · · · · · ·	_	_	7.0			
	INVITE (2)	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<del>-</del>	<del>-</del>	ACM			
	100 Kinging	•	•	ACIVI			
	480 Tomporarily Unavailable (1	) <b>←</b>	_	GRS			
		1 1 7					
	ACK	ACK → GRA					
	480 Temporarily Unavailable (2	480 Temporarily Unavailable (2) ←					
	ACK	, <b>→</b>					
	ACK	7					

TP number	TP_108_006	Reference	7.2.3.1.9 2)		
TSS reference	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria	·				
Test Purpose name	CGB received after an early dia	alogue was established			
Test Purpose	Ensure that the SUT is able to send a 480 Temporarily Unavailable for any dialogue affected in the range, if a <b>CGB hardware oriented</b> is received and an early dialogue is established				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE (1)	<b>→</b> →	IAM		
	180 Ringing	<b>+ +</b>	ACM		
	INVITE (2)	<b>→ →</b>	IAM		
	180 Ringing	<b>+ +</b>	ACM		
	480 Temporarily Unavailable (1	·)	GGB		
	ACK → → GGBA				
	480 Temporarily Unavailable (2	2) ←			
	ACK	<b>→</b>			

TP number	TP 108 007	Reference		7.2.3.1.9 1)			
	1. =						
TSS reference	SIP-ISUP/Basic call/Red	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/					
Selection criteria							
Test Purpose name	RSC received after a co	nfirmed dialogue wa	as established				
Test Purpose	Ensure that the SUT is a	able to send a BYE	request if a RSC	is received an	d a confirmed		
	dialogue is established						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg		MGCF		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM			
	ACK	<b>→</b>					
	BYE	<b>←</b>	<b>←</b>	RSC			
	200 OK BYE	<b>→</b>	<b>→</b>	RLC			

TP number	TP_108_008				
TSS reference	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria					
Test Purpose name	GRS received after a confirmed	d dialogue was established			
Test Purpose	Ensure that the SUT is able to a <b>GRS</b> is received and a confirm		dialogue affected in the range, if		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE (1)	<b>→</b> →	IAM		
	180 Ringing	<b>+ +</b>	ACM		
	200 OK INVITE	<b>+ +</b>	ANM		
	ACK	<b>→</b>			
	INVITE (2)	<b>→</b> →	IAM		
	180 Ringing	<del>+</del> +	ACM		
	200 OK INVITE	+ +	ANM		
	ACK →				
	BYE (1)	<b>+ +</b>	GRS		
	200 OK BYE	<b>→</b> →	GRA		
	BYE (2)	<b>←</b>			
	200 OK BYE	<b>→</b>			

TP number	TP_108_009	Refer	ence		7.2.3.1.9	1)	
TSS reference	SIP-ISUP/Basic call/Re	eceipt_of_RSC	-GRS-CGB/				
Selection criteria							
Test Purpose name	CGB received after a	confirmed dialo	gue was establis	shed			
Test Purpose	Ensure that the SUT is	able to send a	BYE request fo	r any d	ialogue affe	ected in the ra	nge, if
-	a CGB hardware orie						•
ISUP Parameter values					<u> </u>		
SIP Parameter values							
Comments							
Message flows	Mg		MGCF			ISUP	
	INVITE (1)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing	<del>(</del>		<b>←</b>	ACM		
	200 OK INVITE	<b>←</b>		<b>←</b>	ANM		
	ACK	<b>→</b>					
	INVITE (2)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing	<b>←</b>		<b>←</b>	ACM		
	200 OK INVITE	<b>←</b>		<b>←</b>	ANM		
	ACK	<b>→</b>					
	BYE (1)	<b>←</b>		<b>←</b>	GGB		
	200 ÔK BYE	<b>→</b>		<b>→</b>	GGBA		
	BYE (2)	<b>←</b>					
	200 OK BYE	<b>→</b>					

### 6.1.1.9 Receipt of REFER

TP number	TP 109 001	Reference	7.2.3.1.9a
TSS reference	SIP-ISUP/Basic call/Receipt_o	REFER/	
Selection criteria			
Test Purpose name	REFER received in the confirm	ed dialogue	
Test Purpose	Ensure that on receipt of a REI	ER request in the confirmed	d dialogue, a 403 Forbidden
	response to this REFER reque	st is sent	_
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b> →	• IAM
	100 Trying	←	
	180 Ringing	+ +	- ACM
	200 OK (INVITE)	<b>+ +</b>	- ANM
	ACK	<b>→</b>	
	REFER	<b>→</b>	
	403 Forbidden	<b>←</b>	
		Apply post test routine	

TP number	TP_109_002	Reference		7.2.3.1.9	Эа
TSS reference	SIP-ISUP/Basic call/Re	ceipt_of_REFER/			
Selection criteria		•			
Test Purpose name	REFER received in the	early dialogue			
Test Purpose	Ensure that on receipt or response to this REFER		ne early dialo	gue, a 403	Forbidden
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MG	CF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM	
	100 Trying	<b>←</b>			
	180 Ringing	<b>←</b>	+	ACM	
	REFER	<b>→</b>			
	403 Forbidden	<b>←</b>			
	Apply post test routine				

#### 6.1.1.10 Autonomous Release at I-MGCF

TP number	TP_110_001	Reference	7.2.3.1.10	
TSS reference	SIP-ISUP/Basic call/Autonomous_Release/			
Selection criteria	NOT PICS 6.2.3/1 AND NOT	PICS 6.2.3/2		
Test Purpose name	Determination that insufficier	nt digits received		
Test Purpose			UT determines that insufficient digits	
	received, the SUT sends a 4	84 Address Incomplete fir	nal response	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>		
	100 Trying	<b>←</b>		
	484 Address Incomplete	<b>←</b>		
	ACK	<b>→</b>		

TP number	TP_110_002	Reference	7.2.3.1.10
TSS reference	SIP-ISUP/Basic call/Autonomo	ous_Release/	
Selection criteria			
Test Purpose name	Connection request is not rout	able	
Test Purpose		IVITE request and the SUT is u 180 Temporarily Unavailable fin	
ISUP Parameter values			
SIP Parameter values			
Comments	Prepare the SUT that a call is	not routeable e.g. no circuit ava	ailable
Message flows	Mg	MGCF	ISUP
		Apply pre test routine	
	INVITE	<b>→</b>	
	100 Trying	<b>←</b>	
	480 Temporarily Unavailable	<b>←</b>	
	ACK	<b>→</b>	

TP number	TP_110_003	Reference		7.2.3.1.10		
TSS reference	SIP-ISUP/Basic call/Autonom	SIP-ISUP/Basic call/Autonomous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUP/	BICC compatibility procedu	re			
Test Purpose	Ensure that on receipt of an u					
	parameter compatibility is set	to 'Release call', a REL is s	sent	the cause value is set to #99		
	or #110 and in addition a 500	Server Internal Error is ser	nt, the	e Reason header cause value		
	is set to the same value as se	nt in the REL				
ISUP Parameter values	CPG: unknown parameter, p	arameter compatibility = rel	lease	e call		
	<b>REL:</b> cause value = 99 or 11	0				
SIP Parameter values	500 Server Internal Error: Rea	ason: cause=99 or 110				
Comments						
Message flows	Mg	MGCF		ISUP		
		Apply pre test routine	е			
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180 Ringing	180 Ringing ← ← ACM				
			←	CPG		
	500 Server Internal Error	<b>←</b>	<b>→</b>	REL		
	ACK	<b>→</b>	<b>←</b>	RLC		

TP number	TP 110 004	Reference		7.2.3.1.10		
TSS reference		SIP-ISUP/Basic call/Autonomous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUF	/BICC compatibility pro	ocedure			
Test Purpose	is set to 'Release call', a RE	Ensure that on receipt of an unknown ISUP/BICC message and the message compatibility is set to 'Release call', a REL is sent the cause value is set to #97 and in addition a 500 Server Internal Error is sent, the Reason header cause value is set to the same value as				
ISUP Parameter values	Unknown message: messag REL: cause value = 97	Unknown message: message compatibility = release call  REL: cause value = 97				
SIP Parameter values	500 Server Internal Error: Re	eason: cause=97				
Comments						
Message flows	Mg	MGCF		ISUP		
		Apply pre test re	outine			
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180 Ringing	<b>←</b>	<b>←</b>	ACM		
		_	<b>←</b>	<any message="" unknown=""></any>		
	500 Server Internal Error	<b>←</b>	<b>→</b>	REL		
	ACK	<b>→</b>	<u> </u>	RLC		

TP number	TP_110_005	Reference	7.2.3.1.10			
TSS reference	SIP-ISUP/Basic call/Autonomous_Release/					
Selection criteria						
Test Purpose name	Call release due to T7 expiry					
Test Purpose	Ensure that on T7 expiry, the call is released. A REL is sent. In addition a 484 Address Incomplete is sent and the cause value of the Reason header is equal to the Cause indicator value in the sent REL					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	T7 ovninu	IAM			
	484 Address Incomplete ACK	T7 expiry  ← →	REL RLC			

TP number	TP_110_006	Reference		7.2.3.1.10			
TSS reference	SIP-ISUP/Basic call/Autonomo	SIP-ISUP/Basic call/Autonomous_Release/					
Selection criteria							
Test Purpose name	Call release due to T9 expiry						
Test Purpose	indicator value is set to #19. In	Ensure that on expiry of the timer T9 the call is released. A REL is sent and the Cause indicator value is set to #19. In addition a 480 Temporarily Unavailable is sent and the cause value of the Reason header is set to #19					
ISUP Parameter values	REL: cause value = 19						
SIP Parameter values	480 Temporarily Unavailable:	Reason: cause=19					
Comments							
Message flows	Mg	MGCF		ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
		T9 expiry					
	480 Temporarily Unavailable	<b>←</b>	<b>→</b>	REL			
	ACK	<b>→</b>	<b>←</b>	RLC			

# 6.1.2 Outgoing Call Interworking from ISUP to SIP at O-MGCF

# 6.1.2.1 Sending of INVITE

TP number	TP_201_001	Reference	7.2.3.2.1	
TSS reference	ISUP-SIP/Basic call/	Sending_of_INVITE/		
Selection criteria				
Test Purpose name	IAM received, a INVI	ITE is sent		
Test Purpose	Ensure that on receip	pt of an IAM message, an INV	ITE request is sent	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			<ul><li>100 Trying</li></ul>	
	Apply post test routine			

TP number	TP_201_002	Reference	7.2.3.2.1.1		
TSS reference	ISUP-SIP/Basic call/Sending_o	ISUP-SIP/Basic call/Sending of INVITE/			
Selection criteria	PICS 6.2.1/4				
Test Purpose name	IAM received and COT reques	ted or performed, the INVITE i	s deferred until COT is		
	received				
Test Purpose	Ensure that on receipt of an IA	M and the continuity check inc	licator is set to:		
	<ul> <li>'continuity check required</li> </ul>	on this circuit'			
	<ul> <li>'continuity check performe</li> </ul>	ed on previous circuit'			
	the sending of the initial INVIT	E request is deferred until the	COT message is received and		
	the Continuity indicator is set to	the Continuity indicator is set to 'continuity check successful'			
ISUP Parameter values	IAM: Nature of connection in	dicator= continuity check requi	ired on this circuit or continuity		
	check performed on pre	evious circuit			
	COT: Continuity indicator=continuity check successful				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →				
	COT →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_201_003		Reference	7.2.3.	2.1.2
TSS reference		sic call/Sending_of	_INVITE/		
Selection criteria	PICS 6.2.1/3				
Test Purpose name	Preconditions	indicated in the su	pported header		
Test Purpose	Ensure that of performed on request is ser	n receipt of an IAM a previous circuit' nt and the Supporte	and the continuity indi or 'Continuity check reed d header contains the n UPDATE request is	quired on this value <b>preco</b> i	circuit' an INVITE
ISUP Parameter values	check	performed on previ	ious circuit	•	this circuit or continuity
OID D			nuity check successful		
SIP Parameter values	SDP	pported: preconditi a=curr:qos local na=curr:qos remote a=des:qos manda a=des:qos none re	one none tory local sendrecv		
	183: Require: SDP	a=curr:qos local n a=curr:qos remote a=des:qos manda	e none tory local sendrecv tory remote sendrecv		
	UPDATE: SDP				
Comments	200 OK UPD. SDP	a=curr:qos local se a=curr:qos remote a=des:qos manda			
Message flows	ISUI	<b>3</b>	MGCF		Mg
message nows	IAM	<b>→</b>		→ PRAC ← 200 C → UPDA ← 200 C	TE Trying Session Progress CK DK (PRACK)
← 200 OK (UP Apply post test routine				JK (UPDATE)	

TP number	TP_201_004	Reference	7.2.3.2.1.3				
TSS reference	ISUP-SIP/Basic call/S	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 6.2.1/11						
Test Purpose name	Information request p	procedure successful, Calling	party number in INF received				
Test Purpose	Request (INR) messa	Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message containing a calling party number the initial INVITE request is sent					
ISUP Parameter values	INR: Calling party a INF: Calling party a	INR: Calling party address request indicator=calling party address requested					
SIP Parameter values							
Comments							
Message flows	ISUP IAM INR INF	MGCF → ← →	Mg → INVITE				
	← 100 Trying  Apply post test routine						

TP number	TP_201	_005	Reference	7.2.3.2.1.3		
TSS reference	ISUP-S	IP/Basic call/Sending_o	f_INVITE/			
Selection criteria	PICS 6.	.2.1/11 AND PICS 6.2.1	/12			
Test Purpose name	Informa call is re		not successful, no Calling party	/ number in INF received, the		
Test Purpose	Reques	Ensure that on receipt of an 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	INR: (		present quest indicator=calling party ac sponse=calling party address r			
SIP Parameter values		<u> </u>	<u> </u>			
Comments						
Message flows	IAM INR INF	SUP	MGCF	Mg		
	RLC	<b>→</b>	Apply post test routine			

TP number	TP_201_006	Reference	7.2.3.2.1.3				
TSS reference	ISUP-SIP/Basic call/Sending_c	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 6.2.1/11 AND NOT PICS	6.2.1/12					
Test Purpose name	Information request procedure call is continued	not successful, no Calling part	y number in INF received, the				
Test Purpose	Request (INR) message is sen	Ensure that on receipt of an 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 continued					
ISUP Parameter values	INR: Calling party address re	INR: Calling party address request indicator=calling party address requested					
SIP Parameter values							
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →						
	INR ←						
	INF → INVITE						
	← 100 Trying						
		Apply post test routine					

TP number	TP_20	01_007		Reference	7.2.3.2.1.3		
TSS reference	ISUP-	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS	6.2.1/11					
Test Purpose name	Inform	ation request pro	ocedure	not successful, T 33 is	expired		
Test Purpose				M and no Calling party to the control of the care of t	number is present, an Information I, the call is rejected		
ISUP Parameter values	IAM: INR:	IAM: No calling party number present					
SIP Parameter values					-		
Comments							
Message flows		ISUP		MGCF	Mg		
	IAM INR		<b>→</b>	Start T <sub>33</sub>			
	REL	REL ← T <sub>33</sub> Expiry					
	RLC Apply post test routine						

TP number	TP_201_008	Reference	7.2.3.2.1.4 a)		
TSS reference	ISUP-SIP/Basic call/S	ending_of_INVITE/	·		
Selection criteria					
Test Purpose name		ling determined by receipt			
Test Purpose	Ensure that on receipt	of an 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	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
	Apply post test routine				

TP number	TP_201_009	Reference	7.2.3.2.1.4 b)				
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/						
Selection criteria							
Test Purpose name	End of address signalling determined by receipt of the maximum number of digits used in the national numbering plan						
Test Purpose	Ensure that on receipt of an IAM and the called party number contains maximum number of digits used in the national numbering plan, the initial INVITE is sent						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	NVITE				
		<b>+</b>	100 Trying				
	Apply post test routine						

TP number	TP_201_010	Reference	7.2.3.2.1.4 c)			
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria						
Test Purpose name	End of address signalling detection call to the called party	End of address signalling determined by receipt of sufficient number of digits to route the call to the called party				
Test Purpose	Ensure that on receipt of an IAM and the called party number contains a <b>sufficient</b> number of digits to route the call to the called party, the initial INVITE is sent					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	Apply post test routine					

TP number	TP_201_011	Reference	7.2.3.2.1.4 d)				
TSS reference	ISUP-SIP/Basic call/Sending_o	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria							
Test Purpose name	End of address signalling dete	rmined by observing that timer	Ti/w1 has expired				
Test Purpose	Ensure that on receipt of an IAM followed by several SAMs and the minimum number of digits required for routing the call have been received timer Ti/w1 is started. When timer Ti/w1 is expired the initial INVITE is sent						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM → SAM → SAM →	Start Ti/w1					
		Timeout Ti/w1 →	INVITE 100 Trying				
		Apply post test routine	, ,				

TP number	TP_201_012		Reference		7.2.3.2.1.4		
TSS reference	ISUP-SIP/Basic call/S	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria							
Test Purpose name	Early ACM is sent aft	er expiry	of Ti/w2 receipt of er	nd-of-pulsi	ing signal		
Test Purpose		Ensure that an initial INVITE is sent after receipt of end-of-pulsing signal, the timer Ti/w2 is started. After expiry of Ti/w2 an ACM is sent and the called party status indicator is set to 'no indication'					
ISUP Parameter values	ACM: Called party s	tatus=no	indication				
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF		ı	Иg	
	IAM SAM	<b>→</b>					
	SAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE 100 Trying		
	ACM	ACM ← Timeout Ti/w2  Apply post test routine					

TP number	TP 201 013		Reference		7.2.3.2.1.4		
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria							
Test Purpose name		Early ACM is sent after expiry of Ti/w2 receipt of the maximum number of digits used in the					
	national numbering p	lan					
Test Purpose	Ensure that an initial	INVITE i	is sent after receipt of	the maxin	num number o	of digits used in	
	the national numbering	ng plan, i	the timer Ti/w2 is start	ted. After	expiry of Ti/w2	2 an ACM is sent	
	and the called party s	status ind	dicator is set to 'no ind	lication'			
ISUP Parameter values	ACM: Called party s	tatus=no	indication				
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF			Mg	
	IAM	<b>→</b>					
	SAM	<b>→</b>					
	SAM	→	Start Ti/w2	<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	ACM	<b>←</b>	Timeout Ti/w2		, ,		
			Apply post test r	outine			

TP number	TP 201 014		Reference		7.2.3.2.1.4		
TSS reference		ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria							
Test Purpose name	Early ACM is sent a	Early ACM is sent after expiry of Ti/w2 receipt of a sufficient number of digits to route the					
	call to the called par	call to the called party					
Test Purpose		Ensure that an initial INVITE is sent after receipt of a sufficient number of digits to route the					
	call to the called par	ty, the tin	ner Ti/w2 is started. A	fter expiry	of Ti/w2 an AC	CM is sent and	
	the called party stat	us indicat	tor is set to 'no indicat	ion'			
ISUP Parameter values	ACM: Called party	status=no	o indication				
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF			Mg	
_	IAM	<b>→</b>				_	
	SAM	→					
	SAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	ACM	<b>←</b>	Timeout Ti/w2		, 3		
		Apply post test routine					

TP number	TP_201_015	Re	ference	7.2.3.2.1.4		
TSS reference	ISUP-SIP/Basic call	ISUP-SIP/Basic call/Sending of INVITE/				
Selection criteria	PICS 6.2.3/3					
Test Purpose name	A PSTN XML Sendi	ngCompleteInd	dication is sent if the end o	f the address signalling is		
	determined					
Test Purpose	Ensure that the end	of the address	signalling is determined a	PSTN XML		
	SendingCompleteIn	dication is sent	t			
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>				
	SAM	<b>→</b>				
	SAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
		Apply post test routine				

TP number	TP_201_016	Reference		7.2.3.2.1a.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.3/1				
Test Purpose name	Overlap dialling using the in-dialogue method				
Test Purpose	Ensure that on receipt of a 183 Session Progress as a response to an INVITE containing an insufficient number of digits, the SUT sends all the digits received in additional SAMs in an additional INVITE and INFO requests depends on whether a final response or provisional response was received for the initial INVITE request. The INFO request contains an x-session-info attachment SubsequentDigit includes the digits received in the SAMs				
ISUP Parameter values					
SIP Parameter values	INFO: Subsequenti	Digit: <digits in<="" received="" td=""><td>SAMs&gt;</td><td></td></digits>	SAMs>		
Comments					
Message flows	ISUP IAM CASE A	MG →	iCF →	<b>Mg</b> INVITE	
			<b>←</b> →	484 Address Incomplete ACK	
	SAM	<b>→</b>	<b>→</b>	INVITE 183 Session Progress	
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)	
	CASE B		<b>←</b>	183 Session Progress	
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)	
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)	
		Apply po	st test routine		

TP number	TP_201_017	Refere	ence	7.2.3.2.1a.3			
TSS reference	ISUP-SIP/Ba	sic call/Sending_of_INVI	ΓΕ/				
Selection criteria	PICS 6.2.3/2						
Test Purpose name	Overlap dialli	ng using the multiple INV	ITE method				
Test Purpose	containing an additional SA	Ensure that on receipt of a 484 Address Incomplete as a response to an INVITE request containing an insufficient number of digits, the SUT sends all the digits received in additional SAMs in an additional INVITE requests. The Call-ID and the From tag values are identical to the values sent in the initial INVITE					
ISUP Parameter values							
SIP Parameter values  Comments	Fre	equest URI <all receiv<br="" the="">om: tag=<equal initial="" l<br="" to="">all-ID: <equal in\<="" initial="" th="" to=""><th>NVITE&gt;</th><th>AMs&gt;</th></equal></equal></all>	NVITE>	AMs>			
Message flows	ISUI		MGCF	Mg			
Message nows	IAM	<del>)</del>	→ ← →	INVITE 484 Address Incomplete ACK			
	SAM	<b>→</b>	→ ← →	INVITE 484 Address Incomplete ACK			
	SAM	→ App	→ y post test routine	INVITE			

TP number	TP_201_018	Reference	7.2.3.2.1.1a.3
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/	
Selection criteria			
Test Purpose name	After expiry of Ti/w2 additiona	I received SAMs are ignored	
Test Purpose	Ensure that after expiry of Ti/v	v2 an ACM is sent and the calle	ed party status indicator is set
	to 'no indication' and additiona	Il received SAMs are ignored	
ISUP Parameter values	ACM: Called party status=no	indication	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →		
	SAM →		
	SAM →	Start Ti/w2 →	INVITE
		<b>←</b>	100 Trying
	ACM <b>←</b>	Timeout Ti/w2	, ,
	SAM →		
		Apply post test routine	

TP number	TP_201_019	Reference	7.2.3.2.1a.3			
TSS reference	ISUP-SIP/Basic call/Sending	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.3/1					
Test Purpose name	Overlap dialling using the in-	dialogue method				
Test Purpose		80 Ringing while the in-dialogue	procedure is used an			
IOUR B	additional received SAM is ig	gnorea				
ISUP Parameter values						
SIP Parameter values	INFO: SubsequentDigit: <dig< th=""><th>gits received in SAMs&gt;</th><th></th></dig<>	gits received in SAMs>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→	INVITE			
		<b>+</b>	484 Address Incomplete			
		<b>→</b>	ACK			
		_				
	SAM →	→	INVITE			
		<b>←</b>	183 Session Progress			
	SAM →	<b>→</b>	INFO			
		<b>←</b>	200 OK (INFO)			
	ACM ←	<b>+</b>	180 Ringing			
	SAM →	•	100 Kinging			
	SAIVI	Apply post test routine				

TP number	TP_201_	020	Reference		7.2.3.2.1a.3
TSS reference	ISUP-SIF	P/Basic call/Sending_c	f_INVITE/		•
Selection criteria	PICS 6.2	.3/2			
Test Purpose name	Overlap o	dialling using the multi	ple INVITE method		
Test Purpose	Ensure th	nat on receipt of a 180	Ringing while the multipl	le IN\	/ITE procedure is used an
	additiona	I received SAM is igno	ored		
ISUP Parameter values					
SIP Parameter values	INVITE:	Request URI <all th="" the<=""><th>e received digits in IAM a</th><th>nd SA</th><th>AMs&gt;</th></all>	e received digits in IAM a	nd SA	AMs>
		From: tag= <equal th="" to<=""><th></th><th></th><th></th></equal>			
		Call-ID: <equal in<="" th="" to=""><th>tial INVITE&gt;</th><th></th><th></th></equal>	tial INVITE>		
Comments					
Message flows	1	ISUP	MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	484 Address Incomplete
				<b>→</b>	ACK
	SAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	484 Address Incomplete
				<b>→</b>	ACK
	0.4.4	•			INDUCTE
	SAM	<b>→</b>		<b>→</b>	INVITE
	ACM	<del>(</del>		<b>←</b>	180 Ringing
	SAM	<b>→</b>			
			Apply post test routing	ne	

TP number	TP 201 021		Reference	7.2.3.2.1a.3			
TSS reference		sic call/Sending_of		,			
Selection criteria		AND PICS 6.2.1/3					
Test Purpose name			le INVITE method	and preconditions used			
Test Purpose	Ensure that of performed or requests are value <b>precor</b>	on receipt of an IAM n a previous circuit' sent for all digits to	I and the continuit or 'Continuity che be transferred an	y indicator is set to 'Continuity check ck required on this circuit' the INVITE d the Supported header contains the age is received, an UPDATE request is			
ISUP Parameter values	IAM: Nature	IAM: Nature of connection indicator= continuity check required on this circuit or continuity					
		check performed on previous circuit					
		nuity indicator=cont					
SIP Parameter values	INVITE: Request URI <all and="" digits="" iam="" in="" received="" sams="" the=""> From: tag=<equal initial="" invite="" to=""> Call-ID: <equal initial="" invite="" to=""> 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</equal></equal></all>						
	183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos 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						
	200 OK UPD SDP	a=curr:qos local s a=curr:qos remote a=des:qos manda a=des:qos manda	e sendrecv Itory local sendrec				
Comments	The SAMs sh	nould sent within the					
Message flows	ISU		MGCF	Mg			
	IAM	<del>)</del>		<ul><li>→ INVITE</li><li>← 484 Address Incomplete</li><li>→ ACK</li></ul>			
	SAM → INVITE						
	SAM	<b>→</b>		<ul> <li>→ INVITE</li> <li>← 183 Session Progress</li> <li>→ PRACK</li> <li>← 200 OK (PRACK)</li> </ul>			
	СОТ	<b>→</b>		<ul><li>→ UPDATE</li><li>← 200 OK (UPDATE)</li></ul>			
			Apply post test	routine			

TP number	TP_201_022	Reference	7.2.3.2.1a.3			
TSS reference	ISUP-SIP/Basic call/Sending of INVITE/					
Selection criteria	PICS 6.2.3/1					
Test Purpose name	Timer Ti/w3 expires, REL caus	e 28 is sent				
Test Purpose	Ensure that on expiry of timer	Γi/w3 a REL is sent and the cau	use value is set to #28			
ISUP Parameter values	REL: Cause=invalid number f	format (address incomplete)				
SIP Parameter values	INVITE: Request URI <all th="" the<=""><th>e received digits in IAM and SA</th><th>Ms&gt;</th></all>	e received digits in IAM and SA	Ms>			
	From: tag= <equal th="" to<=""><th>initial INVITE&gt;</th><th></th></equal>	initial INVITE>				
	Call-ID: <equal in<="" th="" to=""><th>itial INVITE&gt;</th><th></th></equal>	itial INVITE>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		Start Ti/w3	484 Address Incomplete			
		<b>→</b>	ACK			
	SAM →	<b>→</b>	INVITE			
		Start Ti/w3	484 Address Incomplete			
		<b>→</b>	ACK			
	REL ← Timeout Ti/w3					
	RLC →					
		Apply post test routine				

TD	TD 004 000	In contract	T-00045					
TP number	TP_201_023	Reference	7.2.3.2.1.5					
TSS reference		/Sending_of_INVITE/						
Selection criteria	PICS 6.2.1/5							
Test Purpose name		USI prime into PSTN XML Bea						
Test Purpose	Ensure that on recei	ipt of an IAM that includes a US	I and USI Prime parameter then the					
		Map the USI Prime into the second Bearer Capability stated in the XML						
		BearerCapability element and						
		The first offered codec is the CLEARMODE codec						
	<ul> <li>Map the USI int element and</li> </ul>	<ul> <li>Map the USI into the first Bearer Capability stated in the XML BearerCapability element and</li> </ul>						
	<ul> <li>The second offer</li> </ul>	ered codec is a Audio codec						
ISUP Parameter values	IAM: USI=speech							
		nrestricted digital info with T/A						
		64 kBit/s preferred						
		deo Telephony)						
SIP Parameter values	INVITE:							
	xml version="1.0"</th <th>encodina="utf-8"?&gt;</th> <th></th>	encodina="utf-8"?>						
	PSTN							
	BearerCapability	,						
	BCoctet3							
	CodingSt	andard>00<						
		onTransferCapability>mapped fi	om USI<					
	****							
	BearerCapability	1						
	BCoctet3							
		andard>00<						
	Information	onTransferCapability>mapped fi	om USI prime<					
	SDP:							
		m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper>						
Comments	addio spropor po	The state of the s	<u> </u>					
Message flows	ISUP	MGCF	Mg					
	IAM	→	→ INVITE					
	17 1171	-	← 100 Trying					
		Apply post test re						

TP number	TP_201_024	Reference	7.2.3.2.2.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria						
Test Purpose name	Called party number is mappe	d into Request URI in the sent	INVITE request			
Test Purpose	Ensure that on receipt of an IA of the sent INVITE request:	M the called party number is r	napped into the Request URI			
	country code of the netwo before the number digits r	dicator is set to 'National (sign rk in which the SUT is located eceived in the Called party nu	and a leading '+' is inserted mber			
	<ul> <li>If the nature of address sed digits received in the Callet</li> </ul>		' is inserted before the number			
ISUP Parameter values	IAM: Called party number= National (significant) number or International number					
SIP Parameter values	INVITE: Request URI					
	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone</called>					
	or					
	tel: '+CC' <called digits="" number="" party=""></called>					
	if the called party number is a <b>national number</b>					
	sip: '+' <called digits="" number="" party="">@hostportion; user=phone</called>					
	or					
	tel: '+' <called digits="" number="" party=""> if the called party number is an international number</called>					
0	if the called party numb	er is an <b>international numbe</b>	r			
Comments	IOUD	14005				
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
		Apply post test routine				

TP number	TP_201_025	Reference	7.2.3.2.2.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria						
Test Purpose name	Called party number is mapped into To header in the sent INVITE request					
Test Purpose	Ensure that on receipt of an IAM the called party number is mapped into the Request URI of the sent INVITE request:					
			onal (significant) number' then the			
		ne network in which the SUT er digits received in the Called	is located and a leading '+' is inserted			
			mber' a '+' is inserted before the number			
		the Called party number	mber a 1 is inserted before the number			
ISUP Parameter values	IAM: Called party number= National (significant) number or International number					
SIP Parameter values	INVITE: To					
	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone</called>					
	or					
	tel: '+CC' <called digits="" number="" party=""></called>					
	if the called party number is a <b>national number</b>					
	sip: '+' <called digits="" number="" party="">@hostportion; user=phone</called>					
	or					
		called party number digits>				
	if the called party number is an international number					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
			<ul><li>100 Trying</li></ul>			
	Apply post test routine					

TP number	TP_201_026	Reference	7.2.3.2.2.2.			
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/				
Selection criteria						
Test Purpose name	Mapping of TMR into SDP					
Test Purpose	Ensure that on receipt of an IAI	M the <b>TMR_value</b> is mapped in	nto 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> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>					
Comments						
Message flows	ISUP	MGCF	Mg			
	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	7.2.3.2.2.2	
TSS reference	ISUP-SIP/Basic call/Sending_c	of_INVITE/	•	
Selection criteria				
Test Purpose name	AMR codec included			
Test Purpose	Ensure that on receipt of an IAI	M an INVITE is sent. If the rece	eived IAM contains a TMR set	
	to speech or 3,1 kHz audio, the	SDP in the sent INVITE conta	ains an AMR codec	
ISUP Parameter values	IAM: TMR=speech or 3,1 kHz	z 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	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	Apply post test routine			

TP number	TP_201_028	Reference	7.2.3.2.2.2	
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/		
Selection criteria				
Test Purpose name	Mapping of USI parameter			
Test Purpose	Ensure that on receipt of an IAI	M the <b>USI_value</b> is mapped in	to the SDP according	
	table 6.1.2.1-2			
ISUP Parameter values	IAM: User service information	1		
SIP Parameter values	INVITE:			
	SDP			
	m= <media> <transport> <fmt-list></fmt-list></transport></media>			
	a= rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>			
Comments				
Message flows	ISUP	MGCF	Mg	
	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	meter	HLC	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 ITU-T T.38 [4]

TP number	TP_201_029	Reference	7.2.3.2.2.3A	
TSS reference	ISUP-SIP/Basic call/Sending_o	of_INVITE/		
Selection criteria				
Test Purpose name	Mapping of Calling party's cate	gory into cpc parameter		
Test Purpose	Ensure that on receipt of an IAM the calling party's category <b>CPC_value</b> is mapped into the 'cpc' parameter in the P-Asserted-Identity and the Accept-Language header in the sent INVITE as described in table 6.1.2.1-3			
ISUP Parameter values	IAM: Calling party's category			
SIP Parameter values	INVITE: P-Asserted-Identity			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	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	e ISUP IAM parameter SIP Parameter		neters
	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	7.2.3.2.2.4	
TSS reference	ISUP-SIP/Basic call/Sending_c	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 value of the Max-Forwards heads	ue is mapped into the	
	Max-Forwards header. The value of the Max-Forwards header is created from the HOP counter value by applying a given factor			
ISUP Parameter values	IAM: HOP			
SIP Parameter values	INVITE: Max-Forwards			
Comments	The factor used to map from Hop Counter to Max-Forwards for a given call will depend on call origin, and will be provisioned at the O-MGCF based on network topology, trust domain rules, and bilateral agreement.			
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b>	INVITE	
	← 100 Trying			
	Apply post test routine			

TP number	TP_201_031	Reference	7.2.3.2.2.5		
TSS reference	ISUP-SIP/Basic call/	Sending_of_INVITE/	•		
Selection criteria		<b>~</b>			
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					
SIP Parameter values	Accept-Co	INVITE: Contact: icsi-ref			
Comments					
Message flows	ISUP	MGCF	Mg		
-	IAM	<b>→</b>	→ INVITE		
	← 100 Trying				
		Apply post test routine			

TP number	TP_201_032	Reference		7.2.3.2.2.6	
TSS reference	ISUP-SIP/Basic cal	I/Sending_of_INVITE/		·	
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Support of P-Early-	Media header			
Test Purpose	Ensure that on rece	Ensure that on receipt of an IAM a P-Early-Media header is present in the sent INVITE			
	request	request			
ISUP Parameter values					
SIP Parameter values	INVITE: P-Early-I	Media: supported			
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
		Apply po	st test routine		

TP number	TP_201_033	Reference	7.2.3.2.2.7	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of High Layer Compa	itibility IE into PSTN XML High	LayerCompatibility	
Test Purpose			resent containing a High Layer nt is present derived according	
	the HLC_VA as indicated in ta		3	
ISUP Parameter values	IAM:			
	ATP High Layer Compatibility			
	High Layer Characteris	tics=HLC_VA		
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	d>01<		
	HLOctet4			
	HighLayerCharacte	ristics>HLC_VA<		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	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	7.2.3.2.2.7	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Low Layer Compat	ibility IE into PSTN XML LowL	ayerCompatibility	
Test Purpose	Ensure stat on receipt of an IAI			
	Compatibility IE a PSTN XML I		t is present derived according	
	the ITC_VA as indicated in tab	le 6.1.2.1-5		
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	pability=ITC_VA		
SIP Parameter values	INVITE:			
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>		
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00<			
	InformationTransferCapability>ITC_VA<			
	LLOctet4>			
	TransferMode>00<			
_	InformationTransfer	Rate>10000<		
Comments				
Message flows	ISUP	MGCF	Mg	
	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	7.2.3.2.2.7	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Bearer Capability IE into PSTN XML BearerCapability			
Test Purpose	Ensure stat on receipt of an IAM and an USI parameter is present ,a PSTN XML			
	BearerCapability element is present derived according the ITC_value as indicated in			
	table 6.1.2.1-6			
ISUP Parameter values	IAM:			
	USI			
	Information Transfer Capability=ITC_value			
SIP Parameter values	rameter values  INVITE: xml version="1.0" encoding="utf-8"? PSTN  BearerCapability			
	BCoctet3			
	CodingStandard>00<			
Comments				
Message flows	ISUP	MGCF	Mg	
	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	7.2.3.2.2.7	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/22			
Test Purpose name	Mapping of ISUP UTI parameter into PSTN XML BearerCapability			
Test Purpose	Ensure stat on receipt of an IAM and an User Teleservice Information parameter is			
	present, a PSTN XML HighLayerCompatibility element is present derived according the			
	HLC_value as indicated in table 6.1.2.1-7			
ISUP Parameter values	IAM: UTI			
	High Layer Characteristics> <b>HLC_value</b>			
SIP Parameter values	INVITE:			
	PSTN XML MIME body			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics> <b>HLC_value</b> <			
Comments				
Message flows	ISUP	MGCF	Mg	
	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
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 gateways or interworking units	'0110011'
VA_07	Telex service	'0110101'
VA_08	FTAM application	'1000010'
VA_09	Videotelephony	'1100000'

TP number	TP_201_037	Reference	7.2.3.2.2.8		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_INVITE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Forward call indicator into PSTN XML ProgressIndicator				
Test Purpose	Ensure that on receipt of an IAM the ISDN User Part indicator and the ISDN access				
	indicator of the Forward call ind		NXML ProgressIndicator		
	element according the roles PI	_value in table 6.1.2.1-8			
ISUP Parameter values	IAM: Forward call indicator				
	ISDN User Part indi	cator			
	ISDN access indicat	tor			
SIP Parameter values	INVITE:				
	PSTM XML MIME body				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location>yyyy<				
	ProgressOctet4				
	ProgressDescription				
Comments	The Progress indicator value 6	is not specified in Q.931			
Message flows	ISUP	MGCF	Mg		
	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	7.2.3.2.2.7			
TSS reference	ISUP-SIP/Basic call/Sending_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 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=P	I_VA				
SIP Parameter values	INVITE:					
	xml version="1.0" encoding=</th <th colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	Location>0000<					
	ProgressOctet4					
	ProgressDescription	>PI_VA<				
Comments		·	·			
Message flows	ISUP	MGCF	Mg			
	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	'000010'
PI_VA_3	Origination address is non-ISDN	'000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a	'0000101'
	telecommunication service change	
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

Selection criteria PICS	SIP/Basic call/Sending_c 3.2.2/1	of_INVITE/		
	5.2.2/1			
Test Purpose name Numb				
Trains	Number Portability Separate Directory Number Addressing Method is used			
		M and the Called Directory Nu		
		outing number in national (sign		
	"National (significant) number" or "Network routing number in network specific number format", an INVITE us sent			
		IRI is derived from the Called I	Directory Number, '+CC' is	
1	d before the digitstring:		, , , , , , , , , , , , , , , , , , , ,	
		equest URI is derived from the	e Called Party Number. '+CC'	
	inserted before the digit		,	
• TI	ne <b>npdi</b> URI parameter i	s added to the <b>request URI</b>		
		field is derived from the Called	d Directory Number. '+CC' is	
inserte	d before the digitstring:		•	
• T	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:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Called Directory Number			
	Nature of address indicator:			
	"Network routing number in national (significant) number format" or			
		cant) number" or		
SIP Parameter values INVIT	"Network routing number in network specific number format"  INVITE: Request line <+CC Called Directory Number>; rn= +CC Called party			
SIP Parameter values INVIII	:: Request line <+CC number;npdi	Called Directory Numbers; m	= +CC Called party	
		rectory Number>; rn= +CC Ca	lled party number nodi	
Comments	10. VIOO Gailea Di	iodicity Humbolz, III— POO Od	noa party Hambor, inpar	
Message flows	ISUP	MGCF	Mg	
IAM	→	→	INVITE	
	•	<b>É</b>	100 Trying	
		Apply post test routine		

TP number	TP_201_040 R	Reference	7.2.3.2.2A1.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_	_INVITE/		
Selection criteria	PICS 6.2.2/2			
Test Purpose name	Number Portability Concatenated Addressing Method is used.			
Test Purpose	<ul> <li>Number Portability Concatenated Addressing Method is used.</li> <li>Ensure that on receipt of an IAM and the Called Directory Number is not present, the Nature of address indicator of the Called party number is set to: "Network routing number concatenated with called directory number" or "National (significant) number", an INVITE us sent</li> <li>The userpart of the request URI is derived from the Called Party Number - the prefix representing the Portability routing number is removed. '+CC' is inserted before the digitstring:</li> <li>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</li> <li>The npdi URI parameter is added to the request URI</li> <li>The userpart of the To header field is derived from the Called Party Number- the prefix representing the Portability routing number is removed. '+CC' is inserted before the digitstring:</li> <li>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.</li> </ul>			
ICUD Devementes values	The npdi URI parameter is added to the request URI  IAM: Called party number.			
ISUP Parameter values	IAM: Called party number  Nature of address in	dicator:		
		umber concatenated with ca	lled directory number" or	
	"National (significa		iled directory fidiliber of	
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				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		Annly neet test restine	100 Trying	
		Apply post test routine		

TP number	TP_201_041	Reference	7.2.3.2.2A1.3	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/3			
Test Purpose name	Number Portability Separate N	letwork Routing Number Addre	essing Method is used.	
Test Purpose	Ensure that on receipt of an IAM and the Network Routing Number is present Nature of address indicator: "Network routing number in national (significant) number format" or "Network routing number in network specific number format", an INVITE us sent The userpart of the request URI is derived from the Called 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 npdi URI parameter is added to the request URI The userpart of the To header field is derived from the Called 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 npdi URI parameter is added to the request URI			
ISUP Parameter values	IAM: Called party number "National (significant) number" 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 Party Number>; rn= <+CC Network Routing Number>;npdi			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

TP number	TP_201_042	Reference	7.2.3.2.2B.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/5 AND PICS 6.2.2/	8		
Test Purpose name	Mapping of ISUP carrier select	ion information into 'dai' URI pa	arameter	
Test Purpose	Ensure that on receipt of an IAM and a Transit Network Selection parameter is present, the value of the Transit Network Selection parameter is sent in the <b>cic</b> URI parameter of the <b>Request URI</b> of the sent INVITE request			
ISUP Parameter values	IAM: Transit Network Selection	on		
SIP Parameter values	INVITE: Request URI sip: <0	called party number;cic=TNS va	alue	
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	Apply post test routine			

TP number	TP_201_042	Reference	7.2.3.2.2.8	
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.2/5 AND PIC	CS 6.2.2/9		
Test Purpose name	Mapping of ISUP carri	ier selection information into 'c	lai' URI parameter	
Test Purpose	Ensure that on receipt of an 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 Networ	k Selection		
SIP Parameter values	INVITE: Request UF	RI sip: <called number;da<="" party="" th=""><th>ai= <b>SIP_dai</b></th></called>	ai= <b>SIP_dai</b>	
Comments				
Message flows	ISUP MGCF Mg			
	IAM	<b>→</b>	→ 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 Receipt of CONTINUITY

TP number	TP 202 001	Reference	7.2.3.2.3		
TSS reference			7.2.3.2.3		
	ISUP-SIP/Basic call/Receipt_of_COT/				
Selection criteria	PICS 6.2.1/3				
Test Purpose name	COT received after INVITE w	as sent			
Test Purpose	When the requested precond	tions in the IMS have been	met and if outstanding continuity		
	procedures have successfully	been completed (COT with	the Continuity Indicators		
			), a SDP offer in a SIP UPDATE		
	request shall be sent for each				
	preconditions have been met	carry on alarogue commin	ing that all the required		
ISUP Parameter values	procentations have been met				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
			183 Session Progress		
		=	PRACK		
		=			
		~	200 OK (PRACK)		
	COT →	<b>→</b>	UPDATE		
			200 OK(UPDATE)		
		Apply post test routing	,		

## 6.1.2.3 Sending of ACM and awaiting answer indication

TP number	TP_203_001	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria					
Test Purpose name	Detection of end of address sig	gnalling by the expiry of Timer	Ti/w1		
Test Purpose	Ensure that after expiry of Tim	er Ti/w1 after the last address	signalling information was		
	received, an ACM is sent and	the Called party's status indica	tor is set to 'no indication'		
ISUP Parameter values	<b>ACM:</b> Called party's status inc	dicator=no indication			
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →				
	Ti/w1 running				
	SAM >				
		Ti/w1 running			
	SAM →				
	Ti/w1 running				
	ACM ←	Ti/w1 expired			
	→ INVITE				
	← 100 Trying				
		Apply post test routine			

TP number	TP_203_002	Reference	7.2.3.2.4
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/	
Selection criteria			
Test Purpose name	An ACM is sent after a 180 Rin		
Test Purpose	Ensure that on receipt of a 180	Ringing provisional respon	nse without P-Early-Media
	header, the SUT sends an ACM	I. The Called party's statu	s indicator is set to 'subscriber
	free'. The ringing tone is sent b		
ISUP Parameter values	ACM: Called party's status ind	icator =subscriber free	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	ACM ←	<b>←</b>	180 Ringing
	<b>←</b> /	Ringing tone	
		Apply post test routine	9

TP number	TP_203_003	Referenc	е	7.2.3.2.4	1	
TSS reference	ISUP-SIP/Basic call/S	Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9					
Test Purpose name	180 received, a P-Ear	rly-Media header is i	oresent			
Test Purpose	does not authorize the	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	status indicator =sul	oscriber free			
SIP Parameter values						
Comments						
Message flows	ISUP IAM ACM	MGC →  ←  Ringing tor  Apply p	<b>→</b> ←	INVITE 100 Trying 180 Ringing	Mg	

TP number	TP_203_004	Reference		7.2.3.2.4	
TSS reference	ISUP-SIP/Basic call,	/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/9 AND P	PICS 6.2.1/14			
Test Purpose name	180 received, a P-E	arly-Media header not auth	orize early	media is preser	nt
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'. Based on local knowledge that the call is transited to a PSTN network the SUT does not generate the awaiting answer indication.				
ISUP Parameter values	ACM: Called party's	s status indicator =subscrib	er free		
SIP Parameter values	180 P-Early-Media: inactive				
Comments					
Message flows	ISUP	MGCF			Иg
_	IAM	<b>→</b>	-	NVITE 100 Trying	
	ACM	<del>(</del>	<b>←</b> 1	180 Ringing Early media	
		Apply post t	est routine	)	

TP number	TP_203_005	Refe	rence	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic cal	SUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9				
Test Purpose name	181 received, a P-E	arly-Media head	er authorize early n	nedia is present		
Test Purpose	authorizing backwa set to 'no indication' information indicato	Ensure that on receipt of a 181 Call is Being Forwarded and a P-Early-Media 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 status indicator =no indication oBCi = in-band information or appropriate pattern is now available				
SIP Parameter values	181 P-Early-Media:					
Comments		,				
Message flows	ISUP IAM ACM	<b>→ ← ←</b>	MGCF	Mg INVITE 100 Trying 181 Call is Being Forwarded Early media		
		Ap	ply post test routi	ne		

TP number	TP_203_006	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/	Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9				
Test Purpose name	183 received, a P-Ea	arly-Media header authorize	e early media is present			
Test Purpose	authorizing backward set to 'no indication' information indicator	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 status indicator =no indication oBCi = in-band information or appropriate pattern is now available					
SIP Parameter values	183 P-Early-Media: s	endonly				
Comments		•				
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE ← 100 Trying			
	ACM	<b>←</b>	← 183 Session Progress			
		<b>←</b>	← Early media			
		Apply post te	st routine			

TP number	TP_203_007	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_	of_ACM/			
Selection criteria					
Test Purpose name	ACM is sent after T i/w2 was e	expired			
Test Purpose	Ensure that after expiry of timer T i/w2 an ACM is sent. The Called party's status indicator is set to 'no indication'				
ISUP Parameter values	ACM: Called party's status in	dicator =no indication			
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →		NVITE 100 Trying		
	ACM ←	T i/w2 expired Apply post test routine	•		

TP number	TP_203_008	Refere	ence	7.2.3.2.4	
TSS reference	ISUP-SIP/Basic call/	Sending_of_ACM	/		
Selection criteria	PICS 6.2.1/15				
Test Purpose name	MGW plays out early	/ media associate	d with the Alert-In	fo header	
Test Purpose	Ensure that the MGW plays a early media associated with the URL in an Alert-Info header contained in a received 180 Ringing response				
ISUP Parameter values					
SIP Parameter values	180: Alert-Info: < N	Media resource UF	RL>		
Comments					
Message flows	ISUP	N	IGCF		Mg
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

TP number	TP_203_009	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1	/17			
Test Purpose name	The SUT terminates the sendi	ing of awaiting answer indicati	on.		
Test Purpose	Ensure that the SUT terminates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header does not authorizes backward early media. The sending awaiting answer indication is disabled.				
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: inactive	)			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	T i/w2 started → IN'	VITE		
		<b>←</b> 10	0 Trying		
	ACM ←	T i/w2 expired			
	Ringing ton	ne			
		<b>←</b> 18	3 Session Progress		
		Apply post test routine			

TP number	TP_203_010	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/	16			
Test Purpose name	The SUT initiates the sending of	of awaiting answer indication	on		
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header authorizes backward early media				
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: sendonly				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →		NVITE I 00 Trying		
	ACM ←	<b>←</b> ·	183 Session Progress		
	← Early media				
	Apply post test routine				

TP number	TP 203 011	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	<del>-</del>					
Test Purpose name	180 received, coding of Backy	ard call indicator in ACM	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 180	Ringing response, an AC	M is sent and the Backward call			
	indicator is set to the following	indicator is set to the following values:				
	Charge indicator = charge (10)					
	<ul> <li>Called party's status indic</li> </ul>	Called party's status indicator = subscriber free (01)				
	<ul> <li>Called party's category in</li> </ul>	<ul> <li>Called party's category indicator = no indication (00)</li> </ul>				
	<ul> <li>End-to-end method indicator = no end-to-end method available (00)</li> </ul>					
	<ul> <li>Interworking indicator = in</li> </ul>		` ,			
	End-to-end information in					
	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					
SIP Parameter values		·				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
		Apply post test routir	ne			

TP number	TP_203_012	Ref	erence	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria						
Test Purpose name	181 received, c	181 received, coding of Backward call indicator in ACM TMR speech or 3,1 kHz audio				
Test Purpose				speech or 3,1 kHz received.		
	Ensure that on	receipt of a 181 Cal	I is Being forwarded	response, an ACM is sent and the		
	Backward call in	ndicator is set to the	following values:			
	<ul> <li>Charge ind</li> </ul>	icator = charge (10)				
	<ul> <li>Called part</li> </ul>	y's status indicator	= no indication (00)			
		<ul> <li>Called party's category indicator = no indication (00)</li> </ul>				
	<ul> <li>End-to-end</li> </ul>	method indicator =	no end-to-end metho	od available (00)		
			orking encountered (	` '		
		•	•	formation 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			irement indicator=sp			
SIP Parameter values		•	•			
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<del>(</del>	100 Trying		
	ACM	<b>←</b>	<b>←</b>	181 Call is Being forwarded		
		Α	pply post test routi			

TP number	TP_203_013	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending of ACM/					
Selection criteria	5=	PICS 6.2.1/9 AND NOT PICS 6.2.1/18				
Test Purpose name	183 received, coding of Backward call indicator in ACM 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 183 Session Progress response containing a P-Early-Media header, 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 = 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					
SIP Parameter values	183: P-Early-Media: <backw< th=""><th>ard early media authorize</th><th>d&gt;</th></backw<>	ard early media authorize	d>			
Comments	•	•				
Message flows	ISUP MGCF Mg					
	IAM → INVITE					
		Apply post test routing	1e			

TP number	TP_203_01	4	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.4/	2 AND NOT PICS (	5.2.1/18		
Test Purpose name	180 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
	Ensure that	on receipt of a 180	Ringing response, an A	CM is sent and the Backward call	
	indicator is	set to the following	values:		
	<ul> <li>Charge</li> </ul>	indicator = charge	(10)		
	<ul> <li>Called</li> </ul>	party's status indica	ator = subscriber free (01	)	
	<ul> <li>Called</li> </ul>	party's category inc	licator = no indication (00	)	
	<ul> <li>End-to-</li> </ul>	end method indicate	tor = no end-to-end meth-	od available (00)	
	<ul> <li>Interwo</li> </ul>	orking indicator = inf	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)				
			erminating access non-IS		
				rol device not included (0)	
ISUP Parameter values	IAM: Tran	smission Medium F	Requirement indicator=64	kBit/s unrestricted	
SIP Parameter values					
Comments					
Message flows	IS	UP	MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
			Apply post test routi	ne	

TP 203 015	Reference	7.2.3.2.5.1		
		1.2.3.2.3.1		
	•			
IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
Ensure that on rec	eipt of a 181 Call is Being for	warded response, an ACM is sent and the		
Backward call indic	cator is set to the following va	lues:		
<ul> <li>Charge indica</li> </ul>	tor = charge (10)			
•	• ,	n (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 i</li> </ul>	indicator = terminating access	non-ISDN (0)		
<ul> <li>Echo control c</li> </ul>	device indicator = incoming ed	ho control device not included (0)		
IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
ISUP	MGCF	Mg		
IAM	→	→ INVITE		
		← 100 Trying		
ACM	<b>←</b>	← 181 Call is Being forwarded		
Apply post test routine				
	PICS 6.2.4/2 AND 181 received, codi IAM with Transmis Ensure that on rec Backward call indie Charge indica Called party's Called party's End-to-end m Interworking in ISDN user pa ISDN access Echo control of IAM: Transmissie	ISUP-SIP/Basic call/Sending_of_ACM/ PICS 6.2.4/2 AND NOT PICS 6.2.1/18  181 received, coding of Backward call indicator IAM with Transmission Medium Requirement ind Ensure that on receipt of a 181 Call is Being for Backward call indicator is set to the following va  Charge indicator = charge (10)  Called party's status indicator = no indicatio Called party's category indicator = no indicatio End-to-end method indicator = no end-to-er Interworking indicator = interworking encour End-to-end information indicator = no end-to ISDN user part/BICC indicator = ISDN user ISDN access indicator = terminating access Echo control device indicator = incoming ed IAM: Transmission Medium Requirement indicator  ISUP  MGCF		

TP number	TP_203_016	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18 AND PICS 6.2.1/	9		
Test Purpose name	183 received, coding of Backw	ard call indicator in ACM	TMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 183 Session Progress response containing a P-Early-Media header, 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 = 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 I	Requirement indicator=64	kBit/s unrestricted		
SIP Parameter values	183: P-Early-Media: <backw< th=""><th>ard early media authorize</th><th>d&gt;</th></backw<>	ard early media authorize	d>		
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>+</b>	INVITE 100 Trying		
	ACM ← 183 Session Progress  Apply post test routine				

TP number	TP_203_017	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	18				
Test Purpose name	180 received, coding of Backw	ard call indicator in ACM	TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.					
	Ensure that on receipt of a 180	Ensure that on receipt of a 180 Ringing 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 indicate</li> </ul>	ator = subscriber free (01)				
	<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 metho	od available (00)			
	<ul> <li>Interworking indicator = no</li> </ul>	interworking encounte	red (0)			
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>					
	<ul> <li>ISDN user part/BICC indic</li> </ul>	ator = ISDN user part us	ed all the way (1)			
	<ul> <li>ISDN access indicator = te</li> </ul>	erminating access ISDN	(1)			
	<ul> <li>Echo control device indica</li> </ul>	tor = incoming echo contr	ol device not included (0)			
ISUP Parameter values	IAM: Transmission Medium F	Requirement indicator=64	kBit/s unrestricted			
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	Apply post test routine					

TP number	TP_203_018	Refe	rence	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.4/2 A	ND PICS 6.2.1/18			
Test Purpose name	181 received,	coding of Backward ca	all indicator in ACM	TMR 64 kBit/s unrestricted	
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
	Ensure that on	receipt of a 181 Call	is Being forwarded r	esponse, an ACM is sent and the	
	Backward call	indicator is set to the	following values:		
	<ul> <li>Charge in</li> </ul>	dicator = charge (10)			
	<ul> <li>Called par</li> </ul>	ty's status indicator =	no indication (00)		
	<ul> <li>Called par</li> </ul>	ty's category indicato	= no indication (00)		
	<ul> <li>End-to-en</li> </ul>	d method indicator = i	no end-to-end metho	od available (00)	
	<ul> <li>Interworking indicator = no interworking encountered (0)</li> </ul>				
	• End-to-end information indicator = no end-to-end information available (0)				
		r part/BICC indicator =		` ,	
		ess indicator = <b>termin</b>		* * *	
			•	ol device not included (0)	
ISUP Parameter values		ission Medium Requi		` /	
SIP Parameter values					
Comments					
Message flows	ISUP		MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	ACM	<b>←</b>	<b>←</b>	181 Call is Being forwarded	
		Ар	ply post test routin		

TP number	TP_203_019	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending				
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/				
Test Purpose name	183 received, coding of Backw		TMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 183 Session Progress response containing a P-Early-Media header, 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)				
IOUD Developed			rol device not included (0)		
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values	183: P-Early-Media: <backward authorized="" early="" media=""></backward>				
Comments	F-Early-Media. <backw< th=""><th>aru earry media admonze</th><th>eu&gt;</th></backw<>	aru earry media admonze	eu>		
Message flows	ISUP MGCF Mg				
message nows	IAM →	→ ← ←	INVITE 100 Trying 183 Session Progress		
		Apply post test routing	IC .		

TP number	TP_203_020	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria					
Test Purpose name	180 received, coding of Back	ward call indicator in ACM F	ILC "Facsimile Group 2/3".		
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 180 Ringing 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 = 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 not included (0)				
ISUP Parameter values		Requirement indicator=3,1 ity= Facsimile Group 2/3	kHz		
SIP Parameter values		y			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → ACM ←	→ ← ←	INVITE 100 Trying 180 Ringing		
	Apply post test routine				

TP number	TP_203_021	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_ACM/	·		
Selection criteria					
Test Purpose name	181 received, coding of Backw	ard call indicator in ACM	HLC "Facsimile Group 2/3".		
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 181 Call is Being forwarded 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 = 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		Requirement indicator=3,1			
	High Layer Compatibility= Facsimile Group 2/3				
SIP Parameter values		•			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → ACM ←	→ ← ←	INVITE 100 Trying 181 Call is Being forwarded		
	Apply post test routine				

TP number	TP_203_022	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9	<u> </u>			
Test Purpose name	183 received, codin	g of Backward call indicator	in ACM HLC "Facsimile Group 2/3".		
Test Purpose	IAM with Transmiss Compatibility= Facs Progress response call indicator is set t Charge indicator Called party's s Called party's o End-to-end me Interworking ind ISDN user part	cion Medium Requirement in simile Group 2/3 received. E containing a P-Early-Media to the following values: or = charge (10) status indicator = no indicator and indicator = no end-to-edicator = interworking encoupromation indicator = ISDN user dicator = terminating accession.	dicator=3,1 kHz and High Layer asure that on receipt of a 183 Session header, an ACM is sent and the Backward on (00) ation (00) and method available (00) and method available (00) o-end information available (0) at part not used all the way (0)		
ISUP Parameter values		n Medium Requirement indic Compatibility= Facsimile Gro			
SIP Parameter values	183:	ia: <backward a<="" early="" media="" th=""><th></th></backward>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			<ul><li>100 Trying</li></ul>		
	ACM	<b>←</b>	<ul> <li>183 Session Progress</li> </ul>		
	Apply post test routine				

TP number	TP 203 023	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5	- <del>-</del>				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 1 into Backwa	ard call indicator in ACM			
Test Purpose	Ensure that on receipt of a 18	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 1 is mapped into the	Backward call indicator p	resent in the ACM:			
	ISDN User Part indicator					
	<ul> <li>ISDN User Part not used</li> </ul>	all the way (0)				
ISUP Parameter values	ACM: ISDN User Part indicat	or				
	ISDN User Part no	t used all the way				
SIP Parameter values	180:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
_	ProgressDescription>0000001<					
Comments	Progress Information: 'Call is not end-to-end ISDN: further call progress information may					
	be available in-band'					
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM <b>←</b>	<b>←</b>	180 Ringing			
	Apply post test routine					

TP number	TP_203_024	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 2 in 180 into E	Backward call indicator in ACM			
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 2 is mapped into the Backward call indicator present in the ACM:					
	ISDN User Part indicator	Backward can maleator p	resent in the Acivi.			
	ISDN User Part used a	Il the way (1)				
	ISDN access indicator	iii tilo way (1)				
	Terminating access no	n-ISDN (0)				
ISUP Parameter values	ACM: ISDN User Part indicat	( )				
	ISDN User Part used all the way					
	ISDN access indicator					
	Terminating access non-ISDN					
SIP Parameter values	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescriptio					
Comments	Progress Information: 'Destination address is non-ISDN'					
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
		Apply post test routing	ne			

TD	TD 000 005	D. C.	700054			
TP number	TP_203_025	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 7 in 180 into Backward call indicator in ACM					
Test Purpose	Ensure that on receipt of a 180 Ringing 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 all the way (1) ISDN access indicator  Terminating access ISDN (1) Interworking indicator					
	<ul> <li>no interwo</li> </ul>	rking encountered (0)				
ISUP Parameter values	ACM: ISDN User Part indicator ISDN User Part used all the way ISDN access indicator Terminating access ISDN Interworking indicator no interworking encountered					
SIP Parameter values	PSTN ProgressIndic ProgressC					
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	ISUP MGCF Mg					
	IAM ACM	→ ← Annly nos	<ul> <li>→ INVITE</li> <li>← 100 Trying</li> <li>← 180 Ringing</li> <li>t test routine</li> </ul>			

TP number	TP_203_026	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 in 180 into optional Backward call indicator in ACM				
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		TIO TION GVARIABIO		
	In-band information				
		ion or an appropriate patt	ern is now available"		
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> <b>0001000</b> <			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routing	ne		

TP number	TP_203_027	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending of ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 183 into B	ackward call indicator in ACM		
Test Purpose			e PSTN XML ProgressIndicator is		
	present, the value 1 is mapped	into the Backward call inc	dicator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part not used a</li> </ul>	all the way (0)			
ISUP Parameter values	ACM: ISDN User Part indicate	r			
	ISDN User Part not	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		ot end-to-end ISDN: furthe	er call progress information may		
	be available in-band'				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	← 100 Trying				
	ACM <b>←</b>	<b>←</b>	183 Session Progress		
	Apply post test routine				

TP number	TP_203_028	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 2 in 183 into E	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 2 is mappe	d into the Backward call in	dicator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part used a</li> </ul>	II the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access no</li> </ul>	n-ISDN (0)			
ISUP Parameter values	ACM: ISDN User Part indicat	or			
	ISDN User Part us	ed all the way			
	ISDN access indicator				
	Terminating acces	ss non-ISDN			
SIP Parameter values	183: P-Early-Media: sendon	ly			
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescriptio	n> <b>0000010</b> <			
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM <b>←</b>	<b>←</b>	183 Session Progress		
		Apply post test routing	•		

TP number	TP 203 029	Reference	7.2.3.2.5.1			
TSS reference	11 11 11					
		ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9					
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 all the way (1) ISDN access indicator  Terminating access ISDN (1)					
	Interworking indicator	300 102.1 (1)				
	9	encountered (0)				
ISUP Parameter values  SIP Parameter values	no interworking encountered (0)  ACM: ISDN User Part indicator     ISDN user Part used all the way     ISDN access indicator     Terminating access non-ISDN     Interworking indicator     no interworking encountered  183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN     ProgressIndicator					
	ProgressOctet4 ProgressDescription>0000111<					
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	ISUP	MGCF	Mg			
	IAM ACM	→ ← Apply post too	→ INVITE  ← 100 Trying  ← 183 Session Progress			
		Apply post tes	t routine			

TP number	TP_203_030	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 183 into B	ackward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is				
	present, the value 8 is mapped	I into the Optional backwa	rd call indicator present in the		
	ACM:				
	Optional backward call indi				
	In-band information indi	cator			
		n or an appropriate pattern	is now available		
ISUP Parameter values	<b>ACM:</b> Optional backward call				
	In-band information				
		ion or an appropriate patte	ern is now available"		
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 'In-band information or an appropriate pattern is now available'				
Message flows	ISUP MGCF Mg				
	IAM →		INVITE		
		<b>←</b>	100 Trying		
	ACM <b>←</b>	<b>←</b>	183 Session Progress		
		Apply post test routing	e		

TP number	TP 203 031	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_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 the	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	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 i	nformation or an appropri	ate pattern is now available'		
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	← 100 Trying				
	ACM ←	<b>←</b>	183 Session Progress		
	Apply post test routine				

TP number	TP_203_032	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_o	f_ACM/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Media head	der in 181 into Optional back	ward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded and the P-Early-Media authorizing backward early media is mapped into the 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				
	in-band information or an appropriate pattern is now available"				
SIP Parameter values	181: P-Early-Media: sendonly				
Comments	Progress Information 'In-band in	nformation or an appropriate	e pattern is now available'		
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	← 100 Trying				
	ACM ←	<b>←</b> 18	31 Call is Being Forwarded		
	Apply post test routine				

TP number	TP_203_033	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 1 in 180 into t	he 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 Parameter containing the Progress				
	Indicator value 1 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Descripti</li> </ul>	on='0000001'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000001'			
SIP Parameter values	180:				
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments		not end-to-end ISDN: furth	er call progress information may		
	be available in-band'				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routing	ne		

TP number	TP_203_034	Reference	7.2.3.2.5.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into the	e Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,			
	the value 2 is mapped into the	Access Transport Paramet	er containing the Progress	
	Indicator value 2 in the ACM:			
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Descriptions</li> </ul>	='000010'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descri	ption='0000010'		
SIP Parameter values	180:			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription			
Comments	Progress Information: 'Destina'	tion address is non-ISDN'		
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	NVITE	
		<b>←</b>	100 Trying	
	ACM ←	<b>←</b>	180 Ringing	
		Apply post test routine	)	

TP number	TP_203_035	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5	•			
Test Purpose name	PSTN XML Progress	sIndicator 7 in 180 is not mapp	ed into the Access Transport Parameter		
Test Purpose	Ensure that on recei	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 7 is not mapped into the Access Transport Parameter in the ACM			
ISUP Parameter values	ACM: No Access Tr	ansport Parameter present			
SIP Parameter values	180: xml version="1.0" PSTN ProgressIndicato ProgressOcte ProgressI</th <th>r</th> <th></th>	r			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM ACM	<del>→</del> ←	<ul> <li>→ INVITE</li> <li>← 100 Trying</li> <li>← 180 Ringing</li> </ul>		
	Apply post test routine				

TP number	TP_203_036	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 in 180 into the Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 8 is mapped into the	Access Transport Parame	eter containing the Progress		
	Indicator value 8 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description=</li> </ul>	='0001000'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri	otion='0001000'			
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0001000<			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
	← 100 Trying				
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routing	e		

TP number	TP_203_037	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 1 in 183 into the Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 183 Session Progress and the P-Early-Media header and PSTN				
	XML ProgressIndicator is present, the value 1 is mapped into the Access Transport				
	Parameter containing the Prog	ress Indicator value 1 in th	e ACM:		
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Descriptions</li> </ul>	='000001'			
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				
Comments		ot end-to-end ISDN: furthe	er call progress information may		
	be available in-band'				
Message flows	ISUP	MGCF	Mg		
	IAM →		INVITE		
		<b>←</b>	100 Trying		
	ACM <b>←</b>	<b>←</b>	183 Session Progress		
		Apply post test routin	e		

TP number	TP_203_038	Reference	7.2.3.2.5.4			
TSS reference	ISUP-SIP/Basic call/Sending_	of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/	/9				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 2 in 183 into th	e Access Transport Parameter			
Test Purpose	Ensure that on receipt of a 183	Session Progress and the	e P-Early-Media header and PSTN			
	XML ProgressIndicator is pres					
	Parameter containing the Prog	gress Indicator value 2 in th	ne ACM:			
	Access Transport Parameter					
	Progress Indicator					
	<ul> <li>Progress Description</li> </ul>	n='0000010'				
ISUP Parameter values	ACM: Access Transport					
	Progress Indicator					
	Progress Descri					
SIP Parameter values	183: P-Early-Media: sendon					
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
_	ProgressDescription>0000010<					
Comments	Progress Information: 'Destination address is non-ISDN'					
Message flows	ISUP	MGCF	Mg			
	IAM →	→	INVITE			
	← 100 Trying					
	ACM ←	<b>←</b>	183 Session Progress			
		Apply post test routin	e			

TP number	TP_203_039	Reference	7.2.3.2.5.4			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9				
Test Purpose name	PSTN XML ProgressIndicator 7	in 183 is not mapped into	the Access Transport Parameter			
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is present, the value 7 is not mapped into the Access Transport Parameter in the ACM					
ISUP Parameter values	<b>ACM:</b> No Access Transport Pa	arameter present				
SIP Parameter values	183: P-Early-Media: sendonly					
	xml version="1.0" encoding=</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					
	ProgressOctet4					
	ProgressDescription>0000111<					
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	ISUP MGCF Mg					
	IAM → INVITE					
	← 100 Trying					
	ACM ← 183 Session Progress					
		Apply post test routine	9			

TP number	TP_203_040	Reference	7.2.3.2.5.4				
TSS reference	ISUP-SIP/Basic call/Sending_	of_ACM/	·				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/	/9					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 8 in 183 into t	he Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 183	Session Progress and th	ne P-Early-Media header and PSTN				
	XML ProgressIndicator is pres						
	Parameter containing the Prog	gress Indicator value 8 in t	he ACM:				
	Access Transport Parameter						
	Progress Indicator						
	<ul> <li>Progress Description</li> </ul>	='0001000'					
ISUP Parameter values	ACM: Access Transport						
	Progress Indicator						
	Progress Description='0001000'						
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	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
		← 100 Trying					
	ACM ←	<b>←</b>	183 Session Progress				
		Apply post test routing					

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

TP number	TP_204_001		Reference		7.2.3.2.6	3
TSS reference	ISUP-SIP/Basic call	/Sending	_of_CPG/			
Selection criteria						
Test Purpose name	A CPG is sent when	a 180 is	received and a AC	M was	sent before	
Test Purpose	Ensure that on recei	pt of a 18	Ringing a CPG	message	e is sent when a	an ACM was sent
	before					
ISUP Parameter values	ACM: BCi Called pa					
	CPG: Event indication=ALERTING					
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF			Mg
	IAM	<b>→</b>	Ti/w1 started			
	ACM	<b>←</b>	Ti/w1 expired	<b>→</b>	INVITE	
				<b>←</b>	100 Trying	
	CPG	<b>←</b>		←	180 Ringing	
		Apply post test routine				

TP number	TP_204_002	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Send	ding_of_CPG/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	181 received, CPG is ser	nt			
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded a CPG is sent. The Event information parameter in the CPG is set to 'progress'				
ISUP Parameter values	CPG: Event indication=progress				
SIP Parameter values	181: P-Early-Media: se	endonly			
Comments					
Message flows	ISUP	MGCF	Mg		
_	IAM	<b>→</b> →	INVITE		
	ACM	<b>+ +</b>	180 Ringing		
	CPG	<b>← ←</b>	181 Call is Being Forwarded		
	early media early media				
	Apply post test routine				

TP number	TP_204_003	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_	of_CPG/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is not authorized	if no P-Early-Media header is I	present in the 180		
Test Purpose	Ensure that on receipt of a 180 Ringing a 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 head	ler present			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	Ti/w1 started	-		
	ACM ← CPG ←	← 180	/ITE D Ringing		
	ringing tone Apply post test routine				

TP number	TP_204_004	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Se	ending_of_CPG/	·			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is not authorized if P-Early-Media header does not authorize early media in the 180					
Test Purpose	Ensure that on receipt of a 180 Ringing a 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:	inactive				
Comments						
Message flows	ISUP IAM	MGCF → Ti/w1 started	Mg			
	ACM	Ti/w1 expired	→ INVITE			
	CPG rinc	<b>←</b> uing tone	← 180 Ringing			
	Apply post test routine					

TP number	TP_204_005	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sen	ding_of_CPG/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is authorized	d if P-Early-Media header auth	orize early media in the 180		
Test Purpose	Ensure that on receipt of a 180 Ringing a CPG is sent. If the 180 Ringing 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	180: P-Early-Media: se	endonly			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	→ Ti/w1 started			
	ACM	← Ti/w1 expired →	INVITE		
	CPG	<b>+ +</b>	180 Ringing		
	early media early media				
	Apply post test routine				

TP number	TP_204_006		Reference		7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Ser	nding_	of_CPG/				
Selection criteria	PICS 6.2.1/14						
Test Purpose name		The SUT has the knowledge that the call is transited to a PSTN network, the awaiting answer indication is not generated					
Test Purpose		Ensure that the SUT does not generate the awaiting answer indication if it has the local knowledge that the call is transited to a PSTN network and the early media is not authorized					
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF		Mg		
	IAM	<b>→</b>	Ti/w1 started		-		
	АСМ	<b>←</b>	Ti/w1 expired	<b>→</b>	INVITE 100 Trying		
	CPG early media	<b>←</b>		<b>←</b>	180 Ringing early media		
		Apply post test routine					

TP number	TP_204_007	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Ser	nding_of_CPG/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is authorize	ed if P-Early-Media header aut	horize early media in the 183		
Test Purpose			PG is sent. If the 183 Session		
	Progress contains a P-E	arly-Media header authorizing	g early media, the SUT terminates		
	sending of awaiting ans	wer indication and connects th	rough the early media in backward		
	direction				
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: s	endonly			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b> →	NVITE		
	ACM	<b>+ +</b>	180 Ringing		
	CPG	<b>+ +</b>	5 5		
	early media early media				
	Apply post test routine				

TP number	TP_204_008	Reference		7.2.3.2.6	
TSS reference	ISUP-SIP/Basic call/Se	nding_of_CPG/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is authorize	ed if P-Early-Media header	authori	ze early media in the 181	
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded a 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: s	sendonly			
Comments					
Message flows	ISUP	MGCF		Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	← ′	180 Ringing	
	CPG	<b>←</b>	← ′	181 Call is Being Forwarded	
	early media early media				
	Apply post test routine				

TP number	TP_20	04_009	Reference	7.2.3.2.6		
TSS reference	ISUP-	SIP/Basic call/Sending_o	f_CPG/			
Selection criteria	PICS	6.2.1/9				
Test Purpose name		SUT change the authorizatived in 180	tion of early media as inc	dicated in the P-Early-Media		
Test Purpose	throug	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: 180:	P-Early-Media: inactive P-Early-Media: sendonly	<b>V</b>			
Comments		,				
Message flows	IAM ACM CPG	ISUP	MGCF  ←  Apply post test routi	Mg INVITE 183 Session Progress 180 Ringing early media ne		

TP number	TP_204_010	) R	eference	7.2.3.2.6	
TSS reference	ISUP-SIP/Ba	asic call/Sending_of_	CPG/		
Selection criteria	PICS 6.2.1/9	)			
Test Purpose name	The SUT chareceived in 1	•	n of early media as inc	dicated 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		rly-Media: sendonly rly-Media: inactive			
Comments		•			
Message flows	IAM ACM CPG	→ ← arly media ← ringing tone	MGCF  → ← Apply post test routi	Mg INVITE 183 Session Progress early media 180 Ringing	
			Appry post test routi	110	

TP number	TP 204 011	Reference	7.2.3.2.6.1				
TSS reference		ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 6.2.1/5	<u> </u>					
Test Purpose name		(ML ProgressIndicator 1 in	183 into ATP in the CPG				
Test Purpose			ssIndicator value 1 in a 183 Session				
rest ruipose							
			port Parameter is present containing a				
	Progress Indicator #						
ISUP Parameter values	CPG: Access Tran						
	Progress	Indicator					
	Progr	ress Description='0000001'					
SIP Parameter values	183:	·					
	xml version="1.0"</th <th>" encoding="utf-8"?&gt;</th> <th></th>	" encoding="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
Comments	riogiess	ProgressDescription>0000001<					
	IOUD	МООГ	NA				
Message flows	ISUP	MGCF	Mg				
	IAM	<b>→</b>	→ INVITE				
	ACM	<b>←</b>	← 180 Ringing				
	CPG	<b>←</b>	← 183 Session Progress				
		Apply post t	est routine				

TP number	TP_204_012	Reference	7.2.3.2.6.1			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 183 into ATP i	n the CPG			
Test Purpose	Ensure that on receipt of a PST					
	Progress, a CPG is sent and a	n Access Transport Paramete	r is present containing a			
	Progress Indicator #2					
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
	Progress Descrip	otion='0000010'				
SIP Parameter values	183:	183:				
	xml version="1.0" encoding=</th <th colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>000010<				
Comments						
Message flows	ISUP MGCF Mg					
	IAM →	→ INV	ITE			
	ACM ←	<b>←</b> 180	Ringing			
	CPG ←	<b>←</b> 183	Session Progress			
		Apply post test routine	-			

TP number	TP_204_013	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 4 in 183 into	ATP in the CPG			
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicate	or value 4 in a 183 Session			
	Progress, a CPG is sent and a	n Access Transport Para	meter is present containing a			
	Progress Indicator #4					
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
	Progress Descri	ption='0000100'				
SIP Parameter values	180:					
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	1>0000001<				
	or D. D. H. H. DODGE					
	ProgressDescription>0000010<					
	183: P-Early-Media: sendonly					
	<pre><?xml version="1.0" encoding= PSTN</pre></pre>	="utf-8"?>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000100<					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	CPG ←	<b>←</b>	183 Session Progress			
		Apply post test routi	ne			

TP number	TP_204_014	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/	9			
Test Purpose name	No mapping of PSTN XML Pro	gressIndicator 7 in 183 in	to ATP in the CPG		
Test Purpose	Ensure that on receipt of a PS				
	Progress, a CPG is sent and a	n Access Transport Para	meter is present containing a		
	Progress Indicator #4				
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000100'			
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	1>0000001<			
	or				
	ProgressDescription>0000010<				
	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
_	ProgressDescription>0000111<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	+	180 Ringing		
	CPG ←	<b>+</b>	183 Session Progress		
		Apply post test routing	ne		

TP number	TP_204_015	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 183 into Eve	ent information in the CPG			
Test Purpose	Ensure that on receipt of a PST					
	Progress, a CPG is sent and E	vent information parameter	is set to 'In-band information or			
	appropriate pattern is now avai	lable'				
ISUP Parameter values	<b>CPG:</b> Event information= In-ba	and information or appropria	ate pattern is now available			
SIP Parameter values	183:	183:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>0001000<				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b> II	NVITE			
	ACM ←	<b>←</b> 1	80 Ringing			
	CPG ←	<b>←</b> 1	83 Session Progress			
		Apply post test routine	-			

TP number	TP_204_017	Reference	7.2.3.2.6.1		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_CPG/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 180 into ATP in	the CPG		
Test Purpose	Ensure that on receipt of a PST	N XML ProgressIndicator valu	e 1 in a 180 Ringing, a CPG		
	is sent and an Access Transpo	rt Parameter is present contain	ing a Progress Indicator #1		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000001'			
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>"utf-8"?&gt;</th> <th></th>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → 7	Γi/w1 started			
	ACM ← 1	Fi/w1 expired → INVI	TE		
	CPG ←	<b>←</b> 180	Ringing		
		Apply post test routine			

TP number	TP_204_018	Reference	7.2.3.2.6.1				
TSS reference	ISUP-SIP/Basic call/Sending_	of_CPG/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into ATP i	in the CPG				
Test Purpose	Ensure that on receipt of a PS						
ISUP Parameter values	CPG: Access Transport Progress Indicator	•					
SIP Parameter values	180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<						
Comments							
Message flows	ISUP IAM →	MGCF Ti/w1 started	Mg				
	ACM ← CPG	· · · · · · · · · · · · · · · · · · ·	ITE Ringing				

TP number	TP_204_019	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML P	ProgressIndicator 4 in 180	into ATP in the CPG			
Test Purpose			licator value 4 in a 180 Ringing a CPG			
	is sent and an Access Tra	ansport Parameter is pres	ent containing a Progress Indicator #4			
ISUP Parameter values	CPG: Access Transport					
	Progress Indic					
		Description='0000100'				
SIP Parameter values	183:					
	xml version="1.0" enco</th <th>oding="utf-8"?&gt;</th> <th></th>	oding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDesc	ription> <b>0000001</b> <				
	or					
	ProgressDescription>0000010<					
	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4	ription> <b>0000100</b> <				
Comments	FloglessDesc	iiption>0000100<				
Message flows	ISUP	MGCF	Mq			
Wessage nows		→	→ INVITE			
	IAW	7	7 INVIIL			
	ACM	<b>←</b>	← 183 Session Progress			
	=	<del>-</del>				
	CFG		← 180 Ringing			
		Apply post test i	outine			

TP number	TP_204_020		Reference		7.2.3.2.6		
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 6.2.1/5	<u> </u>	_				
Test Purpose name	No mapping of PST	ΓN XML Prog	ressIndicator 7 i	n 180 ir	nto ATP in the CPG		
Test Purpose	Ensure that on rece	eipt of a PST	N XML Progress	Indicato	or value 7 in a 180 Ringing, a CPG		
	is sent and an Acce	ess Transpor	t Parameter is pr	esent c	containing a Progress Indicator #4		
ISUP Parameter values	CPG: Access Tran						
	Progress	s Indicator					
	Prog	ress Descrip	tion='0000100'				
SIP Parameter values	183:						
	xml version="1.0</th <th>" encoding='</th> <th>'utf-8"?&gt;</th> <th></th> <th></th>	" encoding='	'utf-8"?>				
	PSTN						
	ProgressIndicat						
	ProgressOc						
	•	sDescription:	>0000001<				
	or						
	Progress	sDescription:	>0000010<				
	400						
		180:					
		<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN	·or					
	ProgressIndicat						
	ProgressOc	cet4 sDescription:	.0000111				
Comments	i logies	sDescription,	>0000111<				
Message flows	ISUP MGCF Ma						
wiessage nows	9						
	IAM	7		7	INVITE		
	ACM	_		<b>←</b>	192 Cassian Progress		
	CPG	<del>+</del>		Ξ	183 Session Progress		
CPG ← 180 Ringing Apply post test routine							
			Apply post tes	si routi	ile .		

TP number	TP_204_021	Reference	7.2.3.2.6				
TSS reference	ISUP-SIP/Basic call/Sending_o	of_CPG/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 180 into Ever	nt information in the CPG				
Test Purpose		Ensure that on receipt of a PSTN XML ProgressIndicator value 8 in a 180 Ringing, a CPG is sent and Event information parameter is set to 'In-band information or appropriate pattern is now available'					
ISUP Parameter values	CPG: Event information= In-b	and information or appropriat	e pattern is now available				
SIP Parameter values	180:  PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000<						
Comments							
Message flows		MGCF Ti/w1 started	ISUP				
	ACM ← Ti/w1 expired → INVITE  CPG ← 180 Ringing						
		Apply post test routine					

TP number	TP_204_023	Reference	7.2.3.2.7				
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/					
Selection criteria	PICS 6.2.1/9						
Test Purpose name	Mapping of P-Early-Media head	der into Event information para	meter in CPG				
Test Purpose	authorizing early media, a CPG	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present authorizing early media, a CPG is sent. The Event information parameter is set to 'In-band information or appropriate pattern is now available'					
ISUP Parameter values	CPG: Event information= In-ba	and information or appropriate	pattern is now available				
SIP Parameter values	183: P-Early-Media: sendonly	у					
Comments							
Message flows	ISUP IAM →	MGCF Fi/w1 started	Mg				
	ACM ← Ti/w1 expired → INVITE  CPG ← 183 Session Progress  Apply post test routine						

TP number	TP_204_024	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	NOT PICS 6.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG 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 180 Ringing response, a 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	ISUP	MGCF	Mg	
	IAM =	Ti/w1 started		
	ACM •	<ul> <li>Ti/w1 expired →</li> </ul>	INVITE	
	CPG €	· · · · · ·	180 Ringing	
	Apply post test routine			

TP number	TP 204 025	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 180 Ringing response, an 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 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				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	Ti/w1 started		
	ACM ← CPG ←	<b>←</b>	NVITE 180 Ringing	
	Apply post test routine			

TP number	TP_204_026	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 180 Ringing response, an 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)  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	Called party 3	status indicator – no indica	ation	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	→ Ti/w1 started	ū	
	ACM CPG	← Ti/w1 expired ←	→ INVITE ← 180 Ringing	
	Apply post test routine			

TP number	TP_204_027	Reference	7.2.3.2.7.4
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/		
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 Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 180 Ringing response, a 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 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	- Canoa pa	inty o otatao maloator = no maloa	3.011
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	→ Ti/w1 started	
	ACM	← Ti/w1 expired	→ INVITE
	CPG	<b>←</b>	← 180 Ringing
	Apply post test routine		

## 6.1.2.5 Sending of the Answer Message (ANM)

TP number	TP_205_001	Reference	7.2.3.2.8	
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Sending_of_ANM/		
Selection criteria				
Test Purpose name	Sending of ANM who	Sending of ANM when 200 OK INVITE was received		
Test Purpose		Ensure that upon receipt of the first 200 OK (INVITE), if the Address Complete Message		
	(ACM) has already b	(ACM) has already been sent, the SUT sends the Answer Message (ANM)		
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
	ACM	<b>←</b>	← 180 Ringing	
	ANM	<b>←</b>	€ 200 OK (INVITE)	
			→ ACK	
	Apply post test routine			

TP number	TP_205_002	Reference	7.2.3.2.8
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/		
Selection criteria	NOT PICS 6.2.1/18		
Test Purpose name	200 OK received, coding of Backward call indicator in ANM 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 OK INVITE final response, an 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)		
ISUP Parameter values	Echo control device indicator = Incoming echo control device included (1)      Topograpio in Madium Requirement indicator appeals at 2.4 kHz.		
150P 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	183: P-Early-Media: sendonly		
Comments	•	•	
Message flows	ISUP	MGCF	Mg
	IAM →	Ti/w1 started	
	ACM ←	Ti/w1 expired → ←	INVITE 183 Session Progress
	ANM <b>←</b>	← → Apply post test routi	200 OK (INVITE) ACK ne

TP number	TP_205_003	Reference	7.2.3.2.8		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
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 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, an 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: sendonly				
Comments		•			
Message flows	ISUP IAM →	MGCF Ti/w1 started	Mg		
	ACM ←	Ti/w1 expired → ←	INVITE 183 Session Progress		
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK		
		Apply post test routi	ne		

IAM with Transmission Ensure that on receipt Backward call indicato	S 6.2.1/18 ng of Backward call indicator Medium Requirement indica of a 200 OK INVITE final res				
200 OK received, codi IAM with Transmission Ensure that on receipt Backward call indicato	ng of Backward call indicator Medium Requirement indica of a 200 OK INVITE final res	ator=64 kBit/s unrestricted received.			
IAM with Transmission Ensure that on receipt Backward call indicato	Medium Requirement indication of a 200 OK INVITE final res	ator=64 kBit/s unrestricted received.			
Ensure that on receipt Backward call indicato	of a 200 OK INVITE final res				
IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 200 OK INVITE final response, an 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)  ISDN access indicator = terminating access ISDN (1)					
IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted ACM: Backward call indicator					
•	-				
ISUP IAM	MGCF → Ti/w1 started	Mg			
ACM ← Ti/w1 expired → INVITE ← 183 Session Progress					
ANM	← Apply post test r	← 200 OK (INVITE) → ACK			
	Called party's state Called party's cate End-to-end metho Interworking indica End-to-end inform ISDN user part/BI ISDN access indica Echo control device IAM: Transmission MACM: Backward call in Called party  183: P-Early-Media:  ISUP IAM  ACM	Called party's status indicator = no indication ((     Called party's category indicator = no indicatior     End-to-end method indicator = no end-to-end no interworking indicator = no interworking enco     End-to-end information indicator = no end-to-end information indicator = no end-to-end     ISDN user part/BICC indicator = Incoming echo     ISDN access indicator = terminating access I indicator = Incoming echo     IAM: Transmission Medium Requirement indicator ACM: Backward call indicator — Called party's status indicator = no indicator =			

TP number	TP_205_005	Reference	7.2.3.2.8		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/9				
Test Purpose name	200 OK received, coding of Backward call indicator in ANM HLC "Facsimile Group 2/3"				
Test Purpose	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, an 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)				
ISUP Parameter values	Echo control device indicator = Incoming echo control device not included (0)  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	ISUP IAM →	MGCF Ti/w1 started	Mg		
	ACM ←	Ti/w1 expired → ←	INVITE 183 Session Progress		
	ANM	<b>→</b>	200 OK (INVITE) ACK		
		Apply post test routing	ne		

	<b>——</b>	To .	I			
TP number	TP_205_006	Reference	7.2.3.2.9.2			
TSS reference	ISUP-SIP/Basic call/Sending_	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 1 in 200 OK int	to ATP in the ANM			
Test Purpose			value 1 in a 200 OK INVITE, an			
	ANM is sent and an Access Tr	ansport Parameter is prese	ent containing a Progress			
	Indicator #1					
ISUP Parameter values	ANM: Access Transport					
	Progress Indicator					
	Progress Descri	ption='0000001'				
SIP Parameter values	200 OK:					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	← 100 Trying					
	ACM ← 180 Ringing					
	Too ranging					
	ANM ← 200 OK (INVITE)					
	ACK					
		Apply post test routin				

TP number	TP_205_007	Refere	nce	7.2.3.2.9.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN >	KML ProgressIndica	ntor 2 in 200 OK in	nto ATP in the ANM	
Test Purpose		•	•	r value 2 in a 200 OK INVITE, an sent containing a Progress	
ISUP Parameter values	J	s Indicator			
	Prog	ress Description='0	000010'		
SIP Parameter values	200 OK:  PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<				
Comments	1 109.00				
Message flows	ISUP IAM ACM ANM	<b>→</b> ← ←	GCF	Mg INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK	
		Appl	y post test routir	ne	

TP number	TP_205_008	Reference		7.2.3.2.9.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name		ProgressIndicator 4 in 200			
Test Purpose				ue 4 in a 200 OK INVITE, an	
	ANM is sent and an Access Transport Parameter is present containing a Progress Indicator #4				
ISUP Parameter values	ANM: Access Transport	·			
loor rarameter values	Progress India				
		Description='0000100'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN	3			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000100<				
Comments					
Message flows	ISUP	MGCF		Mg	
	IAM	<b>→</b>	→ INV	ITE	
				Trying	
	ACM	<b>←</b>	<b>←</b> 180	Ringing	
	ANM	<b>←</b>	<b>←</b> 200	OK (INVITE)	
			→ ACK	· ·	
		Apply post test	routine		

TP number	TP_205_009	Referer	ice	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN 2	XML ProgressIndicat	or 5 in 200 OK i	into ATP in the ANM		
Test Purpose		Ensure that on receipt of a PSTN XML ProgressIndicator value 5 in a 200 OK INVITE, an ANM is sent and an Access Transport Parameter is present containing a Progress Indicator #5				
ISUP Parameter values	IAM: USI=speech or 3,1 kHz audio, USI prime=unrestricted digital info with T/A,					
SIP Parameter values	200 OK:  PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101<					
Comments						
Message flows	ISUP IAM ACM ANM	<b>→ ← ←</b>	÷ + + + + + + + + + + + + + + + + + + +	Mg INVITE 100 Trying 180 Ringing  200 OK (INVITE) ACK		
		Appry	post test rout	IIIC		

TP number	TP_205_010	R	eference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5				
Test Purpose name	No mapping of PST	N XML Progr	essIndicator 7 in 20	00 OK into ATP in the ANM		
Test Purpose	Ensure that on rece ANM is sent and no Indicator #7. The Ba ISDN User Part ISDN User I	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, an ANM is sent and <b>no</b> Access Transport Parameter is present containing a Progress Indicator #7. The Backward call indicator is set to the following values:  ISDN User Part indicator  ISDN User Part used all the way  ISDN access indicator				
	Interworking ind					
			tered			
ISUP Parameter values  SIP Parameter values	no interworking encountered  ANM: Access Transport not present Backward call indicator ISDN User Part indicator ISDN User Part used all the way ISDN access indicator Terminating access ISDN Interworking indicator no interworking encountered  200 OK: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4					
Comments	Progress	ProgressDescription>0000111<				
Message flows	ISUP		MGCF	Mg		
INICOSAYC IIUWS	IAM	<b>→</b>		→ INVITE		
	IZIVI	•		← 100 Trying		
	ACM	← 180 Ringing				
	ANM	<b>←</b>		<ul><li>← 200 OK (INVITE)</li><li>→ ACK</li></ul>		
	Apply post test routine					

TP number	TP_205_011	Ref	erence	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN	XML HighLayerC	Compatibility in	200 OK into ATP in ANM		
Test Purpose				STN XML HighLayerCompatibility		
				ransport Parameter is present		
			y IE and the va	ue is set to the value HLC_VA as		
	indicated in table 6					
ISUP Parameter values	ANM: Access Trai	•				
		er compatibility	_+: :_ +:f:+:	on 111.0 VA		
SIP Parameter values	200 OK:	layer characteris	sucs identificati	OII = HLC_VA		
SIF Farameter values	PSTN XML MIME I	hody				
	xml version="1.0</th <th></th> <th>8"2&gt;</th> <th></th> <th></th>		8"2>			
	PSTN	cricoding att	0 :>			
	HighLayerCom	patibility				
	HLÓctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_VA</b> <					
Comments	ICUD		МОСЕ	Ma		
Message flows	ISUP IAM	<b>→</b>	MGCF	Mg → INVITE		
	IAW	7		=		
	A C N A	_				
	ACIVI	ACM ← 180 Ringing				
	ANM	<b>←</b>		← 200 OK (INVITE)		
	7 11 11 11	•		→ ACK		
		A	pply post test	2 /1011		
L	1		, , ,			

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	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Beare	rCapability in 200 OK into	ATP in ANM		
Test Purpose	Ensure that on receipt of 200	OK INVITE and a PSTN X	ML BearerCapability element is		
			eter is present containing a Bearer		
	Capability IE and the value is set to the value ITC_value as indicated in table 6.1.2.5-1				
ISUP Parameter values	IAM: USI=speech or 3,1 kH				
		ed, TMR prime = speech o	r 3,1 kHz audio		
	ANM: Access Transport				
	Bearer Capability				
		nsfer Capability = ITC_val	ue		
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding</pre></pre>	="utf-8"?>			
	PSTN Page Comphility				
	BearerCapability				
	BCoctet3 CodingStandard>00<				
	InformationTransferCapability> ITC value <				
	BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
			0 0		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routing	ne		

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

TP number	TP_205_013	Reference	7.2.3.2.9.3			
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN >	KML BearerCapability into Tra	ansmission medium used parameter			
Test Purpose			apability element in a 200 OK INVITE a			
			nt in the sent ANM message. The value of			
			llue TMU_VA_BC is mapped into the value			
		n Medium Used parameter 11	MU_VA_TMU as described in			
ICUD Devementar valvas	table 6.1.2.5-3	an 2.4 ld la accelia. LICI anima				
ISUP Parameter values	•	•	=unrestricted digital info with T/A,			
	ANM: TMU:	t/s preferred, TMR prime = s	beech or 3,1 kHz audio			
	TMU_VA	A TMII				
SIP Parameter values	200 OK:	11110				
on rarameter values		" encoding="utf-8"?>				
	PSTN	onodang at o .>				
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability> <b>TMU_VA_BC</b> <					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	ACM	<b>←</b>	← 180 Ringing			
	ANM	<b>←</b>	← 200 OK (INVITE)			
		-	→ ACK			
		Apply post te				

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 Connect message (CON)

TP number	TP_206_001	Refer	ence	7.2.3.2.11		
TSS reference	ISUP-SIP/Basic call/	Sending_of_CON	٧/	•		
Selection criteria		-				
Test Purpose name	Sending of CON mes	ssage after 200 (	OK was received			
Test Purpose	Ensure that on receip	pt of a 200 OK IN	IVITE and no ACM	was sent, a CON message is sent		
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	ISUP	ı	MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	CON	<b>←</b>	<b>←</b>	200 OK (INVITE)		
			<b>→</b>	ACK		
		Арр	Apply post test routine			

TP number	TP_206_002	Ref	erence	7.2.3.2.11.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	NOT PICS 6.2.1/1	8			
Test Purpose name	200 OK received,	coding of Backwa	ard call indicator in C	ON 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 OK INVITE final response, a CON 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 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	ISUP		MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	CON	<b>←</b>	+	200 OK (INVITE)	
		_	<b>→</b>	ACK	
		Α	pply post test routi	ne	

TP number	TP 206 003	Reference	7.2.3.2.11.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6					
Test Purpose name			ON 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 CON 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 CON: Backward call indicator Called party's status indicator = no indication					
SIP Parameter values						
Comments						
Message flows	ISUP MGCF Mg					
	IAM → INVITE  ← 100 Trying  CON ← 200 OK (INVITE)  → ACK					
		Apply post test routing	ne			

TP number	TP_206_004	Refe	rence	7.2.3.2.11.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.4/2 AND	PICS 6.2.1/18			
Test Purpose name	200 OK received,	coding of Backwar	d call indicator in A	NM 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, an CON 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)  Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted CON: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values		•			
Comments					
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	CON	<b>←</b>	<b>←</b>	200 OK (INVITE)	
		_	→ .	ACK	
		Ар	ply post test routi	ne	

TD	TD 000 005	Defe		7000444		
TP number	TP_206_005	Refer		7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic call	I/Sending_of_COI	<b>V</b> /			
Selection criteria						
Test Purpose name				ON HLC "Facsimile Group 2/3"		
Test Purpose	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, an CON 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)					
ISUP Parameter values  SIP Parameter values	Echo control device indicator = Incoming echo control device not included (0)  IAM: Transmission Medium Requirement indicator=3,1 kHz     High Layer Compatibility= Facsimile Group 2/3  CON: Backward call indicator     Called party's status indicator = no indication					
Comments						
Message flows	ISUP		MGCF	Ma		
wiessage nows	IAM	, , , , , , , , , , , , , , , , , , , ,				
	CON	<b>→</b> ←	→ ← ←	INVITE 100 Trying 200 OK (INVITE)		
	2 //OK					
		Арр	ly post test routi	iie		

TP number	TP_206_006	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sending_c	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 1 in 200 OK into	ATP in the CON			
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator va	lue 1 in a 200 OK INVITE, a			
	CON is sent and an Access Tra	ansport Parameter is present	containing a Progress			
	Indicator #1					
ISUP Parameter values	CON: Access Transport					
	Progress Indicator					
	Progress Descri	otion='0000001'				
SIP Parameter values	200 OK:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→ IN	VITE			
		<b>←</b> 10	0 Trying			
	CON ←	<b>←</b> 20	0 OK (INVITE)			
		<b>→</b> AC	K			
		Apply post test routine				

TP number	TP_206_007	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sen	ISUP-SIP/Basic call/Sending_of_CON/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML F	ProgressIndicator 2 in 200 C	K into ATP in the CON		
Test Purpose	Ensure that on receipt of	a PSTN XML ProgressIndic	cator value 2 in a 200 OK INVITE, a		
	CON is sent and an Acce	ess Transport Parameter is	present containing a Progress		
	Indicator #2				
ISUP Parameter values	CON: Access Transport				
	Progress India	cator			
	Progress I	Description='0000010'			
SIP Parameter values	200 OK:				
	xml version="1.0" enc</th <th colspan="4"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000010<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
		•	← 100 Trying		
	CON	<b>←</b>	← 200 OK (INVITE)		
			→ ACK		
		Apply post test ro	outine		

TP number	TP_206_008	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sending_	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 4 in 200 OK into	ATP in the CON			
Test Purpose	Ensure that on receipt of a PS					
	CON is sent and an Access Ti	ansport Parameter is preser	t containing a Progress			
	Indicator #4					
ISUP Parameter values	CON: Access Transport					
	Progress Indicator					
	Progress Descr	ption='0000100'				
SIP Parameter values	200 OK:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000100<					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b> IN	IVITE			
		<b>←</b> 10	00 Trying			
	CON ←	← 2	00 OK (INVITE)			
		<b>→</b> A	CK			
		Apply post test routine				

TP number	TP 206 009	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sending	g_of_CON/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Prog					
Test Purpose	Ensure that on receipt of a F	STN XML ProgressIndicate	or value 5 in a 200 OK INVITE, a			
	CON is sent and an Access	Transport Parameter is pre	sent containing a Progress			
	Indicator #5					
ISUP Parameter values	IAM: USI=speech or 3,1 kl	Iz audio, USI prime=unrest	ricted digital info with T/A,			
	TMR=64 kbit/s prefer	red, TMR prime = speech of	or 3,1 kHz audio			
	CON: Access Transport	, 1	,			
	Progress Indicato	r				
		cription='0000101'				
SIP Parameter values	200 OK:					
	xml version="1.0" encodir</th <th>ig="utf-8"?&gt;</th> <th></th>	ig="utf-8"?>				
	PSTN	· ·				
	ProgressIndicator					
	ProgressOctet4					
	3	ProgressDescription>0000101<				
Comments						
Message flows	ISUP MGCF Mg					
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	CON ←	<b>←</b>	200 OK (INVITE)			
	→ ACK					
1	Apply post test routine					

TP number	TP_206_010	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	No mapping of PSTN XM	1L ProgressIndicator 7 in 2	00 OK into ATP in the CON			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, a					
	CON is sent and <b>no</b> Acce	ess Transport Parameter is	s present containing a Progress			
	Indicator #7. The Backward call indicator is set to the following values:					
		ISDN User Part indicator				
	ISDN User Part u					
	ISDN access indicato					
	Terminating acco					
	Interworking indicator					
	no interworking					
ISUP Parameter values	CON: Access Transport not present					
	Backward call ind					
	ISDN User Pa					
		r Part used all the way				
	ISDN access indicator					
	Terminating access non-ISDN					
	Interworking indicator					
	no interworking encountered					
SIP Parameter values	200 OK:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4	-i				
0	ProgressDescription>0000111<					
Comments	LOUD MOOF					
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
		_	← 100 Trying			
	CON	<b>←</b>	← 200 OK (INVITE)			
			→ ACK			
		Apply post test r	outine			

TP number	TP_206_011	Reference	7.2.3.2.11.2	
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_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 CON is sent and a Access Transport Parameter is present containing a High layer compatibility IE and the value is set to the value HLC_VA as indicated in table 6.1.2.5-1			
ISUP Parameter values	CON: Access Tran	•		
		er compatibility layer characteristics identifi	cation = HLC_VA	
SIP Parameter values	PSTN HighLayerCompleted HLOctet3 CodingS Interpret Presenta HLOctet4	0" encoding="utf-8"?>	<	
Comments				
Message flows	ISUP IAM	MGCF →	Mg → INVITE	
	CON	← Apply post t	<ul> <li>← 100 Trying</li> <li>← 200 OK (INVITE)</li> <li>→ ACK</li> </ul>	

TP number	TP_206_012	Ref	erence	7.2.3.2.11.2
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN X	KML BearerCap	ability in 200 OK in	to ATP in CON
Test Purpose				XML BearerCapability element is
		present, a CON is sent and a Access Transport Parameter is present containing a Bearer		
			the value ITC_val	ue as indicated in table 6.1.2.5-1
ISUP Parameter values	CON: Access Tran			
	Bearer C	Capability		
	Inforr	mation Transfer	Capability = ITC_v	ralue
SIP Parameter values	200 OK:	·		
	xml version="1.0"</th <th>" encoding="utf-</th> <th>-8"?&gt;</th> <th></th>	" encoding="utf-	-8"?>	
	PSTN			
	BearerCapability	у		
	BCoctet3			
	CodingS	tandard>00<		
	Informati	InformationTransferCapability> ITC_value <		
	BCoctet4			
	TransferMode>00<			
	Informati	ionTransferRate	>10000<	
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	NVITE
			+	• 100 Trying
	CON	<b>←</b>	+	200 OK (INVITE)
			<del>)</del>	,
		Α	pply post test rou	itine

TD	TD 000 040	Deference	7.0.0.0.44	
TP number	TP_206_013	Reference	7.2.3.2.11	
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/			
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Bearer	Capability into Transmission	medium used parameter	
Test Purpose	Ensure that on receipt of a PS	Ensure that on receipt of a PSTN XML BearerCapability element in a 200 OK INVITE a		
	Transmission Medium Used pa	Transmission Medium Used parameter is present in the sent CON message. The value of		
	the PSTN XML InformationTra	insferCapability value TMU_\	A_BC is mapped into the value	
	of the Transmission Medium L	Jsed parameter TMU_VA_TM	IU as described	
	in table 6.1.2.5-3	•		
ISUP Parameter values	IAM: USI=speech or 3,1 kHz	audio, USI prime=unrestricte	ed digital info with T/A,	
	TMR=64 kbit/s preferre	d, TMR prime = speech or 3,	1 kHz audio	
	CON: TMU:			
	TMU_VA_TMU			
SIP Parameter values	200 OK:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	BearerCapability	BearerCapability		
	BCoctet3			
	CodingStandard>00	CodingStandard>00<		
	InformationTransferCapability> <b>TMU_VA_BC</b> <			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b> IN	VITE	
		<b>←</b> 10	0 Trying	
	CON ←		0 OK (INVITE)	
		→ A(		
	Apply post test routine			
		Apply poor tool routino		

TP number	TP_206_014	Reference	7.2.3.2.11A
TSS reference	ISUP-SIP/Basic call/Sending_	of_CON/	·
Selection criteria	PICS 6.2.1/19		
Test Purpose name	Receipt of a reINVITE request		
Test Purpose	Ensure that on receipt of a reINVITE received from the SIP network containing a Call-Info header, the SUT instruct the MGW to send the associated 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	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE1
	ACM ←	+	180 Ringing
	ANM ←	<b>←</b>	200 OK INVITE
		<b>→</b>	ACK
		<b>←</b>	INVITE
		<b>→</b>	200 OK INVITE2
		<b>←</b>	ACK
	media		
		Apply post test routi	ne

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

TP number	TP_207_001	Reference	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_o	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/		
Selection criteria				
Test Purpose name	Mapping of unsuccessful final	responses to ISUP/BICC	Release messages	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response before an early dialogue is established, a Release message Cause value REL_cause is sent on the ISUP/BICC leg of the connection. The mapping is according the table 6.1.2.7-1. 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	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	REL ←	<b>←</b>	SIP_Response	
	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	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_c	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/		
Selection criteria				
Test Purpose name	Mapping of unsuccessful final	responses to REL after 1	80 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 180 Ringing, 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	<b>REL:</b> Cause = REL_cause			
SIP Parameter values	SIP_Response			
Comments				
Message flows	ISUP IAM →  REL ← RLC →	MGCF	Mg INVITE 100 Trying 180 Ringing SIP_Response ACK	

TP number	TP_207_003	Ref	erence	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria						
Test Purpose name	Mapping of unsucces	ssful final resp	onses to REL after '	181 was received		
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response 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	_cause				
SIP Parameter values	SIP_Response					
Comments						
Message flows	ISUP		MGCF	Mg		
	REL RLC	→ ← →	→ + + +	INVITE 100 Trying 181 Call is Being Forwarded SIP_Response ACK		

TP number	TP_207_004	Reference	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria				
Test Purpose name	Mapping of unsuccessful fir	nal responses to REL after 1	183 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response 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	<b>REL:</b> Cause = REL_cause	e		
SIP Parameter values	SIP_Response			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→	INVITE	
		<b>←</b>	100 Trying	
		<b>←</b>	183 Session Progress	
	REL ←	<b>←</b>	SIP_Response	
	RLC →	<b>→</b>	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)	←4xx/5xx/6xx SIP Message
	REL_cause	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

TD mumb an	TD 207 005	Deference	7.0.0.40		
TP number	TP_207_005	Reference	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/Receipt_c	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria					
Test Purpose name	Mapping of Reason header int	o Cause value of REL			
Test Purpose	Ensure that on receipt of an u	nsuccessful final response	SIP_Response and a Reason		
	header is present set to cause	SIP_cause, this value is	used in the corresponding REL		
	message. The mapping is indi				
	message is set to 'network bey	yond interworking point'			
ISUP Parameter values	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	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	REL ←	<b>←</b>	SIP_Response		
	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	7.2.3.2.12				
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Progrethe REL	essIndicator 1 in an unsucce	ssful final response into ATP in				
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #1						
ISUP Parameter values	REL: Access Transport						
	Progress Indicator						
	Progress Descri	ption='0000001'					
SIP Parameter values	SIP_Response:						
	<pre><?xml version="1.0" encoding="utf-8"?></pre>						
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription	n> <b>0000001</b> <					
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b> II	NVITE				
		<b>←</b> 1	00 Trying				
	REL ←	← 9	SIP_Response				
	RLC →		CK .				

TP number	TP_207_007	F	Reference		7.2.3.2.12				
TSS reference		ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/							
Selection criteria	PICS 6.2.1/5								
Test Purpose name	Mapping of PSTN the REL	Mapping of PSTN XML ProgressIndicator 2 in an unsuccessful final response into ATP in the REL							
Test Purpose	response as indica	Ensure that on receipt of a PSTN XML ProgressIndicator value 2 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #2							
ISUP Parameter values	Progres	REL: Access Transport Progress Indicator Progress Description='0000010'							
SIP Parameter values	SIP_Response: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<								
Comments		•							
Message flows	Mg	<b>→</b>	MGCF	<b>→</b>	ISUP INVITE				
	REL RLC	<b>→</b>		<b>+</b> +	INVITE 100 Trying SIP_Response ACK				

TP number	TP_207_008	Reference	7.2.3.2.12				
TSS reference	ISUP-SIP/Basic call/Receipt of 4xx-5xx-6xx/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Progre the REL	ssIndicator 4 in an unsucce	ssful final response into ATP in				
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #4						
ISUP Parameter values	REL: Access Transport						
	Progress Indicator						
	Progress Descri	otion='0000100'					
SIP Parameter values	SIP_Response:						
	xml version="1.0" encoding="utf-8"?						
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription	>0000100<					
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b> II	NVITE				
		<b>←</b> 1	00 Trying				
	REL ←		SIP_Response				
	RLC →		ACK .				

TP number	TP 207 009	Reference	7.2.3.2.12				
	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/						
TSS reference		DI_4XX-5XX-6XX/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name		essIndicator 5 in an unsucces	ssful final response into ATP in				
	the REL						
Test Purpose			alue 5 in an unsuccessful final				
	response as indicated in table	6.1.2.7-4, a REL is sent and	an Access Transport Parameter				
	is present containing a Progre	ss Indicator #5					
ISUP Parameter values	IAM: USI=speech or 3,1 kHz	audio, USI prime=unrestrict	ed digital info with T/A,				
	TMR=64 kbit/s preferre	ed, TMR prime = speech or 3	,1 kHz audio				
	REL: Access Transport	•					
	Progress Indicator						
		iption='0000101'					
SIP Parameter values	SIP_Response:						
		xml version="1.0" encoding="utf-8"?					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription>0000101<						
Comments							
Message flows	ISUP MGCF Mg						
	IAM →		NVITE				
	17 1171		00 Trying				
	REL ←		, ,				
			IP_Response				
	RLC → 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

TP number	TP_207_010	Reference	7.2.3.2.12					
TSS reference			1.2.0.2.12					
		ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/						
Selection criteria	PICS 6.2.1/5							
Test Purpose name	Mapping of PSTN X	(ML HighLayerCompatibilit	y in an unsuccessful final response into ATP					
Test Purpose		ipt of an unsuccessful final	response and a PSTN XML					
	HighLayerCompatib	oility element is present a F	EL is sent and a Access Transport					
			compatibility IE and the value is set to the					
		ndicated in table 6.1.2.5-1						
ISUP Parameter values	REL: Access Tran	sport						
	High laye	er compatibility						
		layer characteristics identif	ication = HLC_VA					
SIP Parameter values	SIP_Response:	-						
	PSTN XML MIME b	ody						
		encoding="utf-8"?>						
	PSTN	5						
	HighLayerComp	patibility						
	HLOctet3							
	CodingS	CodingStandard>00<						
		ation>100<						
		tionMethod>01<						
	HLOctet4							
	HighLaye	erCharacteristics>HLC_VA	<					
Comments								
Message flows	ISUP	MGCF	Mg					
	IAM	<b>→</b>	→ INVITE					
			← 100 Trying					
	REL	<b>←</b>	← SIP_Response					
	RLC	<b>→</b>	→ ACK					

TP number	TP_207_011	Reference	7.2.3.2.12				
TSS reference	ISUP-SIP/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 ur						
			a Access Transport Parameter is				
		apability 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 Capability						
	i	nsfer 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<	D					
	InformationTransfer	Rate>10000<					
Comments	IOUE	W005					
Message flows	ISUP	MGCF	Mg				
	IAM →	<del>)</del>	INVITE				
		<b>←</b>	100 Trying				
	REL ←	+	SIP_Response				
	RLC →	<b>→</b>	ACK				

TP number	TP_207_012		Reference		7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/	Receipt_of	_4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/20						
Test Purpose name	Play media provided	in an Error	-Info header rec	eived in	an unsuccessful final response	<u> </u>	
Test Purpose	Ensure that the SUT instructs the MGW to play out media associated with an URL present in an Error-Info header received in an unsuccessful final response as indicated in table 6.1.2.7-4						
ISUP Parameter values							
SIP Parameter values	SIP_Response: Erro	r-Info: <me< th=""><th>dia re source UF</th><th>RL&gt;</th><th></th><th></th></me<>	dia re source UF	RL>			
Comments							
Message flows	ISUP		MGCF		Mg		
	IAM	<b>→</b>		<b>→</b>	INVITE		
	← 100 Trying						
	← SIP_Response						
	→ ACK						
	media						
			Apply post te	st routi	ne		

TP number	TP_207_013	Reference	7.2.3.2.12.1, 7.2.3.3						
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/								
Selection criteria	PICS 6.2.3/2								
Test Purpose name	Handling of 404 and 484 respon	nses after sending of INVITE							
Test Purpose	Ensure that on receipt of a 404 Not Found or 484 Address Incomplete responses after sending of INVITE without determining the end of address signalling, timer Ti/w3. After expiry of T i/w3 a REL is sent, the Cause parameter value is set to #28								
ISUP Parameter values	REL: Cause=28	·							
SIP Parameter values									
Comments									
Message flows	ISUP	MGCF	Mg						
		Ti/w2 started	Address Incomplete						
		Ti/w2 started → INV Ti/w3 started ← 484 → ACI	Address Incomplete						
	REL ← ·	Ti/w3 expired							

TP number	TP_207_014	Refe	erence	7.2.3.2.19				
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/						
Selection criteria		•						
Test Purpose name	Handling of 3xx res	ponses after sen	ding of INVITE					
Test Purpose		Ensure that on receipt of a 3xx final responses as indicated in table 6.1.2.7-5, an ISUP REL is sent. The Cause value in the sent REL is set to value 127						
ISUP Parameter values	REL: Cause=127							
SIP Parameter values								
Comments								
Message flows	ISUP		MGCF	Mg				
	IAM	<b>→</b>	<b>→</b>	INVITE				
	REL	<b>←</b>	<b>←</b>	3xx_VA				
	RLC	<b>→</b>	<b>→</b>	ACK				

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		7.2.3.2.17.2		
TSS reference	ISUP-SIP/Ba	sic call/Receipt_of_	_4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/3						
Test Purpose name	580 response to an UPDATE within an early dialog						
Test Purpose	Ensure that on receipt of a 580 Precondition Failure final response after an UPDATE						
					Cause value is set to 127		
ISUP Parameter values				k requir	ed on this circuit or continuity		
		performed on prev					
			inuity check successfu	וג			
CID Deservator values	REL: Cause		an 100mal				
SIP Parameter values	INVITE: Su	pported: preconditi					
	SDP	a=curr:qos local n a=curr:qos remote					
			itory local sendrecv				
		a=des:qos manda a=des:qos none re					
		u=u00.q00 110110 11	omoto condicov				
	183: Require	: 100rel					
	SDP	a=curr:qos local n	one				
		a=curr:qos remote					
		a=des:qos manda	tory local sendrecv				
			tory remote sendrecv				
	a=conf:qos 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						
Comments		a=ues.qus manua	itory remote sendrecv				
Message flows	ISU	<u> </u>	MGCF		Mg		
mossage nows	IAM	<b>→</b>	111.001	<b>→</b>	INVITE		
	17 (17)	-		É	100 Trying		
				È	183 Session Progress		
				<b>→</b>	PRACK		
				÷	200 OK (PRACK)		
	СОТ	<b>→</b>		÷	UPDATE		
	REL	<del>-</del>		<b>←</b>	580 Precondition Failure		
	RLC	<b>→</b>		=			
		_	Apply post test rou	tine			
1	1		F F - 7 F				

# 6.1.2.8 Receipt of a BYE

TP number	TP_208_001	Reference	7.2.3.2.13
TSS reference			1.2.0.2.10
	ISUP-SIP/Basic call/Rece	eipi_0i_6	
Selection criteria			
Test Purpose name	BYE received, REL is ser	nt	
Test Purpose	Ensure that on receipt of	a BYE message and no reas	son header is present, a REL is sent.
	The Cause value of the Rinterworking point'	REL is set to #16, the location	n is set to 'network beyond
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	NVITE
		+	100 Trying
	ACM	<b>+ +</b>	, 0
			0 0
	ANM	<b>+ +</b>	200 OK (INVITE)
		- -	*
		-	7,010
	REL	<b>+ +</b>	BYE
		` •	_ · _
	INLU	7	200 OK (BYE)

TP number	TP_208_002	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Receipt of BYE/				
Selection criteria					
Test Purpose name	BYE received a Reason head	er is present, REL Cause	derived from the Reason cause		
	value				
Test Purpose	Ensure that on receipt of a B	E request and a Reason I	neader is present, a REL is sent.		
	The Cause parameter is derive	red from cause parameter	in the Reason header		
ISUP Parameter values	REL: Cause= <reason cause=""></reason>				
SIP Parameter values	BYE: Reason: cause				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		+	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
	REL ←	<b>←</b>	BYE		
	RLC →	<b>→</b>	200 OK (BYE)		

TP number	TP_208_003	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_BYE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 1 in a BYE	into ATP in the REL		
Test Purpose	Ensure that on receipt of a	PSTN XML ProgressIndic	ator value 1 in a BYE request, a REL		
	is sent and an Access Tran	sport Parameter is presen	t containing a Progress Indicator #1		
ISUP Parameter values	REL: Access Transport				
	Progress Indicat	or			
		scription='0000001'			
SIP Parameter values	BYE:				
	xml version="1.0" encod</th <th>ing="utf-8"?&gt;</th> <th></th>	ing="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	-	INVITE		
		•	100 Trying		
	ACM <b>←</b>	•	180 Ringing		
	ANM €	•	= 200 OK (INVITE)		
		-	ACK		
	REL +	•	BYE		
	RLC +	-	200 OK (BYE)		

TP number	TP_208_004		Reference		7.2.3.2.13	
TSS reference	ISUP-SIP/Basic call/R	eceipt_of_	_BYE/		•	
Selection criteria	PICS 6.2.1/5	•				
Test Purpose name	Mapping of PSTN XMI	_ Progres	sIndicator 2 in a	BYE in	to ATP in the REL	
Test Purpose					or value 2 in a BYE request, a REL containing a Progress Indicator #2	
ISUP Parameter values	REL: Access Transp					
	Progress In					
		s Descrip	tion='0000010'			
SIP Parameter values	BYE:					
	xml version="1.0" e</th <th>ncoding='</th> <th>'utf-8"?&gt;</th> <th></th> <th></th>	ncoding='	'utf-8"?>			
	PSTN					
	ProgressIndicator					
	ProgressOctet <sup>2</sup>					
	ProgressDe	ProgressDescription>0000010<				
Comments						
Message flows	ISUP		MGCF		Mg	
	IAM	<b>→</b>		<b>→</b>	INVITE	
				<b>←</b>	100 Trying	
	ACM	<b>←</b>		<b>←</b>	180 Ringing	
	ANM ← 200 OK (INVITE)					
		→ ACK				
	REL	<b>←</b>		<b>←</b>	BYE	
	RLC	<b>→</b>		<b>→</b>	200 OK (BYE)	

TD	TD 000 005		D-f		7.00040		
TP number	TP_208_005		Reference		7.2.3.2.13		
TSS reference	ISUP-SIP/Basic cal	I/Receipt_of_	_BYE/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN >	KML Progress	sIndicator 4 in a	BYE into	o ATP in the REL		
Test Purpose	Ensure that on rece	eipt of a PSTI	N XML Progress	Indicato	r value 4 in a BYE request, a REL		
	is sent and an Acce	ess Transport	Parameter is p	resent co	ontaining a Progress Indicator #4		
ISUP Parameter values	REL: Access Tran	nsport	-				
	Progress	Indicator					
			ion='0000100'				
SIP Parameter values	BYE:						
	xml version="1.0</th <th>" encodina="</th> <th>utf-8"?&gt;</th> <th></th> <th></th>	" encodina="	utf-8"?>				
	PSTN	3					
	ProgressIndicat	or					
	ProgressOc						
		Description>	-0000100<				
Comments		'					
Message flows	ISUP		MGCF		Mg		
	IAM	→		→	INVITE		
				<b>←</b>	100 Trying		
	ACM	<b>←</b>		<del>-</del>	180 Ringing		
	100 Milying						
	ANM ← 200 OK (INVITE)						
	· ·						
		→ ACK					
	חבו	_		_	DVE		
	REL	<del>(</del>		<del>,</del>	BYE		
	RLC	<b>→</b>		<b>→</b>	200 OK (BYE)		

TP number	TP_208_006	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_BYE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 5 in a BYE int	to ATP in the REL		
Test Purpose			or value 5 in a BYE request, a REL		
			ontaining a Progress Indicator #5		
ISUP Parameter values		kHz audio, USI prime=unrest			
		erred, TMR prime = speech o	r 3,1 kHz audio		
	REL: Access Transport				
	Progress Indicat				
		scription='0000101'			
SIP Parameter values	BYE:				
	xml version="1.0" encod</th <th>ing="utf-8"?&gt;</th> <th></th>	ing="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000101<				
Comments	IOUE	11005			
Message flows	ISUP	MGCF	Mg		
	IAM -	=	INVITE		
		<del>(</del>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		_			
	ANM ←		200 OK (INVITE)		
	→ ACK				
		_			
	REL +		BYE		
	RLC -	→	200 OK (BYE)		

TP number	TP_208_007	Reference		7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Re	eceipt of BYE/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML	HighLaverCompatib	ility in a BYE	into ATP in REL		
Test Purpose				HighLayerCompatibility element i		
				r is present containing a High		
	layer compatibility IE ar	nd the value is set to	the value HL	C_VA as indicated in		
	table 6.1.2.5-1					
ISUP Parameter values	REL: Access Transpo					
	High layer co					
		er characteristics ider	ntification = H	ILC_VA		
SIP Parameter values	BYE:					
	PSTN XML MIME body					
	xml version="1.0" en</th <th>coding="utf-8"?&gt;</th> <th></th> <th></th>	coding="utf-8"?>				
	PSTN					
	HighLayerCompatib	oility				
	HLOctet3					
		CodingStandard>00< Interpretation>100<				
	PresentationMethod>01< HLOctet4					
	HighLayerCharacteristics> <b>HLC_VA</b> <					
Comments	riigriLayeror	iaracteristics/IIEO_	/A\			
Message flows	ISUP	MGCF		Mg		
meesage news	IAM	→	<b>→</b>	INVITE		
	,	•	<del>-</del>	100 Trying		
	ACM ← 180 Ringing					
	Too Kinging					
	ANM ← 200 OK (INVITE)					
	7 11 11 11	•		ACK		
			-	,		
	REL	<b>←</b>	<b>←</b>	BYE		
	RLC	<b>→</b>		200 OK (BYE)		
	1			200 011 (012)		

TP number	TP_208_008	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Receipt_of_BYE/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Bearer	Capability in a BYE into A	TP in REL		
Test Purpose	Ensure that on receipt of a BYI				
			er is present containing a Bearer		
	Capability IE and the value is s	et to the value ITC_value	as indicated in table 6.1.2.5-2		
ISUP Parameter values	REL: Access Transport				
	Bearer Capability				
		sfer Capability = ITC_valu	le		
SIP Parameter values	BYE:	" " 0"0			
	xml version="1.0" encoding=</th <th>="utt-8"?&gt;</th> <th></th>	="utt-8"?>			
	PSTN				
	BearerCapability BCoctet3				
	CodingStandard>00	l-			
	InformationTransferCapability> ITC_value <				
	BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments	2002				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ← 180 Ringing				
	ANM ← 200 OK (INVITE)				
	→ ACK				
	REL ←	<b>←</b>	BYE		
	RLC →	<b>→</b>	200 OK (BYE)		

# 6.1.2.9 Receipt of the Release Message

TP number	TP_209_001	F	Reference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic call	/Receipt_of_	REL/		•	
Selection criteria		•				
Test Purpose name	REL received before	e an early dia	alogue was esta	blished	I, a CANCEL is sent	
Test Purpose	CANCEL request is	Ensure that on receipt of a REL message before an early dialogue 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	REL: Cause value				
SIP Parameter values	CANCEL: Reason:	cause= <cau< td=""><td>se value&gt;</td><td></td><td></td></cau<>	se value>			
Comments						
Message flows	ISUP		MGCF		Mg	
	REL RLC	→ → ←		<b>++++</b>	INVITE 100 Trying CANCEL 200 OK (CANCEL) 487 Request Terminated ACK	

TP number	TP_209_002	Reference	7.2.3.2.14			
TSS reference	ISUP-SIP/Basic call/Rece	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria						
Test Purpose name	REL received after an ear	ly dialogue with 180 was esta	blished, a CANCEL is sent			
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to a 180 Ringing 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	REL: Cause value				
SIP Parameter values	CANCEL: Reason: cause:	= <cause value=""></cause>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM =	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM	<b>+</b>	180 Ringing			
	REL =	<b>→</b>	CANCEL			
	RLC   200 OK (CANCEL)					
		<b>←</b> →	487 Request Terminated ACK			

TP number	TP 209 003	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receipt_	of_REL/			
Selection criteria	·				
Test Purpose name	REL received after an early di	alogue with 181 was estab	olished, a CANCEL is sent		
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to a 181 Call is Being Forwarded 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= <c< th=""><th>ause value&gt;</th><th></th></c<>	ause value>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	181 Being forwarded		
	REL →	<b>→</b>	CANCEL		
	RLC ←	<b>←</b> <b>←</b> <b>→</b>	200 OK (CANCEL) 487 Request Terminated ACK		

TP number	TP 209 004	Reference	7.2.3.2.14			
TSS reference		ISUP-SIP/Basic call/Receipt of REL/				
Selection criteria		<u> </u>				
Test Purpose name						
Test Purpose	REL received after an ea	arly dialogue with 182 was	established, a CANCEL is sent			
ISUP Parameter values	Ensure that on receipt of a 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: caus	se= <cause value=""></cause>				
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	ACM	<b>←</b>	← 182 Queued			
	REL	<b>→</b>	→ CANCEL			
	RLC	<b>←</b>	← 200 OK (CANCEL)			
			<ul><li>← 487 Request Terminated</li><li>→ ACK</li></ul>			

TP number	TP_209_005	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria					
Test Purpose name	REL received after an early dia	alogue with 183 was establi	shed, a CANCEL is sent		
Test Purpose	Ensure that on receipt of a 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= <ca< th=""><th>ause value&gt;</th><th></th></ca<>	ause value>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	NVITE		
		<b>←</b> ·	100 Trying		
	ACM ←	<b>+</b>	183 Session Progress		
	REL →		CANCEL		
	RLC ←		200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP 209 006	Reference	7.2.3.2.14			
TSS reference			7.2.3.2.14			
	ISUP-SIP/Basic call/	Receipt_of_REL/				
Selection criteria						
Test Purpose name	REL received in the	confirmed dialogue a BYE is se	ent			
Test Purpose	Ensure that on receip	ot of a REL message in the cor	nfirmed dialogue, a BYE request is sent			
-			is derived from the Cause value in the			
	received REL	,				
ISUP Parameter values	REL: Cause value					
SIP Parameter values	BYE: Reason: caus	se= <cause value=""></cause>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	ACM	←	← 180 Ringing			
	ACIVI	•	160 Kinging			
	ANM	<b>←</b>	4 200 OK (INIVITE)			
	ANIVI	~	€ 200 OK (INVITE)			
			→ ACK			
	REL	<b>→</b>	→ BYE			
	RLC	<b>←</b>	← 200 OK (BYE)			

TP number	TP_209_007	Reference		7.2.3.2.14
TSS reference	ISUP-SIP/Basic call/Rece	eipt_of_REL/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of REL ATP Pro BYE	gress Indicator #1 into	PSTN XIV	IL ProgressIndicator #1 in the
Test Purpose				aining a Progress Indicator #2 in
			and a PSTN	N XML ProgressIndicator is
	present, the ProgressDes			
ISUP Parameter values	REL: Access Transport			
	Progress India			
		Description='0000001'		
SIP Parameter values	BYE:	" " ( 0 0 0		
	xml version="1.0" enco</th <th>oding="utf-8""?&gt;</th> <th></th> <th></th>	oding="utf-8""?>		
	PSTN Draggeogladicator			
	ProgressIndicator ProgressOctet4			
		ription> <b>0000001</b> <		
Comments	1 10g10002000	inputoriz dodddd 1		
Message flows	ISUP	MGCF		Mg
		<b>→</b>	<b>→</b>	NVITE
			<b>←</b> 1	00 Trying
	ACM	<del>(</del>		80 Ringing
				3 3
	ANM	<del>(</del>	<b>←</b> 2	200 OK (INVITE)
				ACK
	REL	<b>→</b>	<b>→</b> E	BYE
	RLC	<b>←</b>	<b>←</b> 2	200 OK (BYE)

TP number	TP 209 008	Referen	ce	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/R	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL ATP BYE	Progress Indicator	#2 into PSTN X	ML ProgressIndicator #2 in the		
Test Purpose	Ensure that on receipt of a 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 #2					
ISUP Parameter values	REL: Access Transport Progress Indicator Progress Description='0000010'					
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<					
Comments		•				
Message flows	ISUP IAM ACM	MG → ←		Mg INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>		200 OK (INVITE) ACK		
	REL RLC	<b>→</b> ←	=	BYE 200 OK (BYE)		

TP number	TP_209_009	I	Reference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic call/	Receipt_of_	_REL/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL ATF BYE	Mapping of REL ATP Progress Indicator #4 into PSTN XML ProgressIndicator #4 in the BYE				
Test Purpose	the confirmed dialog	Ensure that on receipt of a REL message and a ATP containing a Progress Indicator #4 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #4				
ISUP Parameter values	Progress	REL: Access Transport Progress Indicator Progress Description='0000100'				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<					
Comments						
Message flows	ISUP IAM ACM ANM	<b>→ ←</b>	MGCF	<b>+ + +</b>	Mg INVITE 100 Trying 180 Ringing 200 OK (INVITE)	
	REL RLC	<b>→</b>		→ → ←	ACK BYE 200 OK (BYE)	

TP number	TP_209_010	Refer	ence	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Re	eceipt of REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL ATP F BYE	Progress Indica	tor #5 into PSTN )	KML ProgressIndicator #5 in the		
Test Purpose	Ensure that on receipt of a 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	Progress Inc	REL: Access Transport Progress Indicator Progress Description='0000101'				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101<					
Comments		•				
Message flows	ISUP IAM ACM	→	IGCF → ← ←	Mg INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK		
	REL RLC	<b>→</b> ←	<b>→</b> ←	BYE 200 OK (BYE)		

TP number	TP_209_011	R	eference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic ca	all/Receipt_of_F	REL/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL A the BYE	TP High layer	compatibility in	to PSTN	XML HighLayerCompatibility in	
Test Purpose	IE in the confirmed HighLayerCompat indicated in table 6	Ensure that on receipt of a REL message and an ATP containing a High layer compatibility IE in the confirmed dialogue, a BYE request is sent and a PSTN XML HighLayerCompatibility is present, the HighLayerCharacteristics is set to <b>HLC_VA</b> as indicated in table 6.1.2.1-4				
ISUP Parameter values		insport /er compatibility n layer characte		ation = 1	HLC_VA	
SIP Parameter values	BYE: PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_VA<					
Comments						
Message flows	ISUP IAM ACM	<b>→</b>	MGCF	<b>→</b> <b>←</b>	Mg INVITE 100 Trying 180 Ringing	
	ANM ← 200 OK (INVITE) → ACK					
	REL RLC	<b>→</b>		<b>→</b>	BYE 200 OK (BYE)	

TP number	TP_209_012	Reference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5			
Test Purpose name	Mapping of REL AT	P Low Layer Compatibility in	to PSTN XI	ML LowLayerCompatibilityin the	
Test Purpose	Compatibility IE in the		E request is		
ISUP Parameter values	REL: Access Transport  Low Layer Compatibility  Information Transfer Capability = ITC_value				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN  LowLayerCompatibility  LLoctet3  CodingStandard>00< InformationTransferCapability>ITC_value< LLoctet4  TransferMode>00< InformationTransferRate>10000<				
Comments					
Message flows	Mg IAM	MGCF		ISUP VITE 0 Trying	
	ACM ← 180 Ringing				
	ANM ← 200 OK (INVITE) → ACK				
	REL	<b>→</b>	→ BY	Œ I	
	RLC	<b>←</b>	<b>←</b> 20	0 OK (BYE)	

# 6.1.2.10 Receipt of RSC, GRS or CGB (H/W oriented)

TP number	TP_210_001	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria					
Test Purpose name	Receipt of RSC before an early	dialogue was established			
Test Purpose	Ensure that on receipt of a RSC before an early dialogue is established, a CANCEL request is sent containing a Reason header. The SUT received a 487 Request Terminated and sends an ACK request				
ISUP Parameter values					
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→ IN	VITE		
		<b>←</b> 10	00 Trying		
	RSC →	<b>→</b> C/	ANCEL		
	RLC ←	← 20	00 OK (CANCEL)		
		← 48	37 Request Terminated		
		<b>→</b> A(	CK .		

TP number	TP_210_002	F	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of RSC afte	r an early dia	alogue with 180 was es	tablished		
Test Purpose	provisional response	Ensure that on receipt of a RSC after an early dialogue with receipt of a 180 Ringing provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values						
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	RSC	<b>→</b>	<b>→</b>	CANCEL		
	RLC	<b>←</b>	<b>←</b>	200 OK (CANCEL)		
			<b>←</b> →	487 Request Terminated ACK		

TP number	TP_210_003		Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria		•				
Test Purpose name	Receipt of RSC after	er an early di	alogue with 181 was e	established		
Test Purpose	forwarded provision	Ensure that on receipt of a RSC after an early dialogue with receipt of a 181 Being forwarded provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values						
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP		MGCF	Mg		
_	IAM	<b>→</b>	<b>→</b>	INVITE		
			<del>-</del>	181 Being forwarded		
	RSC	<b>→</b>	<b>→</b>	CANCEL		
	RLC	<b>←</b>	<del>-</del>	200 OK (CANCEL)		
			<b>←</b>	487 Request Terminated ACK		

TP number	TP_210_004	Re	eference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call	SUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria		•				
Test Purpose name	Receipt of RSC after	r an early dial	ogue with 183 was es	stablished		
Test Purpose	Progress provisiona	Ensure that on receipt of a RSC after an early dialogue with receipt of a 183 Session Progress provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values						
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE 183 Session Progress		
	RSC RLC	<b>→</b>	→ ← ← →	CANCEL 200 OK (CANCEL) 487 Request Terminated ACK		

TP number	TP_210_005	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/					
Selection criteria						
Test Purpose name	Receipt of RSC after a confirmed dialogue was established					
Test Purpose	Ensure that on receipt of RSC after a confirmed dialogue with a 200 OK (INVITE) final response was established, a BYE request is sent					
ISUP Parameter values						
SIP Parameter values	BYE: Reason:					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>←</b>	200 OK (INVITE)			
		<b>→</b>	ACK			
	RSC →	<b>→</b>	BYE			
	RLC ←	+	200 OK (BYE)			

TP number	TP_210_006	Re	erence	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/					
Selection criteria						
Test Purpose name	Receipt of GRS before an early dialogue was established					
Test Purpose	Ensure that on receipt of a GRS before an early dialogue is established, a CANCEL request is sent containing a Reason header. The SUT received a 487 Request Terminated and sends an ACK request					
ISUP Parameter values						
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	GRS	<b>→</b>	<b>→</b>	CANCEL		
	GRA	<b>←</b>	<b>←</b>	200 OK (CANCEL)		
			<b>←</b>	487 Request Terminated		
			<b>→</b>	ACK		

TP number	TP_210_007		Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/						
Selection criteria							
Test Purpose name	Receipt of GRS after	Receipt of GRS after an early dialogue with 180 was established					
Test Purpose	Ensure that on receipt of a GRS after an early dialogue with receipt of a 180 Ringing provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request						
ISUP Parameter values							
SIP Parameter values	CANCEL: Reason:	CANCEL: Reason:					
Comments							
Message flows	ISUP		MGCF	Mg			
_	IAM	<b>→</b>	<b>→</b>	INVITE			
	ACM	<b>←</b>	<b>←</b>	180 Ringing			
	GRS	<b>→</b>	<b>→</b>	CANCEL			
	GRA	<b>←</b>	<b>←</b>	200 OK (CANCEL)			
			<b>←</b>	487 Request Terminated			
			<b>→</b>	ACK			

TP number	TP_210_008	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_c	of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of GRS after an early	dialogue with 181 was esta	ablished		
Test Purpose	Ensure that on receipt of a GRS after an early dialogue with receipt of a 181 Being forwarded provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values					
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	181 Being forwarded		
	GRS →	<b>→</b>	CANCEL		
	GRA <b>←</b>	<b>←</b>	200 OK (CANCEL)		
			487 Request Terminated		
		<b>→</b>	ACK		

TP number	TP_210_009	Referen	ce	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/I	Receipt_of_RSC-G	RS-CGB/			
Selection criteria						
Test Purpose name	Receipt of GRS after	an early dialogue	vith 183 was es	stablished		
Test Purpose	Progress provisional	Ensure that on receipt of a GRS after an early dialogue with receipt of a 183 Session Progress provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values				·		
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP	MG	CF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			+	183 Session Progress		
	GRS	<b>→</b>	<b>→</b>	CANCEL		
	GRA	<b>←</b>	<b>←</b>	200 OK (CANCEL)		
			<b>←</b> →	487 Request Terminated ACK		

TP number	TP_210_010	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic cal	/Receipt_of_RSC-GRS-CG	B/			
Selection criteria						
Test Purpose name	Receipt of GRS after	er a confirmed dialogue was	established			
Test Purpose		Ensure that on receipt of GRS after a confirmed dialogue with a 200 OK (INVITE) final esponse was established, a BYE request is sent				
ISUP Parameter values						
SIP Parameter values	BYE: Reason:					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM ACM ANM	<b>→</b> ← ←	<ul> <li>→ INVITE</li> <li>← 180 Ringing</li> <li>← 200 OK (INVITE)</li> <li>→ ACK</li> </ul>			
	GRS GRA	<b>→</b> ←	<ul><li>→ BYE</li><li>← 200 OK (BYE)</li></ul>			

TP number	TP_210_011	Reference		7.2.3.2.15	
TSS reference	ISUP-SIP/Basic cal	II/Receipt_of_RSC-GRS-CGI	3/		
Selection criteria					
Test Purpose name	Receipt of GRS after are terminated.	er a confirmed dialogue was	establis	shed, all affected communications	
Test Purpose	with a 200 OK (INV	Two connections are established. Ensure that on receipt of GRS after a confirmed dialogue with a 200 OK (INVITE) final response was established, a BYE request for each of the established connection is sent			
ISUP Parameter values					
SIP Parameter values	BYE: Reason:				
Comments					
Message flows	ISUP	MGCF		Mg	
		Two connection a	re esta	blished	
	GRS	<b>→</b>			
	GRA	<b>←</b>	<b>→</b>	BYE (1)	
			<b>←</b>	200 OK (BYE)	
			<b>→</b>	BYE (2)	
			+	200 OK (BYE)	

TP number	TP_210_012	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Rece	eipt_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of CGB 'hardwar	e oriented' before an early	/ dialogue was established		
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' before an early dialogue is established, a CANCEL request is sent containing a Reason header. The SUT received a 487 Request Terminated and sends an ACK request				
ISUP Parameter values	CGB: Circuit group supe	ervision message type=ha	rdware failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	CGB	<b>→</b> <b>→</b>	<ul> <li>→ INVITE</li> <li>← 100 Trying</li> <li>→ CANCEL</li> <li>← 200 OK (CANCEL)</li> <li>← 187 Party at Tarminated</li> </ul>		
			<ul><li>← 487 Request Terminated</li><li>→ ACK</li></ul>		

TP number	TP_210_013	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/F	Receipt_of_RSC-GRS-CGE	3/		
Selection criteria					
Test Purpose name	Receipt of CGB 'hard	ware oriented' after an earl	y dialogue with 180 was established		
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' after an early dialogue with receipt of a 180 Ringing provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values	CGB: Circuit group s	supervision message type=	hardware failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 180 Ringing		
	CGB	<b>→</b>	→ CANCEL		
	CGBA	<b>←</b>	← 200 OK (CANCEL)		
			<ul><li>← 487 Request Terminated</li><li>→ ACK</li></ul>		

TP number	TP_210_014	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Recei	ot_of_RSC-GRS-CGB/	·		
Selection criteria					
Test Purpose name	Receipt of CGB 'hardware	oriented' after an early dia	alogue with 181 was established		
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' after an early dialogue with receipt of a 181 Being forwarded provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values	CGB: Circuit group super	vision message type=hard	dware failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	•	→ INVITE		
			← 181 Being forwarded		
	CGB -	•	→ CANCEL		
	CGBA <b>€</b>	-	← 200 OK (CANCEL)		
			← 487 Request Terminated		
			→ ACK		

TP number	TP_210_015	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Rece	eipt_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of CGB 'hardwar	e oriented' after an early d	ialogue with 183 was established		
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' after an early dialogue with receipt of a 183 Session Progress provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values	CGB: Circuit group supe	rvision message type=har	dware failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			← 183 Session Progress		
	CGB	<b>→</b>	→ CANCEL		
	CGBA	<b>←</b>	← 200 OK (CANCEL)		
			← 487 Request Terminated		
			→ ACK		

TP number	TP 210 016	Reference	7.2.3.2.15
TSS reference	ISUP-SIP/Basic cal	I/Receipt_of_RSC-GRS-CG	B/
Selection criteria		· = =	
Test Purpose name	Receipt of CGB 'ha	rdware oriented' after a conf	irmed dialogue was established
Test Purpose	Ensure that on rece	ipt of CGB 'hardware orient	ed' after a confirmed dialogue with a 200
	OK (INVITE) final re	esponse was established, a	BYE request is sent
ISUP Parameter values	CGB: Circuit group	supervision message type:	hardware failure oriented
SIP Parameter values	BYE: Reason:		
Comments			
Message flows	ISUP	MGCF	Mg
_	IAM	<b>→</b>	→ INVITE
	ACM	<b>←</b>	← 180 Ringing
	ANM	<b>←</b>	← 200 OK (INVITE)
			→ ACK `
	CGB	<b>→</b>	→ BYE
	CGBA	<b>←</b>	← 200 OK (BYE)

TP number	TP_210_017	Reference	7.2.3.2.15	
TSS reference	ISUP-SIP/Basic call/Receipt_of	RSC-GRS-CGB/		
Selection criteria				
Test Purpose name	Receipt of CGB 'hardware orier communications are terminated		ogue was established, all affected	
Test Purpose	Two connections are established. Ensure that on receipt of CGB 'hardware oriented' after a confirmed dialogue with a 200 OK (INVITE) final response was established, a BYE request for each of the established connection is sent			
ISUP Parameter values	CGB: Circuit group supervision	n message type=hardware	failure oriented	
SIP Parameter values	BYE: Reason:			
Comments				
Message flows	ISUP	MGCF	Mg	
	Tw	o connection are establi	shed	
	CGB →			
	CGBA <b>←</b>	<b>→</b> E	BYE (1)	
		← 2	200 OK (BYE)	
			BYE (2) 200 OK (BYE)	

#### 6.1.2.11 Autonomous Release at O-MGCF

TP number	TP_211_001	Reference	7.2.3.2.16
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/	
Selection criteria	PICS 6.2.1/3		
Test Purpose name	COT procedure fails		
Test Purpose	IAM received and the continuit	y check indicator is set to	'continuitycheck required' or
	performed on a previous circu	it'. Ensure that on receipt	of a COT message and the
			lready established early dialog is
		st is sent. A Reason head	er is present containing the cause
	value '41'		
ISUP Parameter values	COT: 'continuity check failed'		
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		+	100 Trying
		+	183 Session Progress
		<b>→</b>	PRACK
		+	200 OK (PRACK)
	сот →	<b>→</b>	CANCEL
		<b>←</b>	200 OK (CANCEL)
		<b>←</b>	487 Request Terminated
		<b>→</b>	ACK

TP number	TP_211_002	Reference	7.2.3.2.16		
TSS reference	ISUP-SIP/Basic call/Autonomo	us_Release/	•		
Selection criteria	PICS 6.2.1/3				
Test Purpose name	T8 expires				
Test Purpose	IAM received and the continuity check indicator is set to 'continuitycheck required' or 'performed on a previous circuit'. Ensure that on expiry of ISUP timer T8 the already established early dialog is terminated. A CANCEL request is sent				
ISUP Parameter values		•			
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	Start T8 ← 100 ← 183 → PR	/ITE ) Trying 3 Session Progress ACK ) OK (PRACK)		
	-	← 200	NCEL O OK (CANCEL) 7 Request Terminated K		

TP number	TP 211 003	Reference	7.2.3.2.16		
TSS reference	ISUP-SIP/Basic call/Autonomo	us Release/	1=		
Selection criteria		· · · · · · · · · · · · · · · · · · ·			
Test Purpose name	Call is released to due messag dialogue	e compatibility instruction	'Release call' received in the early		
Test Purpose	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 header 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 message use	a message type unknown	in the SUT.		
Message flows	ISUP	MGCF	Mg		
	IAM →	→	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	???	_			
	REL ← → CANCEL				
	RLC →	<del>-</del>	200 OK (CANCEL)		
		<b>←</b>	487 Request Terminated		
		<b>→</b>	ACK		

TP number	TP_211_004	Reference	7.2.3.2.16			
TSS reference	ISUP-SIP/Basic call/Autono	mous_Release/				
Selection criteria						
Test Purpose name	Call is released to due mess confirmed dialogue	sage compatibility instruction	n 'Release call' received in the			
Test Purpose	message compatibility is set	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:	y information: Release call	indicator=release call			
SIP Parameter values	BYE: Reason:					
Comments	For an unknown message u	se a message type unknow	n in the SUT.			
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	<b>+</b>	<b>←</b> →	200 OK (INVITE) ACK			
	??? →					
	REL ← RLC →	<b>→</b>	BYE 200 OK (BYE)			

TP number	TP_211_005	Reference	7.2.3.2.16				
TSS reference	ISUP-SIP/Basic call/Autonomo	us_Release/					
Selection criteria							
Test Purpose name	Call is released to due parame	ter compatibility instructio	n 'Release call' received in the				
	early dialogue						
Test Purpose	Ensure that on receipt of a CP	G in the early dialogue an	d an unknown parameter is				
	present the parameter compati	bility instruction is set to '	release call' an ISUP REL				
	message is sent and the Cause	e indicator is set to value	99 or 110. In addition a SIP				
	CANCEL request is sent and a	Reason header field is p	resent.				
ISUP Parameter values	CPG: Parameter compatibility	information: Release call	l indicator=release call				
	REL: Cause=99 or 110						
SIP Parameter values	CANCEL: Reason:						
Comments	For an unknown parameter use	e a parameter type unkno	wn in the SUT.				
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
	ACM ←	<del>-</del>	180 Ringing				
	CPG →						
	REL ←	REL ← → CANCEL					
	RLC →	<b>←</b>	200 OK (CANCEL)				
		<b>←</b>	487 Request Terminated				
		<b>→</b>	ACK				

TP number	TP_211_006	Reference	7.2.3.2.16		
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/			
Selection criteria					
Test Purpose name	Call is released to due parame confirmed dialogue	eter compatibility instruction	on '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	<b>CPG:</b> Parameter compatibility <b>REL:</b> Cause=99 or 110	vinformation: Release cal	l indicator=release call		
SIP Parameter values	BYE: Reason:				
Comments	For an unknown parameter us	e a parameter type unkno	own in the SUT.		
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
	CPG →				
	REL <b>←</b>	<b>→</b>	BYE		
	RLC →	+	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		7.4.2
TSS reference	PSTN-SS/COL/			
Selection criteria	NOT PICS 6.3.4/1 AND (PI	CS 6.3.1/1 OR PICS 6.3.1/2)	) AND	PICS 6.3.2/2
Test Purpose name	The SUT does not invoke the	ne COLP service		
Test Purpose		n INVITE request ant the SU⁻		
		the Connected Line Identity		
	1 -	tors parameter of the IAM to	'not re	equested'. A received
	connected number is not in			
ISUP Parameter values		ard call indicators = 'not requ	uested	j'
	ANM/CON: Connected n			
SIP Parameter values	200 OK: P-Asserted-Iden	tity not present		
Comments				
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	100 Trying	<b>←</b>		
	CASE A			
	180 Ringing	<b>←</b>	←	ACM
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM
	ACK	<b>→</b>		
	CASE B			
	200 OK (INVITE)	<b>←</b>	←	CON
	ACK	<b>→</b>		
		Apply post test routing	ne	

TP number	TP_302_002	Reference	e	7.4.2.1.2		
TSS reference	PSTN-SS/COL/	•				
Selection criteria	PICS 6.3.4/1 AND	(PICS 6.3.1/1 OR PICS	6.3.1/2) AND PIC	CS 6.3.2/2		
Test Purpose name						
Test Purpose	The SUT invokes the COLP service presentation allowed  Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an IAM is sent and the Connected Line Identity Request indicator" field of the Optional forward call indicators parameter of the IAM to 'requested'. A received connected number presentation allowed is interworked.  Connected number  Nature of Address Indicator equal to  'national (significant) number' 200 OK INVITE P-Asserted-Identity Add CC (of the country where the SUT is located) to Connected number address signals to construct an E.164 number in the URI. Prefix number with '+' in the format '+ CC NDC SN.'  'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to construct an E.164 number in the URI. Prefix number with "+" in the Format '+ CC NDC SN'.  Address presentation restriction indicator  'presentation allowed'					
ISUP Parameter values		er is not present or if pre onal forward call indica				
loor randingtor range		ANM/CON: Connected number present				
SIP Parameter values	INVITE: P-Asser	INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present				
Comments		• •				
Message flows	Mg INVITE 100 Trying  CASE A 180 Ringing 200 OK (INVITE) ACK  CASE B 200 OK (INVITE) ACK	+ ← + + +	MGCF  ←  cost test routine	ISUP  IAM  ACM ANM  CON		
		Арріу р	ost test routine			

TP number	TP_302_003	Reference		7.4.2.1.2			
TSS reference	PSTN-SS/COL/						
Selection criteria	PICS 6.3.4/1 AND (PIC	CS 6.3.1/1 OR PICS	6.3.1/2) AND PIC	S 6.3.2/2			
Test Purpose name	The SUT invokes the C						
Test Purpose				okes the COLP service, an			
_	IAM is sent and the Co	nnected Line Identity	Request indicate	or" field of the Optional forward			
	call indicators paramete	call indicators parameter of the IAM to 'requested'. A received connected number					
	presentation restricted	is interworked					
	Connected number						
	Nature of Address India	-					
	<ul> <li>'national (significar</li> </ul>						
	200 OK INVITE P-						
				nnected number address			
		ct an E.164 number i	n the URI. Prefix i	number with '+' in the format '+			
	CC NDC SN.'						
	'international numb						
	200 OK INVITE P-						
	the LIBI Drefix pur	nected number addi mber with "+" in the F	ress signals to co	nstruct an E.164 number in			
	Address presentation r		Office + CC NDC	2 3N.			
	•						
	<ul> <li>'presentation restricted'</li> <li>Privacy: id</li> </ul>						
ISUP Parameter values	IAM: Optional forward call indicators = 'requested'						
loor rarameter values	ANM/CON: Connected number present						
SIP Parameter values	INVITE: P-Asserted-						
	200 OK: P-Asserted-Identity present						
	Privacy: id	71					
Comments	•						
Message flows	Mg	M	GCF	ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying	<b>←</b>					
	CASE A						
	180 Ringing	<b>←</b>		ACM			
	200 OK (INVITE)	<b>←</b>	+	ANM			
	ACK	<b>→</b>					
	CACE D						
	CASE B	_	<b>←</b>	CON			
	200 OK (INVITE)	<b>←</b> →	~	CON			
	ACK		et toet routine				
		Apply po:	st test routine				

TP number	TP_302_004	Reference	7.4.2.2
TSS reference	PSTN-SS/COL/		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1	1/2) AND PICS 6.3.2/2	
Test Purpose name	COL request is set to 'not re-	quested'	
Test Purpose	Ensure that on receipt of an	IAM and the Connected Line	Identity Request indicator in the
	Optional Forward Call Indica	tors parameter is set to 'not i	requested', no P-Asserted-Identity
	received in a provisional or s	successful final response is p	resent. No connected number is
	sent in an ANM or CON.		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	CASE A		
	ACM ←	<del>-</del>	180 Ringing
	ANM ←	<b>←</b>	200 OK (INVITE)
		<b>→</b>	ACK
	CASE B		
	CON +	<b>←</b>	200 OK (INVITE)
		<b>→</b>	ACK
		Apply post test routing	e

TP number	TP_302_004A	Reference	7.4.2.2			
TSS reference	PSTN-SS/COL/	1.0.0.0.00				
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1	/2) AND PICS 6 3 2/2				
Test Purpose name		uested P-Asserted-Identity is	not manned			
Test Purpose		•	dentity Request indicator in the			
rest i dipose			quested, a P-Asserted-Identity			
			esent. No connected number is			
	sent in an ANM or CON.	accessiai iiriai response is pro	ssent. No connected number is			
ISUP Parameter values	SCITCHT ATT / CANN OF COTA.					
SIP Parameter values	200 OK: P-Asserted-Identit	v present				
Comments	200 OK. 1 -Asserted-identit	y present				
Message flows	ISUP	MGCF	Mg			
Wessage nows	IAM →		NVITE			
	IAW					
	← 100 Trying					
	CASE A					
			OO Discusions			
	ACM +		80 Ringing			
	ANM ←		00 OK (INVITE)			
		<b>→</b> A	CK			
	CASE B					
	CON ←		00 OK (INVITE)			
		<b>→</b> A	CK			
		Apply post test routine				

TP number	TP_302_004B	Reference	7.4.2.2
TSS reference	PSTN-SS/COL/		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/2	
Test Purpose name	COL request is set to requeste	d P-Asserted-Identity is n	ot received a network provided
	Connected number is sent		
Test Purpose			e Identity Request indicator in the
			uested', no P-Asserted-Identity
	received in a provisional or suc		present. A network provided
	connected number is sent in a		
	The Nature of address ind	•	
	Numbering plan indicator		
	Address presentation rest		s not available
	Screening indicator = netv		
	Address signals: not prese	ent	
ISUP Parameter values	ANM/CON:		
	Connected number		
SIP Parameter values			
Comments	10115		
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		+	100 Trying
	CASE A		
	ACM	<b>←</b>	100 Dinging
	ANM <b>+</b>	<del>-</del>	180 Ringing
	AINIVI	<b>→</b>	200 OK (INVITE) ACK
		7	ACK
	CASE B		
	CON +	+	200 OK (INVITE)
		<b>→</b>	ACK
		Apply post test routing	
	_1	pp., poor toot routin	••

TP number	TP_302_005	R	eference	7.4.2.2		
TSS reference	PSTN-SS/COL/		010101100	1.7.2.2		
Selection criteria	(PICS 6.3.1/1 OR F	PICS 6 3 1/2)	AND PICS 6 3 2/2	)		
Test Purpose name				tity received in a 180 response		
Test Purpose				ed Line Identity Request indicator in the		
l cot i diposo				o 'requested', the P-Asserted-Identity		
	received in a provis					
	Coding of Connec					
			equal to 'Complet	e'		
				hony (Recommendation E.164 [i.1])'		
	Nature of Addre		·	,		
	If CC encod	led in the URI	is equal to the CC	of the country where MGCF is located		
				the same country then set to		
		l (significant) r	number"			
	else set to					
		ional number"				
	Address Presentation Restricted Indicator derived from the Privacy header according					
ISUP Parameter values	the mapping as described in table 6.2.2-1					
150P Parameter values		IAM: Optional Forward Call Indicators				
	Connected Line Identity Request = requested  ANM: Connected number					
	Presentation restriction <b>Privacy_VA</b>					
SIP Parameter values	180:	ation restriction	TTTTVACY_VA			
	P-Asserted-	Identity				
Comments	. /10001100					
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>		→ INVITE		
				← 100 Trying		
	ACM	<b>←</b>		← 180 Ringing		
	ANM	<b>←</b>		← 200 OK (INVITE)		
				→ ACK		
			Apply post test	routine		

TP number	TP_302_006	Re	eference	7.4.2.2	
TSS reference	PSTN-SS/COL/				
Selection criteria	(PICS 6.3.1/1 OR P	PICS 6.3.1/2) A	ND PICS 6.3.2/2		
Test Purpose name	COL request is set	to 'requested' <sup>-</sup>	Terminating identity re	eceived in a 200 OK response	
Test Purpose				ne Identity Request indicator in the	
				quested', the P-Asserted-Identity	
	received in a 200 O				
	Coding of Connecte				
			equal to 'Complete'	(D	
			al to 15DN/Telephony	(Recommendation E.164 [i.1])	
	Nature of Addre		a agual to the CC of t	he country where MGCF is located	
				same country then set to	
		(significant) n		same country men set to	
	else set to	(Significant) In	ambei		
		onal number"			
	Address Presen	tation Restricte	ed Indicator derived f	rom 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	200:				
	P-Asserted-Identity				
Comments	ICUD		МОСЕ	NA	
Message flows	ISUP		MGCF	Mg	
	IAM → INVITE				
	ACM	<b>←</b>	<del>+</del>	100 Trying	
	_	<del>-</del>	<del>-</del>	180 Ringing	
	ANM	~	<b>→</b>	200 OK (INVITE) ACK	
	Apply post test rou	utino	7	AUN	
	Apply post test for	utille			

TP number	TP 302 007	Reference	7.4.2.2	
TSS reference	PSTN-SS/COL/		•	
Selection criteria		S 6.3.1/2) AND PICS 6.3	.2/2	
Test Purpose name				
Test Purpose	COL request is set to requested Terminating identity received in a 200 OK response  Ensure that on receipt of an 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 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			
	the mapping as described in table 6.2.2-1			
ISUP Parameter values	IAM: Optional Forward Call Indicators Connected Line Identity Request = requested CON: Connected number Presentation restriction Privacy_VA			
SIP Parameter values	200:	mirodinodori i iivaoy_vii		
on randinging rands	P-Asserted-Ide	entity		
Comments				
Message flows	ISUP MGCF Mg			
	IAM ANM	<b>→</b> ←	<ul> <li>→ INVITE</li> <li>← 100 Trying</li> <li>← 200 OK (INVITE)</li> <li>→ ACK</li> </ul>	
	Apply post test routi	ine		

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	Id	Presentation restricted
Privacy_VA_05	Privacy header not present	Presentation allowed

#### 6.2.3 Malicious call identification

TP number	TP_303_001	Reference	7.4.4
TSS reference	PSTN-SS/MCID/		
Selection criteria	NOT PICS 6.3.2/3		
Test Purpose name	MCID request before ACM		
Test Purpose	Ensure that a MCID request before an ACM received in an ISUP IDR is discarded without disrupt the call setup procedure. The sending of an IRS is optional		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE  100 Trying  ←		IAM
	CASE A	<b>←</b> →	IDR IRS
	CASE B	<b>←</b>	IDR
		Apply post test routine	

I	1	T
TP_303_002	Reference	7.4.4
PSTN-SS/MCID/		
NOT PICS 6.3.2/3		
MCID request after ACM		
disrupt the call setup procedure	e. The sending of an IRS is o	ptional
Mg	MGCF	ISUP
INVITE →	→	IAM
100 Trying ←		
180 Ringing ←	<b>+</b>	ACM
CASE A		
	<b>+</b>	IDR
	→	IRS
CASE B		
	<b>+</b>	IDR
	Apply post test routine	
	NOT PICS 6.3.2/3  MCID request after ACM  Ensure that a MCID request after disrupt the call setup procedure  Mg  INVITE  100 Trying  180 Ringing  CASE A	PSTN-SS/MCID/ NOT PICS 6.3.2/3  MCID request after ACM  Ensure that a MCID request after an ACM received in an IS disrupt the call setup procedure. The sending of an IRS is o  Mg MgCF  INVITE   100 Trying  180 Ringing  CASE A  CASE B

## 6.2.4 Subaddressing (SUB)

TP number	TP_304_001	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	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 ini			
	present in the To header is ma			
		Access Transport parameter in the sent IAM. If the isub-encoding parameter is present, the		
	values 'nsap-ia5', 'nsap-bcd' or	'nsap' are relevant for mappin	g	
	Encoding of the Subaddress in	the IAM:		
	Type of Subaddress='NSAP'			
	Subaddress digits derived from	n the uric of the isub parameter	•	
ISUP Parameter values	IAM: Access Transport			
	Called party subaddress			
	Type of Subaddress=NSAP			
	Subaddress digits derived from the uric of the isub parameter			
SIP Parameter values	INVITE: To:			
	isub			
	uric Subaddress digits			
	isub-encodin	g: Not present		
		nsap-ia5		
		nsap-bcd		
		nsap		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →		IAM	
	100 Trying ←			
		Apply post test routine		

TP number	TP_304_002	Reference	7.4.5.2
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 6.3.2/4		
Test Purpose name	isub parameter in the To heade	r is not mapped	
Test Purpose	Ensure that on receipt of an initial INVITE request, an IAM is sent. The isub parameter present in the To header is not mapped into the Called party Subaddress if the value of the <b>isub-encoding</b> parameter is other then 'nsap-ia5', 'nsap-bcd' or 'nsap'		
ISUP Parameter values			
SIP Parameter values	INVITE: To:		
	isub		
	uric Subaddress digits		
	isub-encoding	g: <any token=""></any>	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	-	Apply post test routine	

TP number	TP_304_003	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.2/4			
Test Purpose name	isub parameter in the P-Assert	ed-Identity header is mapped i	nto Calling party Subaddress	
Test Purpose		itial INVITE request, an IAM is		
		tity header is mapped into the		
	covered in an Access Transpo			
	is present, the values 'nsap-ias	5', 'nsap-bcd' or 'nsap' are relev	ant for mapping	
	Encoding of the Subaddress:			
	Type of Subaddress='NSAP'			
	Subaddress digits derived from	n the uric of the isub parameter	•	
ISUP Parameter values	IAM: Access Transport	IAM: Access Transport		
	Calling party subade	dress		
	Type of Subaddress=NSAP			
	Subaddress digits derived from the uric of the isub parameter			
SIP Parameter values	INVITE: P-Asserted-Identity:			
	isub			
	uric Subaddress digits			
	isub-encodin	g: Not present		
		nsap-ia5		
		nsap-bcd		
		nsap		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	· →	IAM	
	100 Trying ←	•		
		Apply post test routine		

TP number	TP_304_004	Reference	7.4.5.2
TSS reference	PSTN-SS/SUB/	•	·
Selection criteria	PICS 6.3.2/4		
Test Purpose name	isub parameter in the	P-Asserted-Identity header in	the INVITE is not mapped
Test Purpose	Ensure that on receipt of an initial INVITE request, an IAM is sent. The isub parameter present in the P-Asserted-Identity header is not mapped into the Calling party Subaddress if the value of the <b>isub-encoding</b> parameter is other then 'nsap-ia5', 'nsap-bcd' or 'nsap'		
ISUP Parameter values			
SIP Parameter values	INVITE: P-Asserted	d-Identity:	
	isub		
	uric Subaddress digits		
	isul	b-encoding: <any token=""></any>	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	100 Trying	<b>←</b>	
	. •	Apply post test ro	outine

TP number	TP_304_005	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.2/4			
Test Purpose name	Connected party Subaddress in the ANM is mapped into the isub parameter in the P-Asserted-Identity header in the 200 OK			
Test Purpose	Ensure that on receipt of an ANM message containing a Connected party Subaddress parameter in an Access Transport parameter, a 200 OK (INVITE) is sent and the P-Asserted-Identity header contains an isub parameter, the uric value is derived from the Connected Subaddress digits of the Connected party subaddress digits			
ISUP Parameter values	ANM: Access Transport			
	Connected party subaddress			
	Type of Subaddress=NSAP			
	Subaddress digits			
SIP Parameter values	200 OK: P-Asserted-Identity:			
	isub			
	uric digits derived from the Connected party Subaddress digits			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	180 Ringing ←	<b>←</b>	ACM	
	200 OK (INVITE)			
	ACK →			
		Apply post test routine		

TSS reference Selection criteria	PSTN-SS/SUB/ PICS 6.3.2/4				
	Connected party Subaddress is				
Test Purpose name	Connected party Subaddress in	Connected party Subaddress in the ANM is not mapped			
Test Purpose	Ensure that on receipt of an 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 'NSAP'				
ISUP Parameter values	ANM: Access Transport Connected party subaddress Type of Subaddress other then NSAP				
SIP Parameter values	<b>,</b> ,				
Comments					
Message flows	Mg INVITE → 180 Ringing ← 200 OK (INVITE) ← ACK →	MGCF  ←  Apply post test routine	ISUP IAM ACM ANM		

TP number	TP_304_007	Reference	7.4.5.3
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 6.3.2/4		
Test Purpose name	Mapping of Called Party subaddress in the IAM into isub parameter in the To header in the INVITE		
Test Purpose	Ensure that on receipt of an 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 subadd Type of Subaddr Subaddress digit	ess=NSAP	
SIP Parameter values	INVITE: To:  isub  uric digits del isub-encodin	rived from the Called party Sul g=nsap-ia5	baddress digits
Comments		<u> </u>	
Message flows	ISUP	MGCF	Mg
_	IAM →	<b>→</b>	INVITE 100 Trying
		Apply post test routine	

TP number	TP 304 008	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/	inciciono e	7.4.0.0	
Selection criteria	PICS 6.3.2/4			
Test Purpose name		No mapping of Called Party subaddress in the IAM		
-	11 5			
Test Purpose	Ensure that on receipt of an IAI			
	Transport parameter, an initial	INVITE is sent. The Called par	ty subaddress is not mapped	
	into an isub parameter present			
	subaddress is not equal to 'NS		7,	
ISUP Parameter values	IAM: Access Transport	,		
	Called party subaddress			
	Type of Subaddress not NSAP			
		Subaddress digits		
	Oubaudiess digits			
SIP Parameter values				
Comments				
Message flows	Mg MGCF ISUP			
_	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine	, 3	

TP number	TP_304_009	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.2/4			
Test Purpose name	Mapping of Calling Party subaddress in the IAM into isub parameter in the P-Asserted- Identity header in the INVITE			
Test Purpose	Ensure that on receipt of an IAM containing a Calling party subaddress in the Access Transport parameter, an initial INVITE is sent. The Calling party subaddress is mapped into an isub parameter present in the <b>P-Asserted-Identity header</b> in the INVITE if the Type of number of the subaddress is equal to 'NSAP', the isub-encoding parameter is set to 'nsapia5'.			
ISUP Parameter values	IAM: Access Transport Calling party subaddress Type of Subaddress=NSAP Subaddress digits			
SIP Parameter values	INVITE: P-Asserted-Identity:			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	← 100 Trying			
	Apply post test routine			

TP number	TP_304_010	Reference		7.4.5.3	
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	AND PICS 6.3.2/4	AND PICS 6.3.2/4			
Test Purpose name	No mapping of Calling	g Party subaddress in	the IAM		
Test Purpose	Ensure that on receipt of an 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	Calling par Type of	IAM: Access Transport Calling party subaddress Type of Subaddress not NSAP Subaddress digits			
SIP Parameter values		<u> </u>			
Comments					
Message flows	Mg	Mg MGCF ISUP			
	IAM	→ Apply po	→ ← st test routine	INVITE 100 Trying	

TP number	TP_304_011	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Mapping of isub parameter in	n the 200 OK into the Connected	party subaddress in the ANM		
Test Purpose		isub parameter present in the P-			
		d the received Subaddress is m			
		ccess Transport parameter in the			
		ues 'nsap-ia5', 'nsap-bcd' or 'nsa	ap' are relevant for mapping		
ISUP Parameter values	ANM: Access Transport				
	Connected party s				
	Type of Subac				
		gits 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				
		nsap			
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
	ACM <b>←</b>	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routine			

TP number	TP_304_012	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Mapping of isub parameter in the 200 OK into the Connected 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-Identity: isub				
Comments	isub-encoding: Not nsap-ia5, nsap-bcd, nsap				
		11005	IOLID		
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<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	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-uri into early ACM Re-	direction number and Redirecting	
	Reason			
Test Purpose	<ul> <li>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:</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 and sent in the Address signal of the Redirection number</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 and sent in the Address signal of the Redirection number</li> <li>The Redirecting reason in the Call Diversion Information parameter is set as indicated in</li> </ul>			
ISUP Parameter values	table 6.2.5-1			
	ACM: Called party status=no indication 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 proper="" uri?reason="SIP;cause=CAUSE_value">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments	ICUE	МОСТ	NA	
Message flows	ISUP	MGCF	Mg	
	IAM	<u>-</u>	NVITE	
	ACM	<del>-</del>	← 181 Call Is Being Forwarded	
	Apply 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_001A	Reference	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	6.3.2/5		
Test Purpose name	Mapping of 181 into early			
Test Purpose			ded) History-Info header, an ACM is	
	sent. The Generic notifica	tion indicator is set to 'Cal	I is diverting'	
ISUP Parameter values	ACM: Called party status	=no indication		
	Generic Notificatio	n		
	call is diverting			
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM -	<b>→</b>	→ INVITE	
	ACM	<del>(</del>	← 181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP 305 002	Reference	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 P	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name			Notification subscription options			
Test Purpose	Ensure that on recei	pt of 181 (Call Is Being Forw	/arded) containing a Privacy header, an			
	ACM is sent. The ca	lled party status is set to 'no	indication'.			
	The Notification subs	scription options in the Call [	Diversion Information parameter is set			
	according the Privac	y header in the message bo	dy as indicated in table 6.2.5-2			
ISUP Parameter values	ACM: Called party s	ACM: Called party status=no indication				
	Call Diversion	Call Diversion Information				
	Notificatio	Notification subscription options=SUBS_options				
SIP Parameter values	181:	181:				
	Privacy: <b>Priv-val</b>	Privacy: <b>Priv-value</b>				
	History-Info: <si< th=""><th>ip:any proper URI?Reason=</th><th>SIP;cause=any value &gt;; index=1,</th></si<>	ip:any proper URI?Reason=	SIP;cause=any value >; index=1,			
	<si< th=""><th>ip:any proper URI&gt;; index=1</th><th>.1</th></si<>	ip:any proper URI>; index=1	.1			
Comments						
Message flows	ISUP	MGCF	Mg			
_	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 181 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	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	Mapping of 181 escaped Privacy header into early ACM Notification subscription options			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy header field in the last hi-targeted-to-uri, an 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 escaped Privacy header in the last History entry as indicated in table 6.2.5-3				
ISUP Parameter values	ACM: Called party status=no indication Call Diversion Information Notification subscription options=SUBS options				
SIP Parameter values	181: History-Info: <pre></pre>				
Comments	Privacy and Reason header can appear in reverse order				
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	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	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 heade	r into early ACM Redirectio	n number restriction		
Test Purpose	Ensure that on receipt of 181 (				
	ACM is sent. The called party:				
	The Redirection number restrict	ction is set according the Pr	ivacy header in the message		
	body as indicated in table 6.2.5	5-4			
ISUP Parameter values	ACM: Called party status=no indication				
	Redirection number res	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 pro<="" th=""><th>per URI&gt;; index=1.1</th><th></th></sip:any>	per URI>; index=1.1			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	NVITE		
	ACM ←	← 1	81 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_305_005	Reference	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 Priv	acy header into early ACM	A Redirection number restriction		
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 Redirection number rest	riction 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 number restriction= PRES_restr				
SIP Parameter values	181:				
	History-Info:				
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></sip:any></pre>				
Comments					
Message flows	ISUP MGCF Mg				
_	IAM → INVITE				
	ACM ← 181 Call Is Being Forwarded				
	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	7.4.6.2.2		
			table 7.4.6.2.2.2,		
			table 7.4.6.2.2.7		
TSS reference	PSTN-SS/CDIV/	·	<u>.</u>		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3				
Test Purpose name	Mapping of 181 hi-targeted	to-uri into CPG Redirection nui	mber and Redirecting Reason		
Test Purpose	is set to 'Progress'. The His Reason header is mapped • If CC is equal the coun	Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The Event indicator is set to 'Progress'. 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			
	<ul> <li>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.</li> <li>The Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.2.5-5</li> </ul>				
ISUP Parameter values	CPG: Event=Progress OR				
		Event=Redirecting_Reason			
	Redirection number				
		Derived from the last History-Info entry			
	Call Diversion Information				
		on= Redirecting_Reason			
SIP Parameter values	181: History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> II	NVITE		
	ACM ←	<b>←</b> 1	80 Ringing		
	CPG ← 181 Call Is Being Forwarded				
	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	TD 205 006A	Referenc	^	7.4.6.2.2	
i Filallibei	TP_305_006A	Kelelelic	E		
				table 7.4.6.2.2.2,	
				table 7.4.6.2.2.7	
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-uri into CP	G Generic notif	ication is set to 'Call is diverting'	
Test Purpose	Ensure that on red	ceipt of 181 (Call Is Beir	ng Forwarded)	a CPG is sent. The Event indicator	
-	is set to 'Progress	is set to 'Progress'. The Generic notification indicator is set to 'Call is diverting'.			
ISUP Parameter values	CPG: Event=Progress				
	Generic Notification				
	call is d	liverting			
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGC	F	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	CPG	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test routine				

TP number	TP_305_007	Reference	7.4.6.2.2 table 7.4.6.2.2.2		
			table 7.4.6.2.2.7		
TSS reference	PSTN-SS/CDIV/				
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-uri escaped Reason header into CPG Event indicator			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The Event indicator is set to 'Redirecting_Reason' as indicated in table 6.2.5-6. The History-Info entry following the last History-Info entry containing a Reason header is mapped 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 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</li> </ul>				
ISUP Parameter values	CPG: Event=Redirecting_Reason Redirection number Derived from the last History-Info entry				
SIP Parameter values	181: History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →		VITE		
	ACM ←		0 Ringing		
	CPG ← 181 Call Is Being Forwarded				
	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	7.4.6.2.2			
			table 7.4.6.2.2.4			
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 181 Pr	Mapping of 181 Privacy header into CPG Notification subscription options				
Test Purpose	CPG is sent. The Internation Survival CPG is sent. The Internation Survival CPG is sent.	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a CPG is sent. The Event indicator is set to 'Progress'.  The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.2.5-7				
ISUP Parameter values	CPG: Event=Progress Call Diversion Information Notification subscription options=SUBS options					
SIP Parameter values	History-Info: <	- 1				
Comments	, , , , , , , , , , , , , , , , , , , ,					
Message flows	ISUP	ISUP MGCF Mg				
	IAM ACM	<b>→</b>	→ INVITE ← 180 Ringing			
	CPG ← 181 Call Is Being Forwarded  Apply post test routine					

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	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 Privacy header into CPG Notification subscription options				
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy header field in the last hi-targeted-to-uri, a CPG is sent. The Event indicator is set to 'Progress'.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History 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: <pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any></pre> <sip:any proper="" uri?<i="">Privacy=Priv-value&gt;; index=1.1</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b> IN\	/ITE		
	ACM ← 180 Ringing				
	CPG ← 181 Call Is Being Forwarded				
	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	7.4.6.2.2		
Ti Tidiliboi	11 _000_010	11010101100	table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/		table 1.4.0.2.2.3		
Selection criteria					
		PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Privacy he				
Test Purpose			ed) containing a Privacy header in the		
	message body, a CPG is s	ent. The Event indicator is	s set to 'Progress'.		
	The Redirection number re	striction is set according t	he Privacy header in the message		
	body as indicated in table 6.2.5-9				
ISUP Parameter values	CPG: Event=Progress				
	Redirection number restriction= 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>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM -		→ INVITE		
	ACM <b>←</b>	•	← 180 Ringing		
	CPG <b>←</b>	•	← 181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP 305 011	Reference	7.4.6.2.2	
	1		table 7.4.6.2.2.3	
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 181 escaped Priva	acy header into CPG Redire	ection number restriction	
Test Purpose	Ensure that on receipt of 181	(Call Is Being Forwarded), a	a CPG is sent. The Event indicator	
	is set to 'Progress'.			
			scaped Privacy header in the last	
	History entry as indicated in ta	able 6.2.5-9		
ISUP Parameter values	CPG: Event=Progress			
	Redirection number re	Redirection number restriction= PRES_restr		
SIP Parameter values	181:			
	History-Info:	,		
	<sip:any proper="" th="" uri?f<=""><th>Reason=SIP;cause=any&gt;; in</th><th>dex=1,</th></sip:any>	Reason=SIP;cause=any>; in	dex=1,	
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ACM ←	<b>←</b>	180 Ringing	
	CPG ←	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test routine			

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	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 AN	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 180 I	hi-targeted-to-uri into ACM Red	lirection number and Redirecting Reason	
Test Purpose	<ul> <li>Ensure that on receipt of 180 (Ringing) an 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</li> </ul>			
	table 6.2.5-10		'	
ISUP Parameter values	Redirection Derive Call Dive	rty status=subscriber free on number ed from the last History-Info ent rsion Information ecting reason= Redirecting_Re		
SIP Parameter values	180:		=SIP;cause= <b>CAUSE_value</b> >; index=1,	
Comments		· · · · · · · · · · · · · · · · · · ·		
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
		Apply post te	est 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_012A	Reference		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 6.3.2/5		
Test Purpose name	Mapping of 180 hi	i-targeted-to-uri into ACM (	Generic notific	cation 'Call is diverted'
Test Purpose	Ensure that on red	ceipt of 180 (Ringing) an A	CM is sent. T	he called party status is set to
				History-Info entry containing a
	Reason header is	mapped into the Redirecti	on number: T	he Generic notification indicator
	is set to 'Call is div	verted'		
ISUP Parameter values	ACM: Called part	ty status=subscriber free		
	Generic No	otification		
	call is c	diverting		
SIP Parameter values	180:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF		Mg
	IAM → INVITE			
	ACM ← 180 Ringing			
	Apply post test routine			5 5

TP number	TP_305_013	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
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 180 Privacy hea	der into ACM Notification su	ubscription options	
Test Purpose	Ensure that on receipt of 18 an ACM is sent. The called		vacy header in the message body, iher free'	
		options in the Call Diversion	n Information parameter is set	
ISUP Parameter values		ACM: Called party status=subscriber free		
	Call Diversion Inform			
	Notification subscription options=SUBS_options			
SIP Parameter values	180:			
	Privacy: <b>Priv-value</b>	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1, <sip:any index="1.1&lt;/th" proper="" uri;=""></sip:any></sip:any>			
Comments		•		
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b>	INVITE	
	ACM ← 180 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

TP number	TP_305_014	Reference	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 escaped Priva	acy header into ACM Notif	ication subscription options	
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, an ACM is sent. The called party status is set to 'subscriber free'. The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-12			
ISUP Parameter values	ACM: Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS options			
SIP Parameter values	180: History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></sip:any>			
Comments		•		
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b>	INVITE	
	ACM ← 180 Ringing			
	Apply post test routine			

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	7.4.6.2.2	
			table 7.4.6.2.2.3	
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 180 Privacy head	er into ACM Redirection numb	er restriction	
Test Purpose	Ensure that on receipt of 180	(Ringing) containing a Privacy	header in the message body,	
	an ACM is sent. The called pa	arty status is set to 'subscriber	free'.	
	The Redirection number restr	iction is set according the Priv	acy header in the message	
	body as indicated in table 6.2.	5-13		
ISUP Parameter values	ACM: Called party status=su	ACM: Called party status=subscriber free		
	Redirection number restriction= 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>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM → INVITE			
	ACM ← 180 Ringing			
	Apply post test routine			

TP number	TP_305_016	Reference	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 6.3.2/5		
Test Purpose name			M Redirection number restriction	
Test Purpose	targeted-to-uri, an ACM The Redirection numbe	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header in the last hitargeted-to-uri, an ACM is sent. 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 stat	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 proper="" uri?<i="">Privacy=<i>Priv-value</i>&gt; ; index=1.1</sip:any></sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM	<b>→</b>	→ INVITE	
	ACM ← 180 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	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/	<sup>′</sup> 5		
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into CPG Redirection num	nber and Redirecting Reason	
Test Purpose	Ensure that on receipt of 180 (			
		entry concerning the diverted	-to number is mapped into the	
	Redirection number:			
			ed: Nature of address indicator	
	is set to 'national (signifi	cant) number', the country c	ode is removed from the digit	
	string			
			the SUT is located: Nature of	
	address indicator is set to	address indicator is set to 'international number' the digit string is used unchanged.		
ISUP Parameter values	CPG: Redirection num			
	Derived from the last History-Info entry			
	Call Diversion Informati			
	Redirecting reason= any value			
SIP Parameter values	181:			
		per URI?Reason=SIP;cause=	=any value>; index=1,	
	<sip:any pro<="" th=""><th>pper URI&gt;; index=1.1</th><th></th></sip:any>	pper URI>; index=1.1		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	= ""	VITE	
	ACM ←		11 Call Is Being Forwarded	
	CPG ←		80 Ringing	
		Apply post test routine		

Table 6.2.5-14: Void

TP number	TP_305_017A	Reference	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 Generic notif	fication 'Call is diverting'
Test Purpose			he History-Info entry concerning
			umber: The Generic notification
	indicator is set to 'Call is diver	ting'.	
ISUP Parameter values	CPG: Generic Notification	1	
	call is diverting		
SIP Parameter values	181:		
	History-Info: <sip:any pro<="" th=""><th>per URI?Reason=SIP;cau</th><th>se=any value&gt;; index=1,</th></sip:any>	per URI?Reason=SIP;cau	se=any value>; index=1,
	<sip:any pro<="" th=""><th>oper URI&gt;; index=1.1</th><th></th></sip:any>	oper URI>; index=1.1	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	181 Call Is Being Forwarded
	CPG ←	<b>←</b>	180 Ringing
		Apply post test routing	5 5

TP number	TP 305 017B	Reference	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 6.3.2/9	5	
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into CPG Event indicato	r 'ALERTING'
Test Purpose	Ensure that on receipt of 180 (		
	the diverted-to number is mapp	ed into the Redirection nur	nber: The Event information is
	set to 'Alerting'.		
ISUP Parameter values	CPG: Event=ALERTING		
SIP Parameter values	181:		
	History-Info: <sip:any prop<="" th=""><th></th><th>e=any value&gt;; index=1,</th></sip:any>		e=any value>; index=1,
	<sip:any pro<="" th=""><th>per URI&gt;; index=1.1</th><th></th></sip:any>	per URI>; index=1.1	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	NVITE
	ACM ←	← 1	81 Call Is Being Forwarded
	CPG ←	<b>←</b> 1	80 Ringing
		Apply post test routine	

TP number	TP_305_018	Reference	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 PI	CS 6.3.2/5		
Test Purpose name	Mapping of 180 Priva	acy header into CPG Notification	on subscription options	
Test Purpose	The Notification subs	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a CPG is sent.  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				
SIP Parameter values	History-Info: <si< th=""><th colspan="3">180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,  <sip:any proper="" uri="">; index=1.1</sip:any></sip:any></th></si<>	180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,  <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>		
Comments				
Message flows	ISUP	MGCF	Mg	
_	IAM ACM CPG	→ ← ← Apply post test r	→ INVITE ← 181 Call Is Being Forwarded ← 180 Ringing	

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

TP number	TP 305 019	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/5		
Test Purpose name	Mapping of 180 esca	ped Privacy header into CPG	Notification subscription options	
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, a CPG is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-16			
ISUP Parameter values		CPG: Call Diversion Information Notification subscription options=SUBS options		
SIP Parameter values	180: History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?<i="">Privacy=<i>Priv-value</i>&gt;; index=1.1</sip:any></sip:any>			
Comments	. , ,	-		
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 181 Call Is Being Forwarded	
	CPG	<b>←</b>	← 180 Ringing	
	Apply post test routine			

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	Reference	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 head	er into CPG Redirection nu	ımber restriction
Test Purpose	Ensure that on receipt of 180	(Ringing) containing a Priv	acy header, a CPG is sent.
	The Redirection number restri	ction is set according the I	Privacy header in the message
	body as indicated in table 6.2.	5-17	, c
ISUP Parameter values	CPG: Redirection number restriction= PRES_restr		
SIP Parameter values	180:		
	Privacy: Priv-value		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	181 Call Is Being Forwarded
	CPG ←	<b>←</b>	180 Ringing
	Apply post test routine		

TP number	TP_305_021	Reference	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 escaped Priva	cy header into CPG Redire	ction number restriction	
Test Purpose	Ensure that on receipt of 180 (			
	The Redirection number restric	ction is set according the es	caped Privacy header in the last	
	History entry as indicated in ta	ble 6.2.5-17		
ISUP Parameter values	CPG: Redirection number restriction= PRES_restr			
SIP Parameter values	180:	180:		
	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>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	NVITE	
	ACM ←	← 1	81 Call Is Being Forwarded	
	CPG ←	← 1	80 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	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-targete	ed-to-uri into ANM Redirection	number	
Test Purpose	Ensure that on receipt of 200 OK (INVITE) an ANM is sent. The History-Info entry following the last History-Info entry in the format <b>+'CC+NDC+SN'</b> containing a Reason header is			
	mapped into the Redirect	ion number:	_	
	<ul> <li>If 'CC' is equal the co</li> </ul>	ountry code where the SUT is	located:	
	Nature of address in	dicator is set to 'national (sign	nificant) number', the country code	
	is removed from the	digit string		
	<ul> <li>If the 'CC' is not equal</li> </ul>	al the country code where the	SUT is located:	
	Nature of address in	Nature of address indicator is set to 'international number' the digit string is used		
	unchanged.			
ISUP Parameter values	ANM: 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>			
	<sip:an< th=""><th>y proper URI&gt;; index=1.1</th><th></th></sip:an<>	y proper URI>; index=1.1		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b> →	INVITE	
	ACM	<b>+ +</b>	180 Ringing	
	ANM	<b>+ +</b>	200 OK INVITE	
		→	ACK	
	Apply post test routine			

TP number	TP_305_023	Reference	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 200 Privac	cy header into ANM Redirecti	ion number restriction	
Test Purpose	Ensure that on receipt	of 200 OK (INVITE) containi	ing a Privacy header, an ANM is sent.	
-	The Redirection numb	er restriction is set according	the Privacy header in the message	
	body as indicated in ta	body as indicated in table 6.2.5-18		
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr			
SIP Parameter values	200:			
	Privacy: <b>Priv-valu</b>	e		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
	ANM	<b>←</b>	← 200 OK INVITE	
			→ ACK	
		Apply post test i	routine	

TP number	TP_305_024	Reference	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 200 escaped Priva	cy header into ANM Redir	ection number restriction
Test Purpose	Ensure that on receipt of 200 C		
			scaped 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>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	180 Ringing
	ANM ←	<b>←</b>	200 OK INVITE
	→ ACK		
	Apply post test routine		

TP number	TP_305_025	Reference	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	3.2/5	
Test Purpose name	Mapping of 200 hi-targeted	-to-uri into CON Redirection	number
Test Purpose	Ensure that on receipt of 200 OK (INVITE) a CON 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:  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  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 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</sip:any></sip:any>		
Comments			
Message flows	ISUP IAM → ANM ←	=	Mg INVITE 200 OK INVITE ACK Ine

TP number	TP_305_026	Reference	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 200 Privacy header	rinto CON Redirection nur	mber restriction	
Test Purpose	Ensure that on receipt of 200 C			
	The Redirection number restric	tion is set according the P	rivacy 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>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ANM ←	<b>←</b>	200 OK INVITE	
	→ ACK			
	Apply post test routine			

TP number	TP_305_027	Reference	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 Priva	acy header into CON Redire	ction number restriction	
Test Purpose	Ensure that on receipt of 200			
	The Redirection number restri	ction is set according the es	caped Privacy header in the last	
	History entry as indicated in ta	ble 6.2.5-18		
ISUP Parameter values	ANM: Redirection number res	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>			
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b> Ⅱ	NVITE	
	ANM <b>←</b>	<b>←</b> 2	00 OK INVITE	
	→ 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	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	5	
Test Purpose name	Mapping of Redirecting numbe	r Address Signals	
Test Purpose	Ensure that on receipt of an 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 indicated in table 6.2.5-19		
ISUP Parameter values	IAM: Redirecting number     Nature of Address: NoA_value     Address Signals <any appropriate="" value="">     Redirection Information     Original called number</any>		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,     <sip:value number?reason="SIP;cause=any" of="" redirecting="">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:value></sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ INV	ITE
	Apply post test 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		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	7.4.6.2.3
			table 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/	<u> </u>	
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.2/5	
Test Purpose name	Mapping of Redirecting nu	mber Address presentati	on restricted indicator
Test Purpose	Ensure that on receipt of an 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 presentation restricted indicator: APRI_value     Redirection Information     Original called number		
SIP Parameter values	History-Info: <pre></pre>		
Comments			
Message flows	ISUP	MGCF	Mg
	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	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	2/5			
Test Purpose name	Mapping of Redirection Inforr	nation Redirecting indicator			
Test Purpose		Ensure that on receipt of an IAM containing a Redirecting number and a Redirection			
		VITE request is sent and a Histo			
		in the second last hi-targeted-to			
	mapped from the Redirecting	indicator of the Redirection Info	ormation as indicated in		
	table 6.2.5-21				
ISUP Parameter values	IAM: Redirection Information	n			
	Redirecting indicat	or=RDIND_value			
SIP Parameter values	INVITE:				
	History-Info:				
		Reason=SIP;cause=404>; index			
	<sip:any proper="" th="" uri?i<=""><th>Privacy=<b>PRIV_value</b>&amp;Reason=</th><th>SIP;cause=any&gt;; index=1.1,</th></sip:any>	Privacy= <b>PRIV_value</b> &Reason=	SIP;cause=any>; index=1.1,		
	<sip:any proper="" uri="">;</sip:any>	index=1.1.1			
Comments					
Message flows	ISUP	MGCF	Mg		
	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
VA_03	Call diverted AND Redirecting number APRI	history
	presentation restricted	

TP number	TP_305_031	Reference		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	D PICS 6.3.2/5		
Test Purpose name	Mapping of Redi	rection Information Redirec	tion counte	r
Test Purpose	Ensure that on receipt of an 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 Redirection	on Information ection counter= <b>RDCONT_</b> \	alue	
SIP Parameter values	INVITE: History-Info:	ENTRY_values		
Comments				
Message flows	ISUP	MGCF		Mg
	IAM	<b>→</b>	<b>→</b>	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	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>
		<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:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1,</sip:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:>
		<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	Reference		7.4.6.2.3	
				table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	·			
Selection criteria	PICS 6.3.1/1 ANI	D PICS 6.3.2/5			
Test Purpose name	Mapping of Redir	ection Information Origina	redirection reason	on	
Test Purpose	Ensure that on re	eceipt of an IAM containing	a Redirection nu	mber an Original called	
	number and a Re	edirection Information para	meter, an INVITE	request is sent. The Original	
	redirection reaso	n indicator <b>'unknown</b> ' of tl	ne Redirection Inf	ormation is mapped into the	
	cause parameter	value '404' of the first hi-ta	argeted-to-uri of t	he History-Info header in the	
	sent INVITE.			•	
ISUP Parameter values	IAM: Redirection	n Information			
	Origina	al redirection reason= <b>unk</b> ı	nown		
SIP Parameter values	INVITE:				
	History-Info:	<sip:any proper="" th="" uri?rea<=""><th>son=SIP;cause=4</th><th><b>104</b>&gt;; index=1,</th></sip:any>	son=SIP;cause=4	<b>104</b> >; index=1,	
		<sip:any proper="" th="" uri?rea<=""><th>son=SIP;cause=a</th><th>any&gt;; index=1.1,</th></sip:any>	son=SIP;cause=a	any>; index=1.1,	
	<sip:any proper="" uri="">; index=1.1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF		Mg	
	IAM	<b>→</b>	→ INV	'ITE	
	Apply post test routine				

Table 6.2.5-23: Void

TP number	TP_305_033	Reference	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 6.3.2/5			
Test Purpose name	Mapping of Redirection	Information Redirecting rea	ason		
Test Purpose	Ensure that on receipt of	of an IAM containing a Redi	rection number an Original called		
	number and a Redirecti	on Information parameter,	an INVITE request is sent. The		
	Redirecting reason indic	cator <b>REAS_value</b> of the R	edirection Information is mapped into		
	the cause parameter Ca	ause_value of the second I	ast hi-targeted-to-uri of the History-Info		
	header in the sent INVI	TE as indicated in table 6.2	.5-24		
ISUP Parameter values	IAM: Redirection Information				
	Redirecting r	eason = <b>REAS_value</b>			
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>				
	<sip:a< th=""><th>ny proper URI?Reason=SI</th><th>P;cause=<b>Cause_value</b>&gt;; index=1.1,</th></sip:a<>	ny proper URI?Reason=SI	P;cause= <b>Cause_value</b> >; index=1.1,		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	Apply post test routine				

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

TP number	TP_305_034	Reference	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 Called party nun	nber Address Signals			
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The Called party number is mapped into the last hi-targeted-to-uri of the History-Info header as indicated in table 6.2.5-25				
ISUP Parameter values	IAM: Called party number Nature of Address: NoA_value Address Signals				
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
_	IAM →	<b>→</b> IN\	/ITE		
	Apply post 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	e	7.4.6.2.3	
	11 _000_000			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 Origina	l called number Addre	ss Signals		
Test Purpose	Ensure that on receipt of an IAM containing an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The value of the first hi-targeted-to-uri Value of Original called number is mapped from the Original called number Address Signals as indicated in table 6.2.5-26				
ISUP Parameter values	IAM: Original called number  Nature of Address: NoA_value  Address Signals < Digits >				
SIP Parameter values	<	sip: <b>Original called nu</b> sip:any proper URI?R sip:any proper URI>;	eason=SIP;cause=a	2;cause=404>; index=1 any>; index=1.1	
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	→ 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	Re	ference	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 Origin	al called number	Address presentation	n restricted indicator	
Test Purpose	Ensure that on receipt of an 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 presentation restricted indicator of the Original called number as indicated in table 6.2.5-27				
ISUP Parameter values	IAM: Original called number Address presentation restricted indicator: APRI_value Address Signals <any appropriate="" value=""></any>				
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=404">;</sip:any>				
Comments					
Message flows	ISUP		MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	Apply post test 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	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	Latest History-Info header field entry containing a Reason header is mapped into			
	Redirecting number Nature of	address indicator			
Test Purpose	Ensure that on receipt of an IN				
	sent and a Redirecting number				
	parameter is present. The Nati	ure of address indicator of th	e Redirecting number is		
	mapped from the latest History	-Info header field entry in the f	ormat +'CC+NDC+SN'		
	containing a Reason header as	s indicated in table 6.2.5-28			
ISUP Parameter values	IAM: Redirecting number				
	Nature of address in	dicator= <b>NoA_value</b>			
SIP Parameter values	INVITE:				
	History-Info: <sip:any prop<="" th=""><th>per URI&gt;; index=1,</th><th></th></sip:any>	per URI>; index=1,			
	<sip:second< th=""><th>last entry URI?Reason=SIP;</th><th>cause=any&gt;; index=1.1,</th></sip:second<>	last entry URI?Reason=SIP;	cause=any>; index=1.1,		
	<sip:any prop<="" th=""><th>per URI&gt;; index=1.1.1</th><th></th></sip:any>	per URI>; index=1.1.1			
Comments					
Message flows	Mg MGCF ISUP				
_	INVITE → → IAM				
	100 Trying ←				
	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	Referen	ce	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 entry containing a Reason header is mapped into				
	Redirecting numb	per Address signal			
Test Purpose				story-Info header, an IAM is	
				nd a Redirection information	
	parameter is pres	sent. The <b>Address sigr</b>	al of the Redirectin	g number is mapped from the	
			e format +'CC+ND(	C+SN' containing a Reason	
	header as indicat	ed in table 6.2.5-29			
ISUP Parameter values	IAM: Redirecting number				
	Addres	ss signal <i>derived from t</i>	he second last Hist-	entry	
SIP Parameter values	INVITE:				
	History-Info:	<sip:any proper="" uri="">;</sip:any>	index=1,		
				;cause=any>; index=1.1,	
		<sip:any proper="" uri="">;</sip:any>	index=1.1.1		
Comments					
Message flows	Mg MGCF ISUP				
	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
		'+CC' is removed from the userpart digit string used in the Redirecting number Address signal
VA_02	CC is <b>not</b> equal to the country code of	'+' is removed from the userpart digit string used
	the country where MGCF is located	in the Redirecting number Address signal

TP number	TP_305_039	Reference	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/	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Latest History-Info header field entry containing a Reason header escaped Privacy header is mapped into Redirecting number Address presentation restricted indicator				
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 Redirecting number is mapped from the escaped Privacy header of the latest History-Info header field entry containing a Reason header as indicated in table 6.2.5-30				
ISUP Parameter values	IAM: Redirecting number				
	Address presentation	on restricted indicator=APRI_v	alue		
SIP Parameter values	INVITE:  History-Info: <sip:any <sip:any="" appropriate="" proper="" u="" uri="" uri?p="">;</sip:any>	rivacy= <b>PRIV_value</b> &Reason=	SIP;cause=any>; index=1.1,		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	100 Trying ←	•			
	Apply post test routine				

TP number	TP 305 040	Reference	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	Privacy header is map	Privacy header is mapped into Redirecting number Address presentation restricted			
	indicator				
Test Purpose			ning a History-Info header, an IAM is		
			number and a Redirection information		
			restricted indicator of the Redirecting		
	number is mapped fro	m the Privacy header of the	received INVITE request as indicated in		
	table 6.2.5-30				
ISUP Parameter values	IAM: Redirecting nu	mber			
	Address pro	esentation restricted indicato	r=APRI_value		
SIP Parameter values	INVITE:				
	Privacy: PRIV_val	ue			
	History-Info: <sip< th=""><th>:any appropriate URI&gt;; index</th><th><b>&lt;=1</b>,</th></sip<>	:any appropriate URI>; index	<b>&lt;=1</b> ,		
		:any proper URI?Reason=SI			
		:any proper URI>; index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	100 Trying	<b>←</b>			
	Apply post test routine				

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	7.4.6.3.2		
	11 _000_011	1.0.0.0.00	table 7.4.6.3.2.3		
TCC reference	DCTN CC/CDIV/		table 7.4.0.3.2.3		
TSS reference		PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5			
Test Purpose name	Escaped Privacy header is ma				
Test Purpose		Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is			
	sent and a Redirecting number				
	parameter is present. The Red	irecting indicator of the Redi	rection information is mapped		
	from the escaped Privacy head	der of the latest History-Info he	ader field entry containing a		
	Reason header in the received	INVITE request as indicated i	n table 6.2.5-31		
ISUP Parameter values	IAM: Redirection information				
	Redirecting indicato	r=RDIND_value			
SIP Parameter values	INVITE:				
	History-Info:				
	<sip:any appropriate="" th="" uf<=""><th>RI&gt;; index=1,</th><th></th></sip:any>	RI>; index=1,			
		ivacy=PRIV_value&Reason=\$	SIP;cause=any>; index=1.1,		
	<sip:any proper="" uri="">; i</sip:any>		• • • • • • • • • • • • • • • • • • • •		
Comments	to plany propor or any mason in the				
Message flows	Mg MGCF ISUP				
	INVITE → JAM				
100 Trying ←					
	Apply post test routine				

TP number	TP_305_042	Reference	7.4.6.3.2		
			table 7.4.6.3.2.3		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/5			
Test Purpose name	Privacy header is r	mapped into Redirection info	rmation Redirecting indicator		
Test Purpose	sent and a Redirect parameter is prese	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 Redirec	information ting indicator= <b>RDIND_value</b>	,		
SIP Parameter values	<	- <sip:any appropriate="" uri="">; i</sip:any>	n=SIP;cause=any>; index=1.1,		
Comments					
Message flows	Mg INVITE 100 Trying	MGC → ← Apply post t	→ IAM		

Table 6.2.5-31: 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 305 043	Reference	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	cause value is mapped into Re	direction information Redirection	ng reason	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 information is mapped from the cause parameter of the Reason header of the latest History-Info header field entry containing a Reason header in the received INVITE request as indicated in table 6.2.5-32			
ISUP Parameter values	IAM: Redirection information Original redirection reason=unknown/not available Redirecting reason=REAS_value			
SIP Parameter values	INVITE:  History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>			
Comments				
Message flows	Mg INVITE → 100 Trying ←	MGCF →	ISUP IAM	
	Apply post test routine			

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

	Cause_value	REAS_value
	Second last hi-targeted-to-uri	
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	Refe	rence	7.4.6.3.2
				table 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/			•
Selection criteria	PICS 6.3.1/1 ANI	D PICS 6.3.2/5		
Test Purpose name	Hi-index is mappe	ed into Redirection i	nformation Redirection	on counter
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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:	ction counter= <b>NDC</b>	ON1_value	
On Talameter values		ENTRY_values		
Comments				
Message flows	Mg MGCF ISUP			ISUP
	INVITE	<b>→</b>	-	<b>→</b> IAM
	100 Trying	<b>←</b>		
	Apply post test routine			r

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

	ENTRY_values	RDCONT_value
VA_01	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	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:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1.1,</sip:>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1.1</sip:>	

TP number	TP_305_045	Reference	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		
Test Purpose name	First History-Info header field	entry is mapped into Original c	alled number Nature of
	address indicator		
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting numbe		
	parameter is present. The Nat		
	mapped from the first History-	nfo header field entry in the fo	rmat +'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 in	ndicator= <b>NoA_value</b>	
SIP Parameter values	INVITE:		
	History-Info: <sip:first er<="" th=""><th>ntry URI&gt;; index=1,</th><th></th></sip:first>	ntry URI>; index=1,	
		per URI?Reason=SIP;cause=	any>; index=1.1,
	<sip:any pro<="" th=""><th>per URI&gt;; index=1.1.1</th><th></th></sip:any>	per URI>; index=1.1.1	
Comments			
Message flows	Mg	MGCF	ISUP
	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
		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	7.4.6.3.2	
			table 7.4.6.3.2.4	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	First History-Info h	eader field entry is mapped into	Original called Address signal	
Test Purpose	sent and a Redired parameter is prese	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 <b>+'CC+NDC+SN'</b> as indicated in table 6.2.5-35.		
ISUP Parameter values	Number	IAM: Original called Numbering Plan Indicator=ISDN (Telephony) numbering plan (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>			
Comments		,		
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test r	ISUP → IAM outine	

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

	First entry URI	NoA_value
VA_01	CC is equal to the country code of the country	'+CC' is removed from the userpart
	where MGCF is located AND the next ISUP	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	'+' is removed from the userpart
	country where MGCF is located	digit string used in the Original
		called number Address signal

TP number	TP 305 047	Reference	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		
Test Purpose name		r field entry escaped Privacy station restricted indicator	header is mapped into Original called
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 escaped Privacy header of the first History-Info header field entry as indicated in table 6.2.5-36		
ISUP Parameter values	IAM: Original called Address presentation restricted indicator=APRI value		
SIP Parameter values	INVITE:  History-Info: <sip:any appropriate="" uri?privacy="PRIV_value">; index=1,</sip:any>		
Comments			
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM
	Apply post test routine		utine

TP number	TP_305_048	Reference	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		
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 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 presentation restricted indicator=APRI value		
SIP Parameter values	INVITE:  Privacy: PRIV_value  History-Info: <sip:any appropriate="" uri="">; index=1,  <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,  <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:any>		
Comments			
Message flows	Mg INVITE → 100 Trying ←	MGCF →	ISUP IAM
	Apply post test routine		

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		7.4.6.3.3
	11 _000_010	110.0.0.00		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 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of ACM	Mapping of ACM Redirection number into 181 (Being forwarded) History-Info header		
Test Purpose				the Call diversion parameter is
-		ication a call diversion occurre		
	Redirection numb	er is mapped into the hi-targe	ted-to-uri in a	History-Info header containing
	one hi-entry in the	e sent 181 as indicated in table	e 6.2.5-37	-
ISUP Parameter values	ACM: Backward	call indicator		
		party statue='no indication'		
		otification=call is diverting		
	0 4 4 0	ion information		
		Redirection number		
		Nature of address indicator=NOA_value		
	Address signal <b>Digits</b>			
SIP Parameter values	181:			
		<sip:unknown@unknown.inva< th=""><th></th><th></th></sip:unknown@unknown.inva<>		
		<sip: last_hist_uri;cause<="" th=""><th>=any&gt;; index=</th><th>=1.1</th></sip:>	=any>; index=	=1.1
	OR			
	History-Info: <sip:unknown@unknown.invalid?reason=sip;cause=any>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=any>			
	<sip: last_hist_uri="">; index=1.1</sip:>			
Comments			_	IOUD
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	181 Being forward		<b>+</b>	ACM
		Apply post te	est routine	

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	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	6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of ACM Redirecting reparameter	eason into 181 (Being forwarde	ed) History-Info header cause		
Test Purpose	Ensure that on receipt of an AC				
	present as an indication a call of				
	diversion information Redirecting				
	hi-targeted-to-uri in a History-In	nfo header in the sent 181 as in	ndicated in table 6.2.5-38		
ISUP Parameter values	<b>ACM:</b> 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:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1</sip:derived>				
	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:derived from="" number="" redirection="">; index=1.1</sip:derived>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	181 Being forwarded ←	<b>←</b>	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	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/				
Test Purpose name	Mapping of ACM Redirecting re Reason header				
Test Purpose	Ensure that on receipt of an AC				
	present as an indication a call of				
	diversion information Redirecting				
	last hi-targeted-to-uri in a Histo	ry-Info header in the sent 181	as indicated in table 6.2.5-39		
ISUP Parameter values	<b>ACM:</b> Backward call indicator				
	Called party status=	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@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<pre><sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1</sip:derived></pre>				
	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:derived from="" number="" redirection="">; index=1.1</sip:derived>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	181 Being forwarded ←	<b>←</b>	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	7.4.6.3.3	
	000_00_	110101010	table 7.4.6.3.3.1,	
			table 7.4.6.3.3.3	
TSS reference	PSTN-SS/CDIV/		1000 7. 1.0.0.0.0	
Selection criteria	PICS 6.3.1/1 AND PICS	S 6.3.2/5		
Test Purpose name	Mapping of ACM Notific	cation subscription options r	no 181 (Being forwarded) is sent	
Test Purpose	Ensure that on receipt	of an ACM a Redirection nu	mber and the Call diversion parameter is	
			f the Call diversion information	
	Notification subscription	n options is set to <b>presentat</b>	tion not allowed no 181 (Being	
	forwarded) is sent			
ISUP Parameter values	ACM:			
	Generic notification=call is diverting			
	Redirection number			
	Call diversion in	Call diversion information		
	Notification subscription options=presentation not allowed			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
			← ACM	
		Apply post test routine		

TP number	TP_305_053	Reference	7.4.6.3.3
			table 7.4.6.3.3.1,
TSS reference	DOTH CO/CDIV/		table 7.4.6.3.3.3
	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	_	
Test Purpose name	Mapping of ACM Notification su Privacy header	ubscription options into 181 (B	eing forwarded) escaped
Test Purpose	Ensure that on receipt of an 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 Notification subscription options is mapped 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	ACM:  Generic notification=cal Redirection number Call diversion informatic Notification subscrip	G	
SIP Parameter values	181: History-Info: <sip:unknown@unknown.ir <sip:any="" proper="" th="" uri;cause:<=""><th>ıvalid&gt;; index=1, =any?Privacy=<b>PRIV_value</b> &gt;;i</th><th>ndex=1.1</th></sip:unknown@unknown.ir>	ıvalid>; index=1, =any?Privacy= <b>PRIV_value</b> >;i	ndex=1.1
Comments			
Message flows	Mg MGCF ISUP		
	INVITE →	<b>→</b>	IAM
	181 Being forwarded ←	<b>+</b>	ACM
	Apply post test routine		

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	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.4		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of CPG Redirection r	number into 181 (Being forward	led) History-Info header		
Test Purpose	Ensure that on receipt of a CP				
	number and the Call diversion				
	occurred, a 181 (Being forward				
	hi-targeted-to-uri in a History-I	nfo header in the sent 181 as i	ndicated in table 6.2.5-37		
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=ca	Generic notification=call is diverting			
	Call diversion information				
	Redirection number				
	Nature of address in	ndicator= <b>NOA_value</b>			
	Address signal <b>Digi</b>	ts			
SIP Parameter values	181:				
	History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<sip:last_hist_uri;cause=any>; index=1.1</sip:last_hist_uri;cause=any>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	180 Ringing ←	180 Ringing ← ← ACM			
	181 Being forwarded ←	· <b>←</b>	CPG		
		Apply post test routine			

TP number	TP_305_055	Reference	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 CPG Redirecting re	eason into 181 (Being forward	ed) History-Info header cause		
	parameter				
Test Purpose	Ensure that on receipt of a CP				
	number and the Call diversion				
	occurred, a 181 (Being forward				
	reason is mapped into the cau		rgeted-to-uri in a History-Info		
	header in the sent 181 as indic	ated in table 6.2.5-38			
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=cal	I is diverting			
		Redirection number			
	Call diversion information				
	Redirecting reason	=REAS_value			
SIP Parameter values	181:				
	History-Info:				
	<pre><sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid></pre>				
	<sip:derived acm;cause="Cause_value" from="" in="" number="" redirection="">; index=1.1</sip:derived>				
	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:derived from="" number="" redirection="">; index=1.1</sip:derived>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<del>-</del>	IAM		
	180 Ringing		ACM		
	181 Being forwarded ← CPG				
		Apply post test routine			

TP number	TP_305_056	Reference	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 CPG Redirecting re Reason header	eason into 181 (Being forward	ed) History-Info header		
Test Purpose	Ensure that on receipt of a 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	5-39		
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=cal	l is diverting			
	Redirection number				
	Call diversion information				
	Redirecting reason :	=REAS_value			
SIP Parameter values	181:				
	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:derived></pre>				
	or				
	History-Info:				
	<pre><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></pre>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	INVITE → IAM			
	180 Ringing ←	<b>+</b>	ACM		
	181 Being forwarded ←	<b>+</b>	CPG		
	Apply post test routine				

TP number	TP_305_057	Reference	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	2/5		
Test Purpose name	Mapping of CPG Notification s	subscription options no 181 (Be	ing forwarded) is sent	
Test Purpose		PG the Event indicator is set to		
	number and the Call diversion	n parameter is present as an inc	dication a call diversion	
		information Notification subscri	ption options is set to	
	presentation not allowed no	181 (Being forwarded) is sent		
ISUP Parameter values	CPG: Event=Progress	CPG: Event=Progress		
	Generic notification=call is diverting			
	Redirection number			
	Call diversion informat	ion		
	Notification subscri	Notification subscription options=presentation not allowed		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	→	IAM	
	180 Ringing	<b>+</b>	ACM	
		<b>←</b>	CPG	
		Apply post test routine		

TP number	TP_305_058	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.4	
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 CPG Notification Privacy header	subscription options into 181 (E	Being forwarded) escaped	
Test Purpose	Ensure that on receipt of a 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 Notification subscription options is mapped 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=call is diverting Redirection number Call diversion information Notification subscription options=NSO_value			
SIP Parameter values	181: History-Info: <sip:unkno< th=""><th>own@unknown.invalid&gt;; index=1 roper URI;cause=any?Privacy=l</th><th></th></sip:unkno<>	own@unknown.invalid>; index=1 roper URI;cause=any?Privacy=l		
Comments				
Message flows	Mg INVITE 180 Ringing 181 Being forwarded	MGCF  →  ←  ←  Apply post test routine	ISUP IAM ACM CPG	

TP number	TP_305_059	Reference	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 a CPG Alerting Redirection number into 180 (Ringing) History-Info header Redirecting reason is mapped into the <b>cause parameter</b>				
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) 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 180 as indicated in table 6.2.5-37 and the cause parameter value in the last entry is mapped from the received Redirecting reason as indicated in table 6.2.5-38				
ISUP Parameter values	ACM: Backward call indicator Called party status=no indication Optional backward call indicator In-band info or appropriate pattern is now available CPG: Event indicator=Alerting Redirection number Nature of address indicator=NOA_value Address signal Digits Call diversion information Redirecting reason =REAS_value				
SIP Parameter values	or History-Info: <sip:unknown@unknov< th=""><th>cause=<b>Cause_value</b>&gt;; index=</th><th></th></sip:unknown@unknov<>	cause= <b>Cause_value</b> >; index=			
Comments			·		
Message flows	Mg INVITE → 183 Session Progress ← 180 Ringing ←	<b>+</b>	ISUP IAM ACM CPG		

TP number	TP_305_060	Reference	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 6.3.2/9	5		
Test Purpose name	Mapping of a CPG Alerting Redirection number into 180 (Ringing) History-Info header			
	Redirecting reason in the first entry is mapped from a previous received ACM			
Test Purpose			'Alerting' a Redirection number	
	is present, a 180 (Ringing) is se			
	mapped into the last hi-targete			
	in table 6.2.5-37 and the cause		rom a previous received	
	Redirecting reason in an ACM	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			
	Redirecting reason =	=REAS_value		
		Redirection number		
	CPG: Event indicator=Alerting			
	Redirection number			
	Nature of address indicator=NOA_value			
	Address signal <b>Digits</b>			
SIP Parameter values	180:			
	History-Info:			
	<pre><sip:unknown@unknown.invalid;cause=cause_value>; index=1,</sip:unknown@unknown.invalid;cause=cause_value></pre>			
	<sip: last_hist_uri;<="" th=""><th>cause=any&gt;; index=1.1</th><th></th></sip:>	cause=any>; index=1.1		
	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: last_hist_uri;<="" th=""><th>cause=any &gt;; index=1.1</th><th></th></sip:>	cause=any >; index=1.1		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	181 Being forwarded ←	<b>←</b>	ACM	
	180 Ringing ←	<b>←</b>	CPG	
		Apply post test routine		

TP number	TP_305_061	Reference	7.4.6.3.3		
	11 _000_001	11010101100	table 7.4.6.3.3.1,		
			table 7.4.6.3.3.5		
TSS reference	PSTN-SS/CDIV/	<u> </u>	table 7.4.0.0.0.0		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of CPG Alerting Redirecti	on Number Restriction into 18	0 (Ringing) Privacy header		
Test Purpose	Ensure that on receipt of a CPG th	e Event indicator is set to 'Alei	rting' a Redirection Number		
	Restriction parameter is present, a	180 (Ringing) is sent. The Re	direction Number Restriction		
	parameter value is mapped into the	e Privacy header in the sent 18	80 as indicated in		
	table 6.2.5-41.	•			
ISUP Parameter	ACM: Backward call indicator	ACM: Backward call indicator			
values	Called party status=no i	ndication			
	Generic notification=call is	diverting			
	Call diversion information	3			
	Redirection number	Redirection number			
	CPG: Event indicator=Alerting				
	Redirection Number Restriction=PRES_restr				
SIP Parameter values	180:				
	History-Info: <sip:unknown@u< th=""><th>unknown.invalid&gt;; index=1,</th><th></th></sip:unknown@u<>	unknown.invalid>; index=1,			
	<sip:any proper<="" th=""><th>JRI?Privacy=<b>PRIV_value</b>;cau</th><th>se=any&gt;; index=1.1</th></sip:any>	JRI?Privacy= <b>PRIV_value</b> ;cau	se=any>; index=1.1		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	181 Being forwarded ←	<b>←</b>	ACM		
	180 Ringing ←	<b>←</b>	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	TP_305_062	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.6	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of ANM Redirection r	number into 200 OK History-In	fo header Redirecting reason	
	is mapped into the cause para			
Test Purpose	Ensure that on receipt of an ANM a Redirection number is present, a 200 OK (INVITE) is			
	sent. The Redirection number			
	hi-targeted-to-uri in a History-I			
	and the cause parameter value	ie is mapped from the receive	d Redirecting reason as	
	indicated in table 6.2.5-38			
ISUP Parameter values	ACM: Backward call indicator			
	Called party status=	subscriber free		
	ANM:			
	Generic notification=ca			
	Call diversion information			
	Redirecting reason	=REAS_value		
	Redirection number Nature of address indicator= <b>NOA_value</b>			
	Address signal <b>Digits</b>			
SIP Parameter values	200 OK:			
	History-Info:			
	<sip:unknown@unknov< th=""><th></th><th></th></sip:unknown@unknov<>			
	<sip:last_hist_uri;< th=""><th>cause=<b>Cause_value</b>&gt;; index=</th><th>:1.1</th></sip:last_hist_uri;<>	cause= <b>Cause_value</b> >; index=	:1.1	
	or			
	History-Info:			
	<sip:unknown@unknov< th=""><th>vn.invalid?Reason=SIP;cause</th><th>=Cause_value&gt;; index=1,</th></sip:unknown@unknov<>	vn.invalid?Reason=SIP;cause	=Cause_value>; index=1,	
	<sip:last_hist_uri>; index=1.1</sip:last_hist_uri>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	183 Session Progress ← ← ACM			
200 OK INVITE ← ANM				
	ACK -	•		
	Apply post test routine			

TP number	TP_305_063	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.6	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of ANM Redirection r			
	Redirecting reason is mapped			
Test Purpose	Ensure that on receipt of an ANM a Redirection number is 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-li			
	the cause parameter value is	mapped from a previous recei	ved Redirecting reason as	
10115 5	indicated in table 6.2.5-39			
ISUP Parameter values	CPG: Event information			
	ALERTING	n e e e		
	Generic notification=ca			
	Call diversion information			
	Redirecting reason	=REA5_value		
	Redirection number			
	Redirection number			
	Nature of address indicator= <b>NOA_value</b> Address signal <b>Digits</b>			
SIP Parameter values	200 OK:			
on randineter values	History-Info:			
	¬Istory-Inio. <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>			
	<sip: last_hist_uri;cause="Cause_valueany">; index=1.1</sip:>			
	or	, , , , , , ,		
	History-Info:			
		vn.invalid?Reason=SIP;cause=	=Cause_value>; index=1,	
	<sip: last_hist_uri:<="" th=""><th></th><th></th></sip:>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	183 Session Progress ← ← ACM			
	180 Ringing ← ← CPG			
	200 OK INVITE ← ← ANM			
	ACK →			
	Apply post test routine			

TP number	TP_305_064	Reference	7.4.6.3.3 table 7.4.6.3.3.1,	
			table 7.4.6.3.3.1,	
TSS reference	PSTN-SS/CDIV/	<u> </u>		
Selection criteria	PICS 6.3.1/1 AND PIC	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of ANM Redir	rection Number Restriction in	to 200 OK INVITE Privacy header	
Test Purpose	as an indication a call	Ensure that on receipt of an 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 180 as		
ISUP Parameter values	ACM: Generic notifica Call diversion ir Generic notifica Redirection nur ANM: Redirection Nur	nformation ition	ir	
SIP Parameter values	200: History-Info: <sip:< th=""><th colspan="3">_</th></sip:<>	_		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	181 Being forwarded	<b>←</b>	<b>←</b> ACM	
	180 Ringing	<b>←</b>	← CPG	
	200 OK INVITE ACK	<b>←</b> →	← ANM	
	, , , , ,	Apply post test re	outine	

TP number	TP_305_065	Reference	7.4.6.1	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	NOT PICS 6.3.2/5			
Test Purpose name	No mapping of Redirecting nun	nber, Original called number a	and Redirection Information	
Test Purpose	Ensure that on receipt of an 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 number Redirection Information Redirecting reason =REAS_value Original called number			
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ INV Apply post test routine	'ITE	

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	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	on number and Call diversion in	nformation	
Test Purpose	Ensure that on receipt of an A			
	the Redirecting reason is set to			
	an indication a call diversion o		and no History-Info header is	
	present. The call setup is not of			
ISUP Parameter values	ACM: Generic notification=ca	ACM: Generic notification=call is diverting		
	Redirection number			
	Call diversion information			
	Redirecting reason =REAS_value			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	180 Ringing ←	· <b>←</b>	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		7.4.8	
TSS reference	PSTN-SS/ECT/	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6				
Test Purpose name	A session is retrieved	when a notification 'call tra	nsfer, active	e' in a FAC was received and	
	the session is on hold				
Test Purpose	I-MGCF: A session is	on hold. Ensure that on red	ceipt of an F	AC message and the Generic	
		•	', a reINVITE	E is sent the a attribute in the	
	SDP is set to 'sendrec'				
ISUP Parameter values	FAC: Generic notifica				
SIP Parameter values	INVITE 2 SDP a=send				
	INVITE 3 SDP a=send	recv			
Comments					
Message flows	Mg	MGCF		ISUP	
	INVITE 1	<b>→</b>	<b>→</b>	IAM	
	100 Trying	<b>←</b>			
	180 Ringing	<b>←</b>	<b>←</b>	ACM	
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM	
	ACK	÷	•	AINIVI	
		-			
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)	
	200 OK (INVITE)	<b>→</b>		,	
	ACK	<b>←</b>			
	INVITE 3	<b>←</b>	<b>←</b>	FAC(call transfer, active)	
	200 OK (INVITE)	<b>`</b>	•	i Ao(caii transier, active)	
	ACK	<b>+</b>			
	Apply post test routine				

TP number	TP_306_002	Reference		7.4.8
TSS reference	PSTN-SS/ECT/	<b>'</b>		
Selection criteria	PICS 6.3.2/6			
Test Purpose name	A session is retrieved v	vhen a notification 'call transf	fer, alertir	ng' in a FAC was received and
Test Purpose	notification indicator is retrieved when a FAC i subsequently.	set to 'call transfer, alerting', s received the Generic notific	no reINV	
ISUP Parameter values	FAC: Generic notification	tion=transfer alerting		
SIP Parameter values	INVITE 2 SDP a=sendo INVITE 3 SDP a=sendo			
Comments				
Message flows	Mg	MGCF		ISUP
	INVITE 1	<b>→</b>	<b>→</b>	IAM
	100 Trying	<b>←</b>		
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b>	ANM
	INVITE 2 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	<b>←</b>	CPG(hold)
			<b>←</b>	FAC(call transfer, alerting)
	INVITE 3 200 OK (INVITE) ACK	<b>←</b> → <b>←</b>	<b>←</b>	FAC(call transfer, active)
		Apply post test re	outine	

TP number	TP_306_003	R	eference	7.4.8	
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 6.3.2/6				
Test Purpose name	A session is retrieved when a notification 'call transfer, active' in a CPG was received and				
	the session is on hold				
Test Purpose	O-MGCF: A session is	on hold. E	Insure that on receipt of	of an CPG message and the	
	Generic notification inc	dicator is s	et to 'call transfer, activ	/e', a reINVITE is sent the a	
	attribute in the SDP is	set to 'sen	drecv'		
ISUP Parameter values	CPG: Generic notifica	tion=trans	fer active		
SIP Parameter values	INVITE 2 SDP a=send				
	INVITE 3 SDP a=send	recv			
Comments					
Message flows	Mg		MGCF	ISUP	
	INVITE	<b>←</b>	<b>←</b>	IAM	
	100 Trying	→			
	180 Ringing	<b>→</b>	<b>→</b>	ACM	
	200 OK (INVITE)	<b>→</b>	<b>→</b>	ANM	
	ACK	<b>←</b>			
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)	
	200 OK (INVITE)	<b>→</b>			
	ACK	<del>(</del>			
	INDUITE O				
	INVITE 3	<del>(</del>	<b>←</b>	CPG(call transfer, active)	
	200 OK (INVITE)	<b>→</b>			
	ACK	<b>←</b>	Ample mant to at	·	
			Apply post test rout	ine	

TP number	TP_306_004	R	eference	7.4.8		
TSS reference	PSTN-SS/ECT/		GIGIGIOG	[7.4.0		
Selection criteria	PICS 6.3.2/6					
			fication lead transfer	alantination of CDC was received and		
Test Purpose name	the session is retrieved		incation call transfer, a	alerting' in a CPG was received and		
Took Dumage		-	thtit	-f ODO		
Test Purpose		O-MGCF: A session is on hold. Ensure that on receipt of an CPG message and the				
				ing', no reINVITE is sent. The		
		nen a FAC i	s received the Generi	c notification set to 'call transfer		
IOUD D	active' subsequently.		1 0			
ISUP Parameter values	CPG: Generic notific		er alerting			
SIP Parameter values	INVITE 2 SDP a=sen					
_	INVITE 3 SDP a=sen	drecv				
Comments						
Message flows	Mg		MGCF	ISUP		
	INVITE	<b>←</b>	+	IAM		
	100 Trying	<b>→</b>				
	180 Ringing	<b>→</b>	<b>→</b>	ACM		
	200 OK (INVITE)	<b>→</b>	<b>→</b>	ANM		
	ACK `	<b>←</b>				
	INVITE 2	<b>←</b>	<b>+</b>	CPG(hold)		
	200 OK (INVITE)	<b>→</b>	_	o. o()		
	ACK	<del>-</del>				
	AOR	•				
			<b>←</b>	CPG(call transfer, alerting)		
			•	CFG(call transfer, alerting)		
	INVITE 3	<b>←</b>	<b>←</b>	EAC(call transfer pative)		
		=	~	FAC(call transfer, active)		
	200 OK (INVITE)	<b>→</b>				
	ACK	<b>←</b>	A 1			
			Apply post test routi	ne		

TP number	TP_306_005	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 6.3.2/6		
Test Purpose name	FAC with generic notification 'c	all transfer, active' received, no	o mapping
Test Purpose	I-MGCF: Ensure that on receip coded as 'call transfer, active' a SIP side		
ISUP Parameter values	FAC: Generic notification=tran	nsfer active	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	IAM
	100 Trying	<b>←</b>	
	180 Ringing	+ +	ACM
	200 OK (INVITE)	<b>← ←</b>	ANM
	ACK	<b>→</b>	
		<b>+</b>	FAC(call transfer, active)
		Apply post test routine	

TP number	TP 306 006	Reference		7.4.8				
TSS reference	PSTN-SS/ECT/	1.0.0.0.00		,				
Selection criteria	PICS 6.3.2/6	PICS 6.3.2/6						
Test Purpose name	FAC with generic notifica	ation 'call transfer, alerting	g' received	, no mapping				
Test Purpose	I-MGCF: Ensure that on	I-MGCF: Ensure that on receipt of a FAC message and the Generic notification indicator is coded as 'call transfer, alerting' and the session is not on hold, no mapping occurs on the						
ISUP Parameter values	FAC: Generic notification	n=transfer alerting						
SIP Parameter values		<u> </u>						
Comments								
Message flows	Mg	MGCF		ISUP				
	INVITE	<b>→</b>	<b>→</b>	IAM				
	100 Trying	<b>←</b>						
	180 Ringing	<b>←</b>	+	ACM				
	200 OK (INVITE)	<b>←</b>	+	ANM				
	ACK '	<b>→</b>						
			<b>←</b>	FAC(call transfer, alerting)				
		Apply post tes	=	(Jan transfer, alerting)				

TP number	TP_306_007	Refere	ence	7.4.8		
TSS reference	PSTN-SS/ECT/	•				
Selection criteria	PICS 6.3.2/6					
Test Purpose name	CPG with generic no	tification 'call tran	sfer, active' receive	d, no mapping		
Test Purpose		I-MGCF: Ensure that on receipt of a CPG message and the Generic notification indicator is coded as 'call transfer, active' and the session is not on hold, no mapping occurs on the SIP side				
ISUP Parameter values	CPG: Generic notific	cation=transfer a	ctive			
SIP Parameter values						
Comments						
Message flows	Mg	N	IGCF	ISUP		
	INVITE 100 Trying	<b>→</b> ←	<b>→</b>	IAM		
	180 Ringing	<b>←</b>	<b>←</b>	ACM		
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b>	ANM		
		Арр	← (	CPG(call transfer, active)		

TD	TD 000 000	Deference	7.40	
TP number	TP_306_008	Reference	7.4.8	
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6			
Test Purpose name	CPG with generic notification 'c	call transfer, alerting' received	I, no mapping	
Test Purpose	I-MGCF: Ensure that on receipt	t of a CPG message and the	Generic notification indicator is	
	coded as 'call transfer, alerting'	and the session is not on ho	ld, no mapping occurs on the	
	SIP side		, 11 0	
ISUP Parameter values	CPG: Generic notification=trar	nsfer alerting		
SIP Parameter values		-		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→ IAI	M	
	100 Trying ←			
	180 Ringing ←	<b>←</b> AC	CM	
	· · · · · · · · · · · · · · · · · · ·			
	200 OK (INVITE)	<b>←</b> AN	IM	
	ACK →	- /		
		<b>←</b> CF	G(call transfer, alerting)	
	Apply post test routine			
		ייים וווויים וויים איליים אילים איליים איליי		

## 6.2.7 Call Waiting

TP number	TP_307_001	Reference	7.4.9			
TSS reference	PSTN-SS/CW/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	7				
Test Purpose name	Generic notification 'Call is a w	aiting call' in ACM is not interv	worked			
Test Purpose	Ensure that on receipt of an Al free', a 180 Ringing is sent. Th interworked					
ISUP Parameter values	ACM: BCI Called party Status	=subscriber free, Generic noti	fication=Call is a waiting call			
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	· -	IAM			
	100 Trying ←	-				
	180 Ringing ←	· <b>←</b>	ACM			
		Apply post test routine				

TP number	TP_307_002	Refe	rence		7.4.9	
TSS reference	PSTN-SS/CW/				•	
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/7				
Test Purpose name	Generic notification '(	Call is a waiting	call' in CPG is not	interv	vorked	
Test Purpose	and the Event indicat	An ACM called party status 'no indication' was received. Ensure that on receipt of a 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 pa CPG: Event indication					
SIP Parameter values	183 P-Early-Media:					
Comments						
Message flows	Mg		MGCF		ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
				<b>←</b>	ACM(no indication)	
	180 Ringing	<b>←</b>		<b>←</b>	CPG(ALERTING)	
		Ap	ply post test routi	ine	•	

## 6.2.8 Call Hold

TP number	TP_308_001	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/	•	·		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/9			
Test Purpose name	Hold and Retrieve requested for	rom the ISUP			
Test Purpose	Ensure that on receipt of a CP hold' in the confirmed dialogue SDP is set to 'sendonly'. Ensure that on receipt of a CP retrieval', an INVITE or UPDAT	e, an INVITE or UPDATE is se G message and the Generic r	nt. The media stream in the notification is set to 'Remote		
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
	Remote retrieval				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendo	nly			
	SDP 2				
Comments	a=sendre	ecv			
Message flows	Mg	MGCF	ISUP		
wessage nows	_				
	Establish a confirmed dialogue  CASE A				
	INVITE(SDP 1 = sendonly) 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	← CPG(hold)		
	CASE B UPDATE(SDP 1 = sendonly) 200 OK (UPDATE)	<b>←</b> →			
	CASE A INVITE(SDP 2 = sendrecv) 200 OK (INVITE) ACK	<b>←</b> <b>→</b>	← CPG(retrieve)		
	CASE B UPDATE(SDP 2 = sendrecv) 200 OK (UPDATE)	← → Apply post test routine			

TP number	TP_308_002	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR PICS	6.3.1/2) AND PICS 6.3.2/9	)			
Test Purpose name	Hold and Retrieve requ	ested from SIP in reINVITE	request			
Test Purpose		of an INVITE request in the				
	stream in the SDP is se	stream in the SDP is set to 'sendonly', a CPG message is sent the Generic notification				
	indicator is set to 'remo					
	•	of an INVITE request in the	•			
		et to 'sendrecv', a CPG mes	sage is sent the Gene	ric notification		
	indicator is set to 'remo					
ISUP Parameter values	CPG: Generic notificat					
	Remote hold					
	Remote retri	- · · · ·				
SIP Parameter values	INVITE/UPDATE:SDP					
		esendonly				
	SDP	<del>-</del>				
0	a=	=sendrecv				
Comments		MOOF		IOLID		
Message flows	Mg	MGCF		ISUP		
		Establish a confirm	_			
	INVITE(sendonly)	<b>→</b>	→ CPG(hold)			
	200 OK (INVITE)	<del>(</del>				
	ACK	<b>→</b>				
	NII/ITE/					
	INVITE(sendrecv) → CPG(retrieve)					
	200 OK (INVITE)	<del>(</del>				
	ACK	<b>&gt;</b>				
		Apply post test	routine			

TP number	TP_308_003	Reference		7.4.10	
TSS reference	PSTN-SS/HOLD/			11.1.1.1.	
Selection criteria	(PICS 6.3.1/1 OR PICS	6.3.1/2) AND PICS 6.3.2/9			
Test Purpose name		ested from SIP in UPDATE			
Test Purpose	Ensure that on receipt of an UPDATE request in the confirmed dialogue and the media stream in the SDP is set to 'sendonly', a 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				
ISUP Parameter values	indicator is set to 'remote retrieval'				
150P Parameter values	CPG: Generic notificat  Remote hold  Remote retri				
SIP Parameter values	INVITE/UPDATE:SDP				
	a=	sendonly			
	SDP 2				
	a=	sendrecv=			
Comments					
Message flows	Mg	MGCF		ISUP	
		Establish a confirme	ed dialogu	ie –	
	UPDATE(sendonly)	<b>→</b>	<b>→</b>	CPG(hold)	
	200 OK (UPDATE)	<b>←</b>			
	ACK →				
	UPDATE(sendrecv) 200 OK (UPDATE) ACK	<b>→</b> ← <b>→</b>	<b>→</b>	CPG(retrieve)	
		Apply post test i	routine		

TP number	TP_308_004	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	) 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 CPC					
	'remote hold' und the session was set on hold before, an INVITE or UPDATE request is					
	sent and the media stream is set to 'inactive'					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendonly					
	SDP 2					
	a=inactive	a=inactive				
Comments						
Message flows	Mg	MGCF	ISUP			
		stablish a confirmed dialogu				
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG(hold)			
	200 OK (INVITE)	<b>←</b>				
	ACK	<b>→</b>				
	CASE A					
	INVITE(SDP 2 = inactive)	<b>←</b>	← CPG(hold)			
	200 OK (INVITE)	<b>→</b>				
	ACK	<b>←</b>				
	CASE B	_				
	UPDATE(SDP 2 = inactive)	<del>-</del>				
	200 OK (UPDATE)	<b>→</b>				
		Apply post test routine				

TD	TD 000 005	Deference	7.4.40			
TP number	TP_308_005	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/9				
Test Purpose name	Hold requested from both ends	s, session inactive received				
Test Purpose	The session is already set on h	old. Ensure that on receipt of a	an INVITE request and the			
	media stream in the SDP is set to 'inactive', a CPG message is sent and the Notification					
	ndicator is set to 'remote hold'					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendor	nly				
	SDP 2					
	a=inactive	a=inactive				
Comments						
Message flows	Mg	MGCF	ISUP			
		stablish a confirmed dialogue	e			
	CASE A	5				
	INVITE(SDP 1 = sendonly)	<b>←</b>	← CPG(hold)			
	200 OK (INVITE)	<b>→</b>	(,			
	ACK	<del>-</del>				
	7.010	•				
	CASE B					
	UPDATE(SDP 1 = sendonly)	<b>←</b>				
		<b>→</b>				
	200 OK (UPDATE)	7				
	INIVITE (ODD O in a stire)		<b>&gt;</b> ODO(/1-/)			
	INVITE(SDP 2 = inactive)	<b>→</b>	→ CPG(hold)			
	200 OK (INVITE)	<del>&lt;</del>				
	ACK	<b>→</b>				
		Apply post test routine				

TP number	TP_308_006	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1	/2) AND PICS 6.3.2/9				
Test Purpose name		inactive, Retrieve requested from	SIP			
Test Purpose	receipt of an INVITE request message is sent and the Ger	first from SIP as well as second and the media stream in the SDF neric notification indicator is set to	P is set to 'recvonly', a CPG			
ISUP Parameter values	CPG 1: Generic notificatio	n				
	Remote hold					
	CPG 2: Generic notification					
	Remote retriev	/al				
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=send	only				
	SDP 2	i				
	a=inact SDP 3	ive				
	a=recvonly					
Comments	u=100V	51119				
Message flows	Mg	MGCF	ISUP			
		Establish a confirmed dialogue				
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG 1 (hold)			
	200 OK (INVITE)	<b>←</b>	- ( )			
	ACK	<b>→</b>				
	CASE A					
	INVITE(SDP 2 = inactive)	<b>←</b>	← CPG 1 (hold)			
	200 OK (INVITE)	<b>→</b>				
	ACK	<b>←</b>				
	CASE B					
	UPDATE(SDP 2 = inactive)	<b>←</b>				
	200 OK (UPDATE)	<b>→</b>				
	INIVITE (CDD 2 - TO DISTRICT	_	CDC 2 (retrieva)			
	INVITE(SDP 3 = recvonly)	<b>→</b>	→ CPG 2 (retrieve)			
	200 OK (INVITE) ACK	<b>←</b> →				
	ACK	<u>-</u>				
		Apply post test routine				

TP number	TP_308_007	Reference	7.4.10				
TSS reference	PSTN-SS/HOLD/	•	•				
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/9					
Test Purpose name	First hold from SIP. Session in	First hold from SIP. Session inactive, Retrieve requested from ISUP					
Test Purpose	The session is set on hold at f	irst from SIP as well as sec	cond from ISUP. Ensure that on				
			ndicator is set to 'remote retrieval',				
		st is sent and the media str	eam in the SDP I 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=recvor	าเง					
Comments		МООГ	IOLID				
Message flows	Mg	MGCF	ISUP				
		establish a confirmed dia	_				
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG(hold)				
	200 OK (INVITE)	<del>(</del>					
	ACK	<b>→</b>					
	CASE A						
	CASE A		<b>4</b> ODO(  11)				
	INVITE(SDP 2 = inactive)	<del>(</del>	← CPG(hold)				
	200 OK (INVITE)	<b>→</b>					
	ACK	•					
	CASE D						
	CASE B						
	UPDATE(SDP 2 = inactive)	<b>←</b> →					
	200 OK (UPDATE)	7					
	CASE A						
		<b>←</b>	← CPG(retrieve)				
	INVITE(SDP 3 = recvonly)	<b>→</b>	← CPG(retrieve)				
	200 OK (INVITE)	<del>7</del> ←					
	ACK	~					
	CASE B						
		_					
	UPDATE(SDP 3 = recvonly)	<b>←</b> →					
	200 OK (UPDATE)	_					
		Apply post test routing	I <del>U</del>				

TP number	TP 308 008	Reference	7.4.	10	
TSS reference		Reference	7.4.	10	
	PSTN-SS/HOLD/	(a) AND DIGG 6 6 6 6 (a)			
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/				
Test Purpose name	First hold from ISUP. Session inactive, Retrieve requested from SIP				
Test Purpose	The session is set on hold at first from ISUP as well as second from SIP. Ensure that on				
	receipt of an INVITE request a				
	message is sent and the Generic notification indicator is set to 'remote retrieval'				
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				
	a=recvonly				
Comments		•			
Message flows	Mg	MG	CF	ISUP	
		Establish a confirme	ed dialogue		
	CASE A				
	INVITE(SDP 1 = sendonly)	<b>←</b>	<b>←</b>	CPG(hold)	
	200 OK (INVITE)	÷	•	Of O(floid)	
	ACK	<del>-</del>			
	ACK	~			
	0405.0				
	CASE B	_			
	UPDATE(SDP 1 = sendonly)	<b>←</b>			
	200 OK (UPDATE)	<b>→</b>			
	INVITE(SDP 2 = inactive)	<b>→</b>	<b>→</b>	CPG(hold)	
	200 OK (INVITE)	<b>←</b>			
	ACK	<b>→</b>			
	INVITE(SDP 3 = recvonly)	<b>→</b>	<b>→</b>	CPG(retrieve)	
	200 OK (INVITE)	<del>(</del>		` '	
	ACK	<b>→</b>			
		Apply post test	routine		
	1	ppij poot toot			

TP number	TP_308_009	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/	•				
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/9				
Test Purpose name	First hold from ISUP. Session	inactive, Retrieve requested f	rom ISUP			
Test Purpose	The session is set on hold at fi	rst from ISUP as well as seco	and from SIP. Ensure that on			
			cator is set to 'remote retrieval',			
		t is sent and the media strean	n in the SDP is set to 'recvonly'			
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
		a=sendonly				
	SDP 2					
	a=inactiv	e				
	SDP 3					
Comments	a=recvor	шу				
Message flows	Mg	MGCF	ISUP			
Wessage nows		stablish a confirmed dialog				
	CASE A	stabilish a committed dialog				
	INVITE(SDP 1 = sendonly)	<b>←</b>	← CPG(hold)			
	200 OK (INVITE)	<b>→</b>	Cr S(noid)			
	ACK	<del>_</del>				
	/ CIK	•				
	CASE B					
	UPDATE(SDP 1 = sendonly)	<b>←</b>				
	200 OK (UPDATE)	<b>→</b>				
		-				
	INVITE(SDP 2 = inactive)	<b>→</b>	→ CPG(hold)			
	200 OK (INVITE)	<b>←</b>	( )			
	ACK	<b>→</b>				
	CASE A					
	INVITE(SDP 3 = recvonly)	<b>←</b>	← CPG(retrieve)			
	200 OK (INVITE)	<b>→</b>	` '			
	ACK	<b>←</b>				
	CASE B					
	UPDATE(SDP 3 = recvonly)	<b>←</b>				
	200 OK (UPDATE)	<b>→</b>				
		Apply post test routine				

TP number	TP_308_010		Reference		7.4.10.2			
TSS reference			Ittororom		7.4.10.2			
	PSTN-SS/HOLD/		(0) 1115 5100 0 0					
Selection criteria	(PICS 6.3.1/1 OR P	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/9 AND PICS 6.3.6/1						
Test Purpose name	CPG hold received	before ar	n dialogue was estal	olished	UPDATE is sent in early dialogue			
Test Purpose	Ensure that on rece	ipt of a C	PG message and th	e Gene	eric notification indicator is set to			
-	'remote hold' before	an early	dialogue is establis	hed. th	e UPDATE request indicating the			
					ing a 180 Ringing is established.			
	The media stream in							
ISUP Parameter values	CPG: Generic notif		io dot to defiderity	maioati	ing the hold state			
130F Faraineter values								
010 0	Remote I	1010						
SIP Parameter values	UPDATE: SDP							
	a=ser	ndonly						
Comments	A CPG is received a	after an A	.CM was sent.					
Message flows	ISUP		MGCF		Mg			
	IAM	<b>→</b>	Start Ti/w2	→	INVITE			
			• tait ::, ::=	<del>-</del>	100 Trying			
	ACM	<b>←</b>	Timeout Ti/w2	•	100 Trying			
	ACIVI	_	Timeout Ti/wz					
	CPG(hold)	→						
				<b>←</b>	180 Ringing			
				<b>→</b>	UPDATE(sendonly)			
				<b>←</b>	200 OK (UPDATE)			
			Apply post tes	_	,			
			Apply post les	st routi	IIC			

TP number	TP_308_011		Reference	7.4.10.2	
TSS reference	PSTN-SS/HOLD/				
Selection criteria	(PICS 6.3.1/1 OR PICS	S 6.3.1/2	) AND PICS 6.3.2/9 AN	D PICS 6.3.6/1	
Test Purpose name	CPG hold received bef dialogue	fore an d	ialogue was established	UPDATE is sent in confirmed	
Test Purpose	Ensure that on receipt of a 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 set to sendonly indicating the hold state				
ISUP Parameter values	CPG: Generic notifica Remote hole				
SIP Parameter values	INVITE/UPDATE:SDP				
	a	=sendor	ıly		
Comments					
Message flows	ISUP	_	MGCF	Mg	
	IAM	<b>→</b>	<del>}</del>	INVITE 100 Trying	
	CPG(hold)	<b>→</b>			
	CON	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK	
	CASE A				
			→ ← →	INVITE(sendonly) 200 OK (INVITE) ACK	
	CASE B				
			<b>→</b>	UPDATE(sendonly) 200 OK (UPDATE)	
			Apply post test rout		

TP number	TP_308_012	Ref	erence	7.4.10.2		
TSS reference	PSTN-SS/HOLD/			•		
Selection criteria	(PICS 6.3.1/1 OR F	PICS 6.3.1/2) AN	D PICS 6.3.2/9 AND	PICS 6.3.6/1		
Test Purpose name	CPG hold received	after several ea	rly dialogues was es	tablished UPDATE is sent on the		
	last established ear	last established early dialogue				
Test Purpose				eipt of a CPG message and the		
	Generic notification	indicator is set t	to 'remote hold', an l	JPDATE request is sent on the		
	latest established e	arly dialogue				
ISUP Parameter values	CPG: Generic noti	fication				
	Remote	hold				
SIP Parameter values	180 1: To: <approp< th=""><th></th><th></th><th></th></approp<>					
	180 1: To: <approp< th=""><th>riate URI&gt;; tag=</th><th>2</th><th></th></approp<>	riate URI>; tag=	2			
	UPDATE: To: <app< th=""><th></th><th></th><th></th></app<>					
Comments			e From tag are equal	l. The different dialogues can be		
		distinguished by the To tag				
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	<b>←</b>	180 Ringing 1		
	← 180 Ringing 2					
	CPG(hold) → UPDATE 2 (sendonly)					
	, ,		<b>←</b>	200 OK (UPDATE)		
		Aj	oply post test routi	ne		

TP number	TP_308_013		Reference	7.4.10.2		
TSS reference	PSTN-SS/HC	)LD/		•		
Selection criteria	(PICS 6.3.1/1	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/9 AND PICS 6.3.6/1				
Test Purpose name	An UPDATE	(hold) is repeated	in the early dialogue aft	er SDP offer answer exchange		
Test Purpose	a new SDP, a	an UPDATE reque		session was set on hold indicating stream is set to 'sendonly' to		
IOUD D		evious held state				
ISUP Parameter values		ric notification mote hold				
SIP Parameter values	INVITE: SDP1 UPDATE 1: SDP a=sendonly UPDATE 2: SDP 2					
Comments						
Message flows	ISUI	•	MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE(SDP1)		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	CPG(hold)	<b>→</b>	<b>→</b>	UPDATE 1 (sendonly) 200 OK (UPDATE)		
			<b>←</b> →	UPDATE 2 (SDP2) 200 OK (UPDATE)		
			<b>→</b>	UPDATE 1 (sendonly) 200 OK (UPDATE)		
			Apply post test rout	ine		

TP number	TP_308_014	Reference	7.4.10.2				
TSS reference	PSTN-SS/HOLD/	=111=1					
		(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/9 AND PICS 6.3.6/1					
Selection criteria		,					
Test Purpose name	An UPDATE (hold) is sent after						
Test Purpose		An early dialogue is established and set on hold. Ensure that on receipt of a 180 Ringing					
	establish a new early dialogue, an UPDATE request is sent on this dialogue and the media						
		stream is set to 'sendonly'					
ISUP Parameter values	CPG: Generic notification						
	Remote hold	Remote hold					
SIP Parameter values	180 1: To: <appropriate uri="">; tag=1</appropriate>						
	180 1: To: <appropriate uri="">; tag=2</appropriate>						
	UPDATE 2: To: <appropriat< th=""><th>e URI&gt;; tag=2</th><th></th></appropriat<>	e URI>; tag=2					
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
	ACM ←	<b>←</b>	180 Ringing 1				
			3 3				
	CPG(hold) →	<b>→</b>	UPDATE 1 (sendonly)				
	2. 3(1.0.0)	<b>É</b>	200 OK (UPDATE)				
	200 OK (OF DATE)						
	← 180 Ringing 2						
	← 180 Ringing 2						
		<b>→</b>	LIDDATE 2 (condents)				
			UPDATE 2 (sendonly)				
		<b>+</b>	200 OK (UPDATE)				
		Apply post test routing	ne				

TP number	TP_308_015	F	Reference		7.4.10.2		
TSS reference	PSTN-SS/HOLD/						
Selection criteria	(PICS 6.3.1/1 OR	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/9 AND PICS 6.3.6/1					
Test Purpose name	An INVITE or UPD	ATE (hold cor	ndition) is sent afte	er 200	OOK INVITE was received when a		
	CPG (hold) was re						
Test Purpose					ue. Ensure that on receipt of a 200		
					VITE or UPDATE request is sent		
	and the media stre		endonly' indicating	g the	held state		
ISUP Parameter values	CPG: Generic no	tification					
	Remote						
SIP Parameter values	INVITE/UPDATE 2						
		a=send	only				
Comments							
Message flows	ISUP		MGCF		Mg		
	IAM	<b>→</b>		<b>→</b>	INVITE		
	ACM	<b>←</b>		<b>←</b>	180 Ringing		
	CPG(hold)	<b>→</b>		<b>→</b>	UPDATE(sendonly)		
				<b>←</b>	200 OK (UPDATE)		
	ANM	<b>←</b>		<b>←</b>	200 OK (INVITE)		
				<b>→</b>	ACK		
	CASE A			<b>→</b>	INVITE 2 (sendonly)		
				<b>←</b>	200 OK (INVITE)		
				<b>→</b>	ACK		
	CASE B			<b>→</b>	UPDATE 2 (sendonly)		
				<b>←</b>	200 OK (UPDATE)		
			Apply post test	routi	,		

TD mumb on	TD 200 040	Deference	7.4.40
TP number	TP_308_016	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/9 AND PICS 6.3.6/1		
Test Purpose name	'sendonly' and 'sendrecv' received from the terminating 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 CPG message is sent and the Generic notification indicator is set to		
	'remote hold'.		
	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream		
	is already set on hold the media stream is set to 'sendrecv' in the received UPDATE, a		
	CPG message is sent and the Generic notification indicator is set to 'remote retrieval'		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg I
	IAM →	<b>→</b>	NVITE
		<b>←</b> 1	00 Trying
	ACM ←		80 Ringing
			5 ·gg
	CPG(hold) ←	<b>←</b> (	JPDATE(sendonly)
	Or G(riola)		200 OK (UPDATE)
		7 2	OU OR (OF DATE)
	CPG(retrieve)	<b>←</b> \	JPDATE(sendrecv)
			200 OK (UPDATE)
	· · ·		
	Apply post test routine		

TP number	TP_308_017	Reference		7.4.2			
TSS reference	PSTN-SS/HOLD/						
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3	3.1/2) AND PICS 6.3.2/9 ANI	) PIC	S 6.3.6/1			
Test Purpose name	'sendonly' and 'sendrecv' re	eceived from the originating	SIP us	ser 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 CPG message is sent and the Generic notification indicator is set to 'remote hold'.					
	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream is set to 'sendonly' the session is already set on hold, a CPG message is sent and the Generic notification indicator is set to 'remote retrieval'						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF		ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	UPDATE(sendonly) 200 OK (UPDATE)	<b>→ ←</b>	<b>→</b>	CPG(hold)			
	UPDATE(sendrecv) 200 OK (UPDATE)	<b>→</b>	<b>→</b>	CPG(retrieve)			
		Apply post test rout	ine				

TP number	TP_308_018	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/	-	•		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/9 AND	PICS 6.3.6/1		
Test Purpose name	'hold' and 'retrieve' received fro				
Test Purpose	Ensure that on receipt of a CPG message and the Generic notification indicator is set to 'remote hold' in the early dialogue, an UPDATE request is sent and the mediastream is set to 'sendonly'.  Ensure that on receipt of a CPG message and the Generic notification indicator is set to 'remote retrieval' and the session is already set on hold, an UPDATE request is sent and the media stream is set to 'sendrecv'				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	CPG(hold) →	<b>→</b> ←	UPDATE(sendonly) 200 OK (UPDATE)		
	CPG(retrieve) →	<b>→</b> ←	UPDATE(sendrecv) 200 OK (UPDATE)		
		Apply post test routing	e		

#### 6.2.9 Call Completion on busy subscriber

TP number	TP_309_001	Reference	7.4.11
TSS reference	PSTN-SS/CCBS/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/2	10	
Test Purpose name	The diagnostic field is not inter-	vorked	
Test Purpose	Ensure that on receipt of an RE		
	to 'CCBS possible', a final SIP	response 486 Busy Here is s	sent no indication of CCBS
	facility is present		
ISUP Parameter values	REL: Cause indicator CCBS p	oossible indicator=CCBS pos	ssible
SIP Parameter values			
Comments	The CCBS possible indicator is	contained in the diagnostic	field of the Cause indicator
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	486 Busy Here ←	<del>(</del>	REL(17)
	ACK →	<b>→</b>	RLC

# 6.2.10 Completion of Calls on No Reply (CCNR)

TP number	TP_310_001	Reference	7.4.12
TSS reference	PSTN-SS/CCNR/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/11	
Test Purpose name	CCNR possible indication re-	ceived in an ACM, discarded	
Test Purpose	Ensure that on receipt of an	ACM and a CCNR possible ind	icator is present the value set
	to 'CCNR possible', a 180 Ri	nging is sent without indication	of CCNR facility
ISUP Parameter values	ACM: BCI called party statu	s indicator=subscriber free, CC	CNR Possible Indicator=CCNR
	possible		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b> →	IAM
	100 Trying	<del>(</del>	
	180 Ringing	<del>(</del>	ACM
		Apply post test routine	

TP number	TP_310_002	Reference	7.4.12				
TSS reference	PSTN-SS/CCNR/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	11					
Test Purpose name	CCNR possible indication rece	ived in an CPG, discarded					
Test Purpose	Ensure that on receipt of an CF						
	'CCNR possible', a 180 Ringing						
ISUP Parameter values		ACM: BCI called party status indicator=no indication, oBCI=inband info available					
	CPG: Event indicator= ALER1	ING, CCNR Possible Indicator	r=CCNR possible				
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE →	<b>→</b>	IAM				
	100 Trying ←						
		<b>←</b>	ACM(no indication)				
	180 Ringing ←	<b>←</b>	CPG				
		Apply post test routine					

# 6.2.11 Terminal Portability (TP)

TP number	TP 311 001	Reference	7.4.13
TSS reference	PSTN-SS/TP/		•
Selection criteria	PICS 6.3.2/12		
Test Purpose name	SUS user initiated is mapped in	nto an reINVITE SDP sendonl	у
Test Purpose	Ensure that on receipt of an SI	JS message and the Suspend	/Resume indicator is set to
	'ISDN subscriber initiated', a re	INVITE is sent and the media	stream indicated in the SDP is
	set to 'sendonly'		
ISUP Parameter values	SUS: Suspend/Resume		
	ISDN subscriber init	iated	
SIP Parameter values	INVITE: SDP		
	a=sendonly		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	180 Ringing ←	<b>←</b>	ACM
	200 OK (INVITE)	<b>←</b>	ANM
	ACK →		AUNIVI
	INVITE(sendonly)	<b>←</b>	SUS(user)
	200 OK (INVITE) →		, <i>,</i>
	ACK		
		Apply post test routine	

TP number	TP 311 002		Reference		7.4.13	
TSS reference	PSTN-SS/TP/		11010101100		7.1.10	
Selection criteria	PICS 6.3.2/12					
Test Purpose name		nanned i	nto an reINVITE SDP s	endred	CV	
Test Purpose					o 'ISDN subscriber initiated'	
10011 41.000					nd the Suspend/Resume	
					ent and the media stream	
	indicated in the SDP is					
ISUP Parameter values	RES: Suspend/Resu	me				
	ISDN subso	criber init	tiated			
SIP Parameter values	INVITE: SDP					
	a=send	recv				
Comments						
Message flows	ISUP		MGCF		Mg	
	IAM	<b>→</b>	<del>)</del>		/ITE	
			+		) Trying	
	ACM	<b>←</b>	<del>(</del>	180	) Ringing	
		_	_			
	ANM	<b>←</b>	<del>(</del>		OK (INVITE)	
			<del>)</del>	AC	K	
	INVITE(sendonly)	<b>←</b>	<b>+</b>	. 011	S(user)	
	200 OK (INVITE)	<b>→</b>		30	S(user)	
	ACK	<del>-</del>				
	ACV &					
	INVITE(sendrecv)	<b>←</b>	+	• RF	S(user)	
	200 OK (INVITE)	÷	•		<b>C</b> (400.)	
	ACK	É				
		=	Apply post test rou	itine		

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

TP number	TP_312_001	Reference	7.4.14			
TSS reference	PSTN-SS/CONF/		1			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/13				
Test Purpose name		notification 'conference establis	shed'			
Test Purpose	A session at the I-MGCF is in	A session at the I-MGCF is in the confirmed state and not set on hold. Ensure that on receipt of a CPG message the Generic notification indicator is set to 'Conference				
ISUP Parameter values	CPG: Generic notification					
	Conference est	Conference established				
SIP Parameter values						
Comments	This state is applicable for CC	NF and 3PTY				
Message flows	Mg	MGCF	ISUP			
	INVITE -	<b>→</b>	IAM			
	100 Trying	<del>-</del>				
	180 Ringing	<del>+</del>	ACM			
	()	÷	ANM			
		← Apply post test routine	CPG			

TP number	TP_312_002	Reference	1	7.4.14
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/13		
Test Purpose name	O-MGCF: Session r	ot on hold, notification	'conference	established'
Test Purpose	A session at the O-N	MGCF is in the confirm	ed state and	not set on hold. Ensure that on
_	receipt of a CPG me	essage the Generic not	tification indic	cator is set to 'Conference
	established' no reIN	VITE is sent		
ISUP Parameter values	CPG: Generic notif	ication=		
	Confe	erence established		
SIP Parameter values				
Comments	This state is applica	ble for CONF and 3PT	Υ	
Message flows	ISUP	MGC	F	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)
			<b>→</b>	ACK
		_		
	CPG	<b>→</b>		
		Apply po	est test routi	ine

TP number	TP_312_003	Reference	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 on hold, no	tification 'conference establishe	ed'	
Test Purpose	A session at the I-MGCF is in	the confirmed state and set or	n hold. Ensure	that on receipt of
	a CPG message the Generic	notification indicator is set to 'C	Conference est	ablished' a
	reINVITE request is sent the '	a' attribute in the SDP is set to	'sendrecv'	
ISUP Parameter values	CPG 1: Generic notification	1		
	Remote hold			
	CPG 2: Generic notification	1		
	Conference est	ablished		
SIP Parameter values	INVITE 1: SDP			
	a=sendonly			
	INVITE 2: SDP			
	a=sendrecv			
Comments	This state is applicable for 3P			
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
	180 Ringing	<b>←</b>	<b>←</b> ACM	
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM	
	ACK	<b>→</b>	AINIVI	
	ACK	•		
	INVITE 1 (sendonly)	<b>←</b>	← CPG 1	
	200 OK INVITE (recvonly)	<del>}</del>	CFG I	
	ACK	<del>-</del>		
	ACK	~		
	INIVITE 2 (condragy)	<b>←</b>	← CPG 2	
	INVITE 2 (sendrecv)	<del>-</del>	CPG 2	
	200 OK INVITE (sendrecv)	<b>7</b> ←		
	ACK	<u>-</u>		
		Apply post test routine		

TP number	TP_312_004	Reference		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 ho	old, notification 'conference	estal	blished'		
Test Purpose	A session at the O-MGC	F is in the confirmed state	and s	set on hold. Ensure that on receipt		
				et to 'Conference established' a		
		t the 'a' attribute in the SDF	o is se	et to 'sendrecv'		
ISUP Parameter values	CPG 1: Generic notific					
	Remote he	* . * .				
	CPG 2: Generic notific	cation				
		ce established				
SIP Parameter values	INVITE 1: SDP					
	a=sendon	ly				
	INVITE 2: SDP					
	a=sendred					
Comments	This state is applicable for					
Message flows	ISUP	MGCF		Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	1.014		<del>(</del>	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	0.000		,	000 01/ (INI) (ITE)		
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)		
			7	ACK		
	000.4	•		INDUITE 4 (condend)		
	CPG 1	<b>→</b>	<b>→</b>	INVITE 1 (sendonly)		
			<del>(</del>	200 OK INVITE (recvonly)		
	→ ACK					
	DD0 0					
	CPG 2 → INVITE 2 (sendrecv)					
			<del>-</del>	200 OK INVITE (sendrecv)		
		Amply most toot	<b>→</b>	ACK		
		Apply post test i	outir	ie		

TP number	TP 312 005	Reference	7.4.14
TSS reference	PSTN-SS/CONF/	1.0.0.0.00	17.11.1
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	12	
Test Purpose name	I-MGCF: Session not on hold,		
Test Purpose	A session at the I-MGCF is in t		
	established. Ensure that on red		eneric notification indicator is
	set to 'Conference disconnecte	ed' 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	Mg	MGCF	ISUP
	INVITE ->	<b>→</b>	IAM
	100 Trying ←	i	
	180 Ringing ←		ACM
	100 1 19 19	_	7.0.11
	200 OK (INVITE)	<b>-</b>	ANM
	ACK (INVITE)	-	AINIVI
	ACK		
		_	
		<b>←</b>	CPG 1
		<b>←</b>	CPG 2
		Apply post test routine	0.02

TP number	TP_312_006	Reference	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 not on hold	d, notification 'Conference	disconnected'		
Test Purpose		eceipt of a CPG message t	et on hold and a conference is he Generic notification indicator is		
ISUP Parameter values	CPG 1: Generic notification Conference established CPG 2: Generic notification Conference disconnected				
SIP Parameter values					
Comments	This state is applicable for CC	NF and 3PTY			
Message flows	ISUP	MGCF	Mg		
	IAM → ACM ←	→ ← ←	INVITE 100 Trying 180 Ringing		
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK		
	CPG 1 →				
	CPG 2 →	Apply post test routing	ne		

TP number	TP_312_007	Reference	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, no	tification 'Conference disconne	cted'		
Test Purpose	A session at the I-MGCF is ir	n the confirmed state set on hole	d and a conference is		
	established. Ensure that on r	eceipt of a CPG message the C	Seneric notification indicator is		
		cted' a reINVITE request is sent	the 'a' attribute in the SDP is		
	set to 'sendonly'				
ISUP Parameter values	CPG 1: Generic notificatio	n			
	Remote hold				
	CPG 2: Generic notificatio				
	Conference es				
	CPG 3: Generic notificatio				
	Conference dis	sconnected			
SIP Parameter values	INVITE 1: SDP				
	a=sendonly				
	INVITE 2: SDP				
	a=sendrecv				
	INVITE 3: SDP				
Comments	a=sendonly This state is applicable for 3F	DTV			
Message flows	Mg	MGCF	ISUP		
wessage nows	INVITE	→	→ IAM		
	100 Trying	<b>É</b>	2 IAW		
	180 Ringing	<b>←</b>	<b>←</b> ACM		
	100 Kinging		AOM		
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM		
	ACK	<b>→</b>	AINIVI		
	AON				
	INVITE 1 (sendonly)	<b>←</b>	← CPG 1		
	200 OK INVITE (recvonly)	<b>→</b>	<b>C</b> 0101		
	ACK	<b>É</b>			
	No.	•			
	INVITE 2 (sendrecv)	<b>←</b>	← CPG 2		
	200 OK INVITE (sendrecv)	<b>→</b>	0102		
	ACK	<b>←</b>			
		•			
	INVITE 3 (sendonly)	<b>←</b>	← CPG 3		
	200 OK INVITE (recvonly)	<b>→</b>	- 3. 3 0		
	ACK	<b>←</b>			
		Apply post test routine			
		Apply post tost routille			

TP number	TP_312_008	Reference	7.4.14		
TSS reference	PSTN-SS/CONF/	1	1		
Selection criteria	PICS 6.3.1/1 AND PICS 6	6.3.2/13			
Test Purpose name		d, notification 'Conference dis	sconnected'		
Test Purpose		is in the confirmed state set			
·			the Generic notification indicator is		
	set to 'Conference disconnected' a reINVITE request is sent the 'a' attribute in the SDP is				
	set to 'sendonly'	•			
ISUP Parameter values	CPG 1: Generic notification	ation			
	Remote ho	ld			
	CPG 2: Generic notification				
		e established			
	CPG 3: Generic notification				
		e disconnected			
SIP Parameter values	INVITE 1: SDP				
	a=sendonly	/			
	INVITE 2: SDP				
	a=sendrecv	/			
	INVITE 1: SDP				
Comments	a=sendonly This state is applicable fo				
Message flows	ISUP	MGCF	Mg		
wessage nows	A conference is established				
	IAM	Connecting is established.	INVITE		
	IAW	, +	100 Trying		
	ACM	+ +	180 Ringing		
	ACIVI		100 Kinging		
	ANM	+ +	200 OK (INVITE)		
	AINI	`	ACK		
		-	AOR		
	CPG 1	<b>→</b>	INVITE 1 (sendonly)		
	01 0 1	· +			
		<b>•</b>	ACK		
		-	AOR		
	CPG 2	<b>→</b>	INVITE 2 (sendrecv)		
	0. 0.2	· +	,		
		• →	ACK		
		-			
	CPG 3	<b>→</b>	INVITE 3 (sendonly)		
		<b>+</b>	200 OK INVITE (recvonly)		
		<b>→</b>	ACK (restern)		
		Apply post test rout			
	1				

TSS reference PSTN-SS/CONF/ Selection criteria PICS 6.3.1/1 AND PICS 6.3.2/13  Test Purpose name I-MGCF: notification 'isolated' and 'reattached' interworked  A conference at the I-MFCF is established. Ensure that on receipt of a 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'  ISUP Parameter values CPG 1: Generic notification	TP number	TP_312_009	Reference	7	4.14		
PICS 6.3.1/1 AND PICS 6.3.2/13   Test Purpose name			1.01010100				
I-MGCF: notification 'isolated' and 'reattached' interworked			2/13				
A conference at the I-MFCF is established. Ensure that on receipt of a 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'  ISUP Parameter values  CPG 1: Generic notification							
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'  ISUP Parameter values  CPG 1: Generic notification				recei	nt of a CPG message the		
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 notification	Tool I diposo						
notification indicator is set to 'reattached' a reINVITÉ request is sent the 'a' attribute in the SDP is set to 'sendrecv'  CPG 1: Generic notification							
SDP is set to 'sendrecv'  ISUP Parameter values  CPG 1: Generic notification							
ISUP Parameter values  CPG 1: Generic notification Conference established CPG 2: Generic notification isolated CPG 3: Generic notification reattached  SIP Parameter values  INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv  Comments  This state is applicable for CONF  Message flows  Mg  MGCF  ISUP  INVITE A ACM  200 OK (INVITE)  F ANM							
Conference established  CPG 2: Generic notification isolated  CPG 3: Generic notification reattached  SIP Parameter values  INVITE 1: SDP	ISUP Parameter values		n				
CPG 2: Generic notification isolated CPG 3: Generic notification reattached  SIP Parameter values  INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv  Comments This state is applicable for CONF  Message flows  Mg MGCF ISUP  INVITE ACM 100 Trying 180 Ringing 4 200 OK (INVITE)  Teattached  ANM							
CPG 3: Generic notification reattached  SIP Parameter values  INVITE 1: SDP  a=sendonly INVITE 2: SDP  a=sendrecv  Comments  This state is applicable for CONF  Message flows  Mg  MGCF  ISUP  INVITE  INVITE  180 Ringing  4 ACM  200 OK (INVITE)  Teattached  INVITE  ANM							
reattached  SIP Parameter values  INVITE 1: SDP		isolated					
SIP Parameter values  INVITE 1: SDP  a=sendonly INVITE 2: SDP  a=sendrecv  Comments  This state is applicable for CONF  Message flows  Mg  MGCF  ISUP  INVITE  INVITE		CPG 3: Generic notificatio	n				
a=sendonly INVITE 2: SDP a=sendrecv  Comments This state is applicable for CONF  Message flows  Mg MGCF ISUP  INVITE		reattached					
INVITE 2: SDP   a=sendrecv	SIP Parameter values	INVITE 1: SDP					
a=sendrecv           Comments         This state is applicable for CONF           Message flows         Mg         MGCF         ISUP           INVITE         →         IAM           100 Trying         ←         ACM           180 Ringing         ←         ACM           200 OK (INVITE)         ←         ANM		a=sendonly					
Comments         This state is applicable for CONF           Message flows         Mg         MGCF         ISUP           INVITE         →         IAM           100 Trying         ←         ACM           180 Ringing         ←         ANM		INVITE 2: SDP					
Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         ←         ACM           180 Ringing         ←         ANM		a=sendrecv					
INVITE → IAM 100 Trying ← 180 Ringing ← ACM  200 OK (INVITE) ← ANM	Comments	This state is applicable for Co					
100 Trying ← 180 Ringing ← ACM 200 OK (INVITE) ← ANM	Message flows	Mg	MGCF		ISUP		
100 Trying ← 180 Ringing ← ACM 200 OK (INVITE) ← ANM							
180 Ringing ← ← ACM 200 OK (INVITE) ← ← ANM		1	<b>→</b>	<b>→</b>	IAM		
200 OK (INVITE) ← ← ANM			-				
		180 Ringing	<b>←</b>	←	ACM		
V C N				<b>←</b>	ANM		
IACK 7		ACK	<b>→</b>				
← CPG 1				<b>←</b>	CPG 1		
INVITE 1 (sendonly)			<b>←</b>	<b>←</b>	CPG 2		
200 OK INVITE (recvonly) →							
ACK ←		ACK	<del>-</del>				
INVITE 2 (sendrecv)				<b>←</b>	CPG 3		
200 OK INVITE (sendrecv) →							
ACK ←		ACK	=				
Apply post test routine			Apply post test routine				

TP number	TP_312_010		Reference		7.4.14
TSS reference	PSTN-SS/C				
Selection criteria	PICS 6.3.1/1	AND PICS 6.3.2/1	13		
Test Purpose name	O-MGCF: no	tification 'isolated'	and 'reattached' inter	work	ed
Test Purpose					on receipt of a CPG message the
					E request is sent the 'a' attribute in
					CPG message the Generic
			attached' a reINVITE	requ	uest is sent the 'a' attribute in the
	SDP is set to				
ISUP Parameter values	CPG 1: G	eneric notification			
		Conference esta	blished		
	CPG 2: G	eneric notification			
	CPG 3: G	isolated eneric notification			
	CPG 3: G	reattached			
SIP Parameter values	INVITE 1: SI				
on rainteter values	INVITE 1. SI	a=sendonly			
	INVITE 2: SI				
		a=sendrecv			
Comments	This state is	applicable for CON	JF		
Message flows	ISU	P	MGCF		Mg
	IAM	<b>→</b>	•	<b>→</b>	INVITE
			•	←	100 Trying
	ACM	<b>←</b>	•	←	180 Ringing
	ANM	<b>←</b>	•		200 OK (INVITE)
			•	→ .	ACK
	CPG 1	<b>→</b>			
	CPG 2	<b>→</b>			INVITE 1 (sendonly)
					200 OK INVITE (recvonly)
			•	→ .	ACK
	0000	•			INDUITE O (see a day or )
	CPG 3	<b>→</b>			INVITE 2 (sendrecv)
					200 OK INVITE (sendrecv)
					ACK
			Apply post test ro	utine	₩

# 6.2.13 Closed User Group (CUG)

TP number	TP_313_001	Reference	7.4.16
TSS reference	PSTN-SS/CUG/		
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/14	
Test Purpose name	oFCi CUG outgoing	access allowed call successfu	الا
Test Purpose			vard call indicator is set to 'CUG with UG information is present in the INVITE
ISUP Parameter values	IAM: Optional For	ward Call indicator: CUG with	outgoing access allowed
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test	routine

TP number	TP_313_002	Reference	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	outgoing access not allowed' a	Ensure that on receipt of an IAM the optional Forward call indicator is set to 'CUG with outgoing access not allowed' a REL message is sent the cause value is set to 29 and diagnostics indicating CUG without access is sent towards the originating exchange				
ISUP Parameter values	IAM: Optional Forward Call indicator: CUG with outgoing access not allowed REL: Cause value (if sent) 29 Diagnostics=CUG without access					
SIP Parameter values	<u> </u>					
Comments						
Message flows	ISUP MGCF Mg					
	IAM → REL #29 ←		_			
	RLC →					

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

TP number	TP_314_001	Reference	7.4.17
TSS reference	PSTN-SS/MLPP/		
Selection criteria	PICS 6.3.2/15		
Test Purpose name	Precedence parame	eter received in IAM, discarde	d
Test Purpose		pt of an IAM and a Preceder fect the ongoing call setup	ce parameter is present, this parameter is
ISUP Parameter values	IAM: Precedence		
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post tes	t routine

TP number	TP_314_002	Reference	7.4.17		
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 6.3.2/15				
Test Purpose name	A REL cause #9 terminates an	early dialogue			
Test Purpose	Ensure that on receipt of a REL message in an early dialogue at the O-MGCF and the Cause value is set to '9', a CANCEL request is sent. A Reason header is contained in the CANCEL request and the cause value is set to '9'				
ISUP Parameter values	REL: Cause = 9				
SIP Parameter values	CANCEL: Reason: Q.850; cau	se=9			
Comments					
Message flows	ISUP	MGCF	Mg		
	A Session is already in early dialogue				
	REL →	<b>→</b> (	CANCEL		
	RLC ←	← :	200 OK CANCEL		
		<b>←</b> 4	487 Request Terminated		
		<b>→</b>	ACK		

TP number	TP_314_003	Reference	7.4.17		
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 6.3.2/15				
Test Purpose name	A REL cause #8 terminates an	early dialogue			
Test Purpose	Ensure that on receipt of a 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; cause=8				
Comments					
Message flows	Mg	MGCF		ISUP	
	A Session is already in early dialogue				
	4xx/5xx	<b>←</b>	<b>←</b>	REL	
	ACK	<b>→</b>	<b>→</b>	RLC	

TP number	TP_314_004	Reference	7.4.17		
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 6.3.2/15				
Test Purpose name	A REL cause #9 terminates a c	confirmed dialogue			
Test Purpose	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 '9'				
ISUP Parameter values	REL: Cause = 9				
SIP Parameter values	BYE: Reason: Q.850; cause=9				
Comments					
Message flows	ISUP	MGCF	Mg		
	A Session is already established				
	REL →	<b>→</b>	BYE		
	RLC ←	<b>←</b>	200 OK BYE		

# 6.2.15 Global Virtual Network Service (GVNS)

TP number	TP_315_001	Reference	7.4.18		
TSS reference	PSTN-SS/GVNS/				
Selection criteria	PICS 6.3.2/16				
Test Purpose name	Forward GVNS parameter in IA	M discarded			
Test Purpose	Ensure that on receipt of an IAI GVNS parameter is discarded to				
ISUP Parameter values	IAM: Called party number Forward GVNS Originating participating service provider GVNS user group Terminating network routing number				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE 100 Trying		
		Apply post test routine	· -		

# 6.2.16 Reverse charging (REV)

TP number	TP_316_001	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/1 AND PICS 6.3.2/	17				
Test Purpose name	REV request from the calling u	ser at the call set-up time				
Test Purpose		Ensure that on receipt of an IAM and a Remote Operation parameter is present containing a REVCallingReqSetup invoke component, the Remote Operation parameter is discarded without affect the ongoing call setup				
ISUP Parameter values	IAM: Called party number Remote Operation REVCallingReqSetu transferRequest callingUserNum	ed = true				
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →		NVITE 100 Trying			

TP number	TP_316_002	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/1 AND P	PICS 6.3.2/17				
Test Purpose name	REV request from the	ne calling user during the active s	tate of the call			
Test Purpose	Remote Operation p	Ensure that on receipt of a 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	REVCallir transfe	FAC: Remote Operation REVCallingReqActive invoke transferRequested = true callingUserNumber				
SIP Parameter values						
Comments						
Message flows	<b>ISUP</b> FAC	MGCF A confirmed dialogue is alrea  Apply post test ro	•			

TP number	TP_316_003	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/1 AND F	PICS 6.3.2/17				
Test Purpose name	REV request from the	he called user during the active	state of the call			
Test Purpose	Remote Operation p	Ensure that on receipt of a FAC message at the I-MGCF in the active state of a call and a Remote Operation parameter is present containing a REVCalledRequest invoke component, the FAC message is discarded without affect the present call				
ISUP Parameter values	FAC: Remote Operation  REVCalledRequest invoke  transferRequested = true  calledUserNumber					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP A confirmed dialogue is already established					
			← FAC			
		Apply post test r	outine			

TP number	TP_316_004	Refe	rence	7.4.20		
TSS reference	PSTN-SS/REV/			·		
Selection criteria	PICS 6.3.7/2 AND PICS 6.3.2/17					
Test Purpose name	REV request in IAM 6	explicit rejected				
Test Purpose	<ul> <li>Ensure that on receipt of an 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:</li> <li>ANM a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork OR</li> <li>REL a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork and the Cause value is set to '29'</li> </ul>					
ISUP Parameter values	IAM: Called party n Remote Opera REVCallin transfe callingl ANM: Remote Opera REVCallin rejecte REL: Cause 29 Remote Opera REVCallin	umber ation gReqSetup invo rRequested = tr UserNumber ation gReqSetup retu dByNetwork	ke ue rn error			
SIP Parameter values	rejecte	ubynetwork				
Comments						
Message flows	ISUP		MGCF	Mg		
incosage nows	IAM CASE A	<b>→</b>	oo. →	INVITE		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE		
			<b>→</b>	ACK		
	Apply post test routine					
	CASE B REL RLC	<b>←</b> →				

TP number	TP_316_005	Reference	7.4.20				
TSS reference	PSTN-SS/REV/	1.0.0.0.00	11.1.20				
Selection criteria	PICS 6.3.7/2 AND	DICC 6 2 2/47					
Test Purpose name	REV request in the	e active state explicit rejected at	the O-MGCF				
Test Purpose			O-MGCF in the active state of the call				
	and a Remote Ope	eration parameter is present con	taining REVCallingReqSetup invoke				
			is supported, the SUT sends in a FRJ				
			ng a REVCallingReqActive return error				
		rejectedByNetwork	·9 ··· - · · · · · · · · · · · · · · · ·				
ISUP Parameter values	FAC: Remote Op						
loor rarameter values	•	REVCallingRegActive invoke					
		sferRequested = true					
		callingUserNumber					
	· ·	FRJ: Remote Operation					
		REVCallingReqActive return error					
	rejed	ctedByNetwork					
SIP Parameter values							
Comments							
Message flows	ISUP	MGCF	Mg				
	A confirmed dialogue is already established						
	FAC						
	FRJ	<b>É</b>					
	LKA	<del>-</del>					
		Apply post test	routine				

TP number	TP_316_006	Reference	7.4.20		
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 6.3.7/2 AND	PICS 6.3.2/17			
Test Purpose name	REV request in th	e active state explicit rejected at the	e I-MGCF		
Test Purpose	Ensure that on receipt of an 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 FRJ message a Remote Operation parameter containing a REVCalledRequest return error component set to rejectedByNetwork				
ISUP Parameter values	FAC: Remote Operation REVCater Revolution RevCater RevCater RevCater RevCater RevOlution RevCater	peration alledRequest invoke nsferRequested = true ledUserNumber			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
		·	FAC FRJ		

# 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	Refer	ence		7.4.21.1	.2
TSS reference	PSTN-SS	S/UUS/					
Selection criteria	PICS 6.3	3.2/18					
Test Purpose name	User to u	ıser informati	on received in a	n INVITE is se	nt in an I	AM	
Test Purpose	'encoding	Ensure that on receipt of a User-to-User header field in an initial INVITE request and the 'encoding' parameter is set to 'hex' an ISUP IAM 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	IAM: U	ser-to-user Ir	nformation				
		User Inforn	nation				
SIP Parameter values	INVITE:	User-to-Us	er: <uuidata>; e</uuidata>	ncoding=hex			
Comments							
Message flows		Mg		MGCF			ISUP
	INVITE		<b>→</b>		<b>→</b>	IAM	
	100 Tryir	ng	<b>←</b>				
		-	App	ly post test ro	outine		

TP number	TP_317_002	Reference	7.4.21.1.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.2/18					
Test Purpose name	User to user information received	ved 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 ISUP 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	on				
	User Information					
SIP Parameter values	CANCEL: User-to-User: <uuio< th=""><th>data&gt;; encoding=hex</th><th></th></uuio<>	data>; encoding=hex				
Comments						
Message flows	Mg INVITE -	MGCF →	ISUP IAM			
	CANCEL 200 OK CANCEL 487 Request Terminated ACK	<del>-</del>	REL RLC			
		Apply post test routine				

TP number	TP_317_003	Reference	7.4.21.1.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	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 User-to-User header field in a BYE request after a confirmed dialogue was established and the 'encoding' parameter is set to 'hex' an ISUP 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	<b>REL:</b> User-to-user Information	REL: User-to-user Information				
	User Information					
SIP Parameter values	BYE: User-to-User: <uuidata:< th=""><th>&gt;; encoding=hex</th><th></th></uuidata:<>	>; encoding=hex				
Comments						
Message flows	Mg	MGCF	ISUP			
	A confirmed dialogue is already established					
	BYE →	<b>→</b>	REL			
	200 OK BYE ←	<b>←</b>	RLC			

TP number	TP_317_0	004	Reference		7.4.21.1.3
TSS reference	PSTN-SS/	/UUS/			·
Selection criteria	PICS 6.3.2	2/18			
Test Purpose name	User to us	ser information recei	ved in an IAM is sent	in an INV	'ITE
Test Purpose	is sent and	d the User-to-User I	neader is present. The	uuidata	n an IAM, an INVITE request parameter is derived from the ne encoding parameter is set
ISUP Parameter values	IAM: Us	er-to-user Information	on		
		User Information			
SIP Parameter values	INVITE:	User-to-User: <uui< th=""><th>data&gt;; encoding=hex</th><th></th><th></th></uui<>	data>; encoding=hex		
Comments					
Message flows	19	SUP	MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
			Apply post test r	outine	

TP number	TP_317_005	Reference	7.4.21.1.3
TSS reference	PSTN-SS/UUS/		
Selection criteria	PICS 6.3.2/18		
Test Purpose name	User to user information receive	ed in a REL is sent in a CANC	EL
Test Purpose	Ensure that on receipt of User-		
	confirmed, a CANCEL request		
	parameter is derived from the U	Jser Information of the User-to	-user parameter of the REL,
	the encoding parameter is set t	o 'hex'	
ISUP Parameter values	<b>REL:</b> User-to-user Information	1	
	User Information		
SIP Parameter values	CANCEL: User-to-User: <uuida< th=""><th>ata&gt;; encoding=hex</th><th></th></uuida<>	ata>; encoding=hex	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	REL →	<b>→</b>	CANCEL
	RLC ←	<b>+</b>	200 OK CANCEL
		<b>←</b>	487 Request Terminated
		<b>→</b>	ACK
		Apply post test routine	

TP number	TP_317_006	Reference	7.4.21.1.3		
TSS reference	PSTN-SS/UUS/				
Selection criteria	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-to-user parameter contained in a REL after the dialogue is confirmed, a BYE 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 Information User Information	1			
SIP Parameter values	BYE: User-to-User: <uuidata></uuidata>	; encoding=hex			
Comments					
Message flows	ISUP	MGCF	Mg		
	A confirmed dialogue is already established				
	REL →	<b>→</b>	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	Re	ference	7.4.21.2	
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.2/18 AND	NOT PICS 6.3	5.8/1		
Test Purpose name	User-to-user indica	tor service 1 'no	ot essential' received in IAM	1, discarded	
Test Purpose				parameter for the service 1 is	
	present the request	t is 'not essentia	al' the call setup is not disru	pted	
ISUP Parameter values	IAM: User-to-use	r Indicator			
	Request	service 1			
	not e	essential			
	User-to-use	User-to-user Information			
	User Information				
SIP Parameter values					
Comments					
Message flows	ISUP		MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE	
			<b>→</b>	ACK	
		A	apply post test routine		

TP number	TP_317_102	Reference	7.4.	21.2	
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.2/18 AND PIC	S 6.3.8/1			
Test Purpose name	User-to-user indicator se response in ACM or ANI	ervice 1 'not essential' receiv M 'not provided'	ed in IAM, Us	er-to-user indicator	
Test Purpose	present the request is 'n	f an IAM and a User-to-user ot essential' the call setup is M with a response for service	not disrupted	A User-to-user indicator	
ISUP Parameter values	Request servi not essen User-to-user Info	Request service 1 not essential User-to-user Information User Information ACM or ANM:			
	Response service 1				
SIP Parameter values	1101110110				
Comments					
Message flows	ISUP IAM ACM ANM	MGCF  ← ← Apply post test re	<ul><li>← 200</li><li>→ ACI</li></ul>	Ringing OK INVITE	

TP number	TP 317 103	Reference	7.4.21.2	
TSS reference	PSTN-SS/UUS/		1	
Selection criteria	PICS 6.3.2/18 AND PICS 6.3	.8/1		
Test Purpose name		1 'essential' received in IAM, ca	all is rejected	
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 1 is present the request is 'essential' the call setup is rejected. A REL is sent the Cause value is set to '29' the Diagnostics field contains the parameter name of the User-to-user indicator '42'			
ISUP Parameter values	IAM: User-to-user Indicator Request service 1 essential User-to-user Informati User Information REL: Cause indicator Cause 29 Diagnostics 42	on		
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	REL ← RLC →			

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

TP number	TP_317_201	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.2/18 AND NOT PICS	6.3.8/1				
Test Purpose name	User-to-user indicator service 2	2 'not essential' received in IAM	1, discarded			
Test Purpose	Ensure that on receipt of an IAI	M and a User-to-user indicator	parameter for the service 2 is			
	present the request is 'not esse	ential' the call setup is not disru	pted			
ISUP Parameter values	IAM: User-to-user Indicator					
	Request service 2	Request service 2				
	not essential	not essential				
	User-to-user Information					
	User Information					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
		Apply post test routine				

TP number	TP_317_202	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.2/18 AND PICS 6.3.	8/1				
Test Purpose name	User-to-user indicator service	2 'not essential' received in IAN	/I, User-to-user indicator			
	response in ACM or ANM 'not	provided'				
Test Purpose		AM and a User-to-user indicator				
	present the request is 'not ess	sential', the call setup is not disr	upted A User-to-user indicator			
	is sent in an ACM or ANM with	h a response for service 2 'not p	provided'			
ISUP Parameter values	IAM: User-to-user Indicator					
	Request service 2					
	not essential					
	User-to-user Information	on				
		User Information				
	ACM or ANM:					
	User-to-user Indicator					
	Response service 2	2				
	not Provided					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
	ACM <b>←</b>	<b>←</b>	180 Ringing			
	ANM <b>←</b>	<b>←</b>	200 OK INVITE			
		<b>→</b>	ACK			
		Apply post test routine				

TP number	TP_317_203	Reference	7.4.21.2	
TSS reference	PSTN-SS/UUS/	•		
Selection criteria	PICS 6.3.2/18 AND PICS 6.3.	8/1		
Test Purpose name	User-to-user indicator service	2 'essential' received in IAM, ca	all is rejected	
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 2 is present the request is 'essential', the call setup is rejected. A REL is sent the Cause value is set to '29' the Diagnostics field contains the parameter 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	on		
SIP Parameter values	- <b>9</b>			
Comments				
Message flows	ISUP IAM → REL ← RLC →	MGCF	Mg	

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

TP number	TP_317_301	Reference	7.4.21.2	
TSS reference	PSTN-SS/UUS/			
Selection criteria	PICS 6.3.2/18 AND NOT PICS	6.3.8/1		
Test Purpose name	User-to-user indicator service 3	3 'not essential' received in IAM	Л, discarded	
Test Purpose	Ensure that on receipt of an IA	M and a User-to-user indicator	parameter for the service 3 is	
	present the request is 'not esse	ential' the call setup is not disru	ıpted	
ISUP Parameter values	IAM: User-to-user Indicator			
	Request service 3			
	not essential			
	User-to-user Information			
	User Information			
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

TP number	TP_317_302	Reference	7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	AND PICS 6.3.2/18 AND PIC	S 6.3.8/1			
Test Purpose name	User-to-user indicator service response in ACM or ANM 'no	3 'not essential' received in IA provided'	M, User-to-user indicator		
Test Purpose	present the request is 'not es	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 3 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 3 'not provided'			
ISUP Parameter values	IAM: User-to-user Indicator Request service 3 not essential User-to-user Information User Information ACM or ANM: User-to-user Indicator Response service 3				
	not Provided				
SIP Parameter values					
Comments					
Message flows	ISUP IAM  ACM ← ANM  ←	MGCF	Mg INVITE 180 Ringing 200 OK INVITE ACK		
		Apply post test routine			

TP number	TD 2	17 202	Reference	7.4.21.2	
		17_303	Reference	1.4.21.2	
TSS reference		-SS/UUS/			
Selection criteria		<u>6.3.2/18 AND PICS 6.3.8</u>	-		
Test Purpose name	User-	to-user indicator service 3	B 'essential' received in IAM, c	all is rejected	
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 3 is present the request is 'essential', the call setup is rejected. A REL is sent the Cause value is set to '29' the Diagnostics field contains the parameter name of the User-to-user indicator '42'				
ISUP Parameter values		User-to-user Indicator Request service 3 essential User-to-user Information User Information Cause indicator	٦		
	Cause 29 Diagnostics 42				
SIP Parameter values					
Comments					
Message flows		ISUP	MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<del>-</del>	<b>+</b>	180 Ringing	
	ANM	<b>←</b>	<b>+</b>	200 OK INVITE	
			<b>→</b>	ACK	
		Apply post test routine			

# 6.2.18 Anonymous Call rejection

TP number	TP_318_001	Reference	7.4.23
TSS reference	PSTN-SS/ACR/		
Selection criteria			
Test Purpose name	Receipt of REL cause 24		
Test Purpose	Ensure that on receipt of an IS		after the IAM was sent, a 433
	(Anonymity Disallowed) final re		
ISUP Parameter values	REL: Cause=24 (call rejected	I due to ACR supplementary s	service)
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b> →	IAM
	100 Trying	<b>←</b>	
	433 (Anonymity Disallowed)	<b>← ←</b>	REL
	ACK	→ →	RLC
		Apply post test routine	

TP number	TP_318_002	Reference	7.4.23
TSS reference	PSTN-SS/ACR/		
Selection criteria			
Test Purpose name	Receipt of 433		
Test Purpose	Ensure that on receipt of a	433 (Anonymity Disallowed)	final response after an initial
	INVITE request was sent, a	n ISUP REL cause #24 is se	ent
ISUP Parameter values	REL: Cause=24 (call reject	ted due to ACR supplement	tary service)
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	REL ←	<del>-</del>	433 (Anonymity Disallowed)
	RLC →	<b>→</b>	ACK
		Apply post test routi	ne

# 6.3 IMS Supplementary Services

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

TP number	TP_401_001	Reference	7.5.1		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name	INVITE received.	From header not present, P-Asse	rted-Identity not present. Network		
	provided number	is sent			
Test Purpose			Asserted-Identity is not present and the		
			s an E.164 Address, an IAM is sent.		
		number parameter is present and	the address digits are provided by the		
	SUT				
ISUP Parameter values	IAM: Calling pa	arty Number			
	Numbe	er incomplete indicator=Complete			
	Numbe	ering Plan Indicator=ISDN/Teleph	ony (Recommendation E.164 [i.1])		
	Nature	e of Address Indicator			
	If C	CC encoded in the URI is equal to	the CC of the country where MGCF is		
	loc	ated AND the next BICC/ISUP no	de is located in the same country then		
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Preser	Presentation restriction=restricted or allowed			
	Address signal provided by the Network				
		IOA is " <i>national (significant) numb</i>			
		NOA is ' <i>international number"</i> then	set to "CC"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asse	erted-Identity: not present			
	From:	does not contain a URI that encode	des an E.164 address		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	100 Trying	<b>←</b>			
		Apply post test i	outine		

TP number	TP_401_002	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/4 AND F	PICS 6.3.2/1					
Test Purpose name	INVITE received. Fr	rom header not present, P-Asse	erted-Identity not present. Network				
	provided number is						
Test Purpose			Asserted-Identity is not present and the				
		From header does not contain an URI that encodes an E.164 Address, an IAM is sent.					
			ne address digits are provided by the				
			'presentation restricted by network'				
ISUP Parameter values		Calling party Number					
		incomplete indicator=Complete					
			ony (Recommendation E.164 [i.1])				
		Nature of Address Indicator					
			the CC of the country where MGCF is				
			de is located in the same country then				
		ational (significant) number					
	else						
		ternational number					
		ng indicator=Network Provided	stuinta al la consatrona ule				
		Presentation restriction=presentation restricted by network Address signal <b>provided by the Network</b>					
		A is " <i>national (significant) numb</i> A is ' <i>international number"</i> then					
SIP Parameter values		ed-Identity: not present	Set to CC + INDC + SIN				
SIF Farailleter values		pes not contain a URI that enco	des an E 164 address				
Comments	T TOTTI. GO	des not contain à ord that encoc	des all E.104 address				
Message flows	Mg	MGCF	ISUP				
message nows	INVITE	→	→ IAM				
	100 Trying	É	• IAIVI				
	Too Trying	Apply post test i	routine				
[		Apply post test i	Outilie .				

TP number	TP_401	003	Refe	rence		7.5.1, 7.5	2.3.1.2.6
TSS reference	IMS-SS/0	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3	.3/2 AND PIC	S 6.3.2/1				
Test Purpose name	INVITE re	eceived. From	header not pi	resent, P-Assert	ed-Ident	ity not pre	sent. Address digits
Test Purpose	From hea	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 IAM is sent. A Calling party number parameter is present and the address digits omitted					
ISUP Parameter values	IAM: Ca	alling party N ent	lumber				
SIP Parameter values	INVITE:		Identity: not pr	esent JRI that encode	s an E.1	64 addres	SS
Comments							
Message flows		Mg		MGCF			ISUP
	INVITE 100 Tryin	ng	<b>→</b>		<b>→</b>	IAM	
		Apply post test routine					

TP number	TP 401 004	Reference	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.	PICS 6.3.3/2 AND PICS 6.3.3/3 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From hea 'Address not available'	INVITE received. From header not present, P-Asserted-Identity not present APRI is set to 'Address not available'				
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 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 incomp Numbering Plan	lete indicator=Complete Indicator='000'				
	Nature of Addre	ss 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	Mg	MGCF	ISUP			
	INVITE → IAM					
	100 Trying	<b>←</b>				
		Apply post test routine				

TP number	TP_401_005	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	•				
Selection criteria	PICS 6.3.3/1 PICS 6.3	3.2/1				
Test Purpose name	INVITE received. From	m header present, P-Asserted-	Identity not present. Network provided			
	number is sent	·				
Test Purpose			sserted-Identity is not present and the			
		s an URI that encodes an E.16				
			e address digits are provided by the			
			Generic number parameter and the			
		derived from the Userpart of the	e From header			
ISUP Parameter values	IAM: Calling party					
		complete indicator=Complete				
			ny (Recommendation E.164 [i.1])			
		Address Indicator				
			he CC of the country where MGCF is			
			le is located in the same country then			
		ional (significant) number				
	else					
		ernational number				
		indicator=Network Provided	d			
		on restriction=restricted or allow				
		gnal provided by the Networl				
	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					
		tional number				
	Number incomplete indicator=Complete					
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
	Presentation restriction=restricted or allowed					
	Screening indicator=user provided not verified					
	Address digits derived from the 'From' header					
	if NOA is national (significant) number then set to "NDC" + "SN"					
		is "international number" set to	CC"+' NDC'+'SN'			
SIP Parameter values	INVITE: P-Asserted	d-Identity: not present				
	From: cont	tains a URI that encodes an E.	164 address			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
		Apply post test ro	outine			

TP number	TP_401_006	Reference	7.5.1, 7.2.3.1.2.6
TSS reference	IMS-SS/OIP-OIR/	·	•
Selection criteria	PICS 6.3.3/1 AND PI	CS 6.3.3/4 AND PICS 6.3.2/1	
Test Purpose name	INVITE received. From number is sent	m header present, P-Asserted	-Identity not present. Network provided
Test Purpose	From header contains A Calling party number SUT. The Presentation Additional calling Part signals are derived from	s an URI that encodes an E.16 er parameter is present and the on restriction indicator is set to ty number is sent in a Generic om the Userpart of the From hesentation allowed'	Asserted-Identity is not present and the 4 Address, an IAM is sent.  e address digits are provided by the 'presentation restricted by network'. An number parameter and the Address eader and the Presentation restriction
ISUP Parameter values	Numbering Nature of A  If CC e located nati else inte Screening Presentatic Address si if NOA If NOA Additional ca Nature of A If CC e located national else interna Number inc Numbering Presentatic Screening	complete indicator=Complete g Plan Indicator=ISDN/Telepho Address Indicator Incoded in the URI is equal to the AND the next BICC/ISUP not ional (significant) number Indicator=Network Provided In restriction=presentation restriction=presentation restriction=presentation restriction=grail provided by the Network Is "national (significant) number Is 'international number" then in international number Address Indicator Incoded in the URI is equal to the IAND the next BICC/ISUP not international number It is international number It i	k er" then set to "NDC" + "SN" set to "CC"+" NDC"+"SN"  he CC of the country where MGCF is de is located in the same country then  eny (Recommendation E.164 [i.1])
		is national (significant) numbe	
SIP Parameter values		is " <i>international number"</i> set to d-Identity: not present	) CC + NDC + SN
OIF FAIAINELEI VAIUES		tains a URI that encodes an E.	164 address
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE 100 Trying	<b>→</b>	→ IAM
		Apply post test re	outine

TP number	TP_401_007	7 F	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP					
Selection criteria	PICS 6.3.3/2	AND NOT PICS 6.3	3.3/5 AND PICS 6.3.2/1			
Test Purpose name	INVITE rece	ived. From header p	resent, P-Asserted-Identity	not present. Address digits		
	omitted					
Test Purpose				Identity is not present and the		
			at encodes an E.164 Addres			
				s digits omitted. An Additional		
				and the Address signals are		
		the Userpart of the				
ISUP Parameter values		ng party Number no				
		tional calling party				
	N	ature of Address Ind				
				f the country where MGCF is		
		located AND the next BICC/ISUP node is located in the same country then				
		national (significar	nt) number			
		else				
		international numb	• • •			
		umber incomplete in				
		Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
		Presentation restriction=restricted or allowed				
		•	ser provided not verified			
	A		d from the 'From' header	4.4- UAIDOU - UOAIU		
	if NOA is <i>national (significant) number</i> then set to "NDC" + "SN"  If NOA is "international number" set to "CC"+' NDC'+'SN'					
SIP Parameter values	INVITE: P			NDC + SN		
SIP Parameter values		-Asserted-Identity: n	•			
Comments	<u> </u>	om: contains a URI	that encodes an E.164 add	ress		
Comments	<del>                                     </del>	Mar.	MOOF	ICUD		
Message flows		Иg	MGCF →	ISUP		
	INVITE	<b>→</b>	7	IAM		
	100 Trying	+	Ample wast took wast!			
			Apply post test routine			

TP number	TP 401 008	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/	reference	1.5.1, 1.2.5.1.2.0		
		- AND DIGG 0 0 0/4			
Selection criteria	PICS 6.3.3/2 AND PICS 6.3.3/5				
Test Purpose name	INVITE received. From header	present, P-Asserted-Identity n	ot 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 contains an URI to	hat encodes an E.164 Address	s, an IAM is sent.		
	A Calling party number parame	eter is present and the address	digits omitted. In addition, the		
	Additional calling party number				
ISUP Parameter values	IAM: Calling party Number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator='000'				
	Nature of Address In				
	Screening indicator=Network Provided Presentation restriction= Address not available				
	Address signal Address digits not present				
	Additional calling party number not present				
SIP Parameter values					
SIF Farailleter values					
	From: contains a URI that encodes an E.164 address				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	100 Trying ←				
		Apply post test routine			

TP number	TP_401_009	Reference	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 head	er not present, P-Asserted-Ider	ntity present Privacy not present		
Test Purpose		NVITE request the P-Asserted			
	From header does not contain	n an URI that encodes an E.16	34 Address a Privacy header is		
	not present, an IAM is sent.				
		neter is present and the addres	ss digits are derived from the		
	P-Asserted-Identity header				
ISUP Parameter values	IAM: Calling party Number				
		e indicator=Complete			
		ndicator=ISDN/Telephony (Red	commendation E.164 [i.1])		
	Nature of Address				
		in the URI is equal to the CC of			
		ne next BICC/ISUP node is loca	ated in the same country then		
		gnificant) number			
	else	al accomplisación			
	internationa				
	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"				
SIP Parameter values			C + NDC + SN		
on randineter values	INVITE: P-Asserted-Identity: present From: does not contain a URI that encodes an E.164 address				
	Privacy not preser		104 addie33		
Comments	i iivaay nat piesa.				
Message flows	Mg	MGCF	ISUP		
	_	<b>→</b>	IAM		
	=	- <del>-</del>			
		Apply post test routine			
	<del>-</del>	17.71			

TP number	TP_401_010	F	Reference	7.5.1, 7	7.2.3.1.2.6
TSS reference	IMS-SS/OIP-0	OIR/		,	
Selection criteria	PICS 6.3.2/1				
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'none'				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header does not contain an URI that encodes an E.164 Address and a Privacy header is present set to 'none', an IAM is sent.  A Calling party number parameter is present and the address digits are derived from the P-Asserted-Identity header. The Presentation restriction is set to 'presentation 'allowed'				
ISUP Parameter values	IAM: Calling Nu Nu Na Sc Pre	g party Number mber incomplete in mbering Plan Indic ture of Address Inc If CC encoded in t located AND the n national (signif else international ne reening indicator=N esentation restriction dress signal derive if NOA is "national	adicator=Complete ator=ISDN/Teleph dicator he URI is equal to ext BICC/ISUP no icant) number umber Network Provided in=allowed ed from the P-Ass I (significant) numb	ony (Recommenda the CC of the coun de is located in the	ntion E.164 [i.1])  Intry where MGCF is a same country then  Introduced by the same country then
SIP Parameter values	Fro	Asserted-Identity: p	resent	des an E.164 addre	
Comments			MOCE		ICUD
Message flows	INVITE 100 Trying	g → ←	MGCF Apply post test	→ IAM	ISUP

TP number	TP_401_011	Reference	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. F	rom header not present, P-Ass	erted-Identity present, Privacy value 'id'				
Test Purpose			-Asserted-Identity is present and the				
			s an E.164 Address and a Privacy				
		ader is present set to 'id', an IAM is sent.					
			he address digits are derived from the				
			riction is set to 'presentation 'restricted'				
ISUP Parameter values	IAM: Calling part						
		incomplete indicator=Complete					
		Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
		of Address Indicator					
			the CC of the country where MGCF is				
			ode is located in the same country then				
		national (significant) number					
	else						
		nternational 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"					
SIP Parameter values			1 Set to CC + NDC + SN				
SIP Parameter values		ted-Identity: present oes not contain a URI that enco	doe on F 164 oddroop				
			des an E. 164 address				
Comments	Privacy:	Iu					
Message flows	Ma	MGCF	ISUP				
INICSSAGE HOWS	Mg						
	INVITE	<del>→</del> ←	→ IAM				
	100 Trying	<del>-</del>	routino				
		Apply post test	routine				

TP number	TP_401_0	)12	Reference	е	7.5.1, 7	.2.3.1.2.6
TSS reference	IMS-SS/C	IP-OIR/	•		,	
Selection criteria	PICS 6.3.	2/1				
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'user'					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header does not contain an URI that encodes an E.164 Address and a Privacy header is present set to 'user', an IAM is sent.  A Calling party number parameter is present and the address digits are derived from the P-Asserted-Identity header. The Presentation restriction is set to 'presentation 'restricted'					
ISUP Parameter values	P-Asserted-Identity header. The Presentation restriction is set to 'presentation 'restricted'  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 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"					
SIP Parameter values	INVITE:	P-Asserted-	s 'international nun Identity: present not contain a URI er			
Comments		N		МООБ		IOUD
Message flows	INVITE 100 Trying	<b>Mg</b>	<b>→</b> ←	MGCF	→ IAM	ISUP

TP number	TP_401_013	Reference	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-Ass	erted-Identity present, Privacy value				
	'header'	•					
Test Purpose	Ensure that on receip	pt of an INVITE request the P	-Asserted-Identity is present and the				
	From header does no	ot contain an URI that encode	s an E.164 Address and a Privacy				
		t to 'header', an IAM is sent.					
			he address digits are derived from the				
			riction is set to 'presentation 'restricted'				
ISUP Parameter values	IAM: Calling party						
		ncomplete 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					
			ode is located in the same country then				
		tional (significant) number					
	else						
		ernational number					
		indicator=Network Provided					
		ion restriction=restricted					
		ignal derived from the P-As					
			ber" then set to "NDC" + "SN"				
OID Developed		is 'international number" the	1 Set to "CC"+" NDC"+"SN"				
SIP Parameter values		d-Identity: present	dan ay <b>F</b> 404 addusan				
		es not contain a URI that enco	des an E.164 address				
Comments	Privacy: h	eader					
Comments	NA	МООТ	IOUD				
Message flows	Mg	MGCF	ISUP				
	INVITE	<del>)</del>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test	routine				

TP number	TP_401_014	Reference	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 not					
-	present, 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 a Privacy header is not present, an IAM is sent.  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 allowed'. 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 the Presentation restriction indicator is set to 'presentation allowed'.					
ISUP Parameter values						
ioor i arameter values	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 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 "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 number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1]) Presentation restriction=allowed 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'					
SIP Parameter values	INVITE: P-Asserted-Identity: present From: contains a URI that encodes an E.164 address Privacy not present					
Comments						
Message flows	Mg INVITE	MGCF →	ISUP → IAM			
	100 Trying	<b>←</b>				
	Apply post test routine					

TSS reference IMS Selection criteria NO Test Purpose name INV add Test Purpose Ens Fro hea	TE received tional calling ure that on render conder is preser	/6 AND PICS 6.3 . From header pr I party number no eceipt of an INVI ntains an URI tha	esent, P-Asserted-Ide of omitted TE request the P-Ass	7.5.1, 7.2.3.1.2.6 entity present. Privacy header 'none' erted-Identity is present and the				
Test Purpose name INV add Test Purpose Ens From hea	TE received tional calling ure that on render conder is preser	. From header pr party number no eceipt of an INVI ntains an URI tha	esent, P-Asserted-Ide of omitted TE request the P-Ass					
Test Purpose name INV add Test Purpose Ens	TE received tional calling ure that on render conder is preser	. From header pr party number no eceipt of an INVI ntains an URI tha	esent, P-Asserted-Ide of omitted TE request the P-Ass					
Test Purpose Ens	tional calling ure that on re n header cou der is preser	party number no eceipt of an INVI ntains an URI tha	ot omitted TE request the P-Ass					
Test Purpose Ens Fro hea	ure that on ron n header cou der is preser	eceipt of an INVIntains an URI tha	TE request the P-Ass	erted-Identity is present and the				
Fro hea	n header co der is preser	ntains an URI tha						
hea	der is preser		it encodes an E.164 <i>P</i>	From header contains an URI that encodes an E.164 Address, an IAM is sent Privacy				
		וו סכו וט ווטווכ .	header is present set to 'none'.					
IA C			r is present and the a	ddress digits are derived from the				
	P-Asserted-Identity header the Presentation restriction indicator is set to 'pres							
	allowed'. An Additional calling Party number is sent in a Generic number parameter							
	the Address signals are derived from the Userpart of the From header the Presentation restriction indicator is set to 'presentation allowed'.							
	IAM: Calling party Number							
			dicator=Complete					
				(Recommendation E.164 [i.1])				
		e of Address Indi						
	If CC encoded in the URI is equal to the CC of the country where MGCF							
				s located in the same country then				
		national (signific						
	else international 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 (significant) number else							
	international number  Number incomplete indicator=Complete							
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])							
	Presentation restriction=allowed							
	Scree	ning indicator=us	ser provided not verifi	ed				
Address digits derived from the 'From' header								
	if I	NOA is national (	significant) number th	en set to "NDC" + "SN"				
	lf l	NOA is "internation	onal number" set to "(	CC"+' NDC'+'SN'				
SIP Parameter values INV		erted-Identity: pr						
	From:	contains a URI t	hat encodes an E.164	4 address				
	Privad	cy: none						
Comments								
Message flows	Mg		MGCF	ISUP				
INV	ITE	<b>→</b>		→ IAM				
100	Trying	<b>←</b>						
	Apply post test routine							

TP number	TP_401_016				
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 '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 URI that encodes an E.164 Address, an IAM is sent Privacy header is present set to 'id'.  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 restricted'. 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 the Presentation restriction indicator is set to 'presentation restricted'.				
ISUP Parameter 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 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					
	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 number  Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1]) Presentation restriction=restricted				
	Screening indicator=user provided not verified				
	Address digits derived from the 'From' header				
	if NOA is national (significant) number then set to "NDC" + "SN"				
OID D	If NOA is "international number" set to "CC"+' NDC'+'SN'				
SIP Parameter values	INVITE: P-Asserted-Identity: present From: contains a URI that encodes an E.164 address Privacy: id				
Comments					
Message flows	Mg MGCF ISUP				
-	INVITE → IAM				
	100 Trying ←				
I	Apply post test routine				

TP number	TP_401_017	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OI	R/	,			
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			-Asserted-Identity is present and the			
		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 IAM is sent Privacy				
	header is present set to 'user'.					
		A Calling party number parameter is present and the address digits are derived from the				
	P-Asserted-Identity header the Presentation restriction indicator is se					
			ent in a Generic number parameter and			
			of the From header the Presentation			
		restriction indicator is set to 'presentation restricted'				
ISUP Parameter values	IAM: Calling party Number					
		ber incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1]) Nature of Address Indicator					
			the CC of the country where MGCF is			
	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"  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 number  Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1]) Presentation restriction=restricted					
	Scre	ening indicator=user provided not v	verified			
		ress digits derived from the 'From				
	if NOA is national (significant) number then set to "NDC" + "SN"					
	If	NOA is "international number" set	to "CC"+' NDC'+'SN'			
SIP Parameter values		sserted-Identity: present				
	From	n: contains a URI that encodes an E	E.164 address			
	Priva	acy: user				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
	Apply post test routine					
		7.44.7				

TP number	TP_401_018	Reference	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 head	ler present, P-Asserted-lo	dentity present. Privacy header			
-	'header', additional calling pa		, ,			
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 IAM is sent Privacy header is present set to 'header'.  A Calling party number parameter is present and the address digits are derived from the					
	P-Asserted-Identity header t restricted'. An Additional call the Address signals are deri	Asserted-Identity header the Presentation restriction indicator is set to 'presentation tricted'. An Additional calling Party number is sent in a Generic number parameter and Address signals are derived from the Userpart of the From header the Presentation triction indicator is set to 'presentation restricted'				
ISUP Parameter values	IAM: Calling party Number					
	Number incomple Numbering Plan I Nature of Address If CC encoded located AND t	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 i located AND the next BICC/ISUP node is located in the same country the national (significant) number				
	else	3				
	internation	al number				
	Screening indicat	or=Network Provided				
	Presentation rest	riction=restricted				
	Address signal <b>de</b>	erived from the P-Asser	ted-Identity			
	if NOA is "nat	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				
	located AND t	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 r	number				
	Number incomple	te indicator=Complete				
	Numbering Plan I	ndicator=ISDN/Telephon	y (Recommendation E.164 [i.1])			
	Presentation rest		- <del>-</del>			
		or=user provided not veri				
		rived from the 'From' he				
			then set to "NDC" + "SN"			
		rnational number" set to	"CC"+' NDC'+'SN'			
SIP Parameter values	INVITE: P-Asserted-Identi From: contains a Privacy: header	ty: present URI that encodes an E.10	64 address			
Comments	. madj. maddi					
Message flows	Mg	MGCF	ISUP			
-	INVITE	<b>→</b>	→ IAM			
	100 Trying	<del>(</del>				
I	]	Apply post test rou	utine			
	1	7.PP.7 POOL 1001101				

TP number	TP_401_019				
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	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 not				
	present, additional calling party number 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 a Privacy header is not				
	present, an IAM is sent.				
	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				
	allowed'. An Additional calling Party number parameter is not present				
ISUP Parameter 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 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 "national (significant) number" then set to "NDC" + "SN"				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Identity: present				
	From: contains a URI that encodes an E.164 address				
Comments	Privacy not present				
• • • • • • • • • • • • • • • • • • • •	Mg MGCF ISUP				
Message flows	INVITE → IAM				
	-				
	Apply post test routine				

			9	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1					
Test Purpose name	INVITE receive	d. From header present, P	-Asserted-Identity	present. Privacy header 'none',		
	additional calling	g party number omitted				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the					
			es an E.164 Addre	ss a Privacy header is set to		
	'none', an IAM					
				ss digits are derived from the		
				ator is set to 'presentation		
		ditional calling Party numb	er parameter is no	ot present		
ISUP Parameter values	IAM: Calling					
		ber incomplete indicator=0				
		bering Plan Indicator=ISD	N/Telephony (Rec	ommendation E.164 [i.1])		
		re of Address Indicator				
				f 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					
	Core		royidad			
		ening indicator=Network P entation restriction=allowe				
				ontity		
		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"				
SIP Parameter values						
on randictor values	From: contains a URI that encodes an E.164 address					
		Privacy: none				
Comments						
Message flows	Mg		MGCF	ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	100 Trying	<b>←</b>				
	,	=	ost test routine			

TP number	TP_401_021	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1						
Test Purpose name	INVITE received. F	rom header present, P-Asserted	-Identity present. Privacy header 'id',				
		arty number omitted					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the						
	From header conta	From header contains an URI that encodes an E.164 Address a Privacy header is set to					
	'id', an IAM is sent.						
			e address digits are derived from the				
			tion indicator is set to 'presentation				
		itional calling Party number para	meter is not present				
ISUP Parameter values	IAM: Calling part						
		incomplete indicator=Complete					
			ony (Recommendation E.164 [i.1])				
		of Address 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					
		ng 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"						
OID D	If NOA is 'international number" then set to "CC"+" NDC"+"SN"						
SIP Parameter values	INVITE: P-Asserted-Identity: present						
	From: contains a URI that encodes an E.164 address						
	Privacy:	Id					
Comments		NOOF.	IOLID				
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test r	outine				

TP number	TP_401_022	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1					
Test Purpose name	INVITE received. From head	ler present, P-Asserted-Ident	ity present. Privacy header 'user',			
	additional calling party numb	er omitted				
Test Purpose			ed-Identity is present and the			
	From header contains an UF	From header contains an URI that encodes an E.164 Address a Privacy header is set to				
	'user', an IAM is sent.					
			ress digits are derived from the			
			dicator is set to 'presentation			
		ing Party number parameter	is not present			
ISUP Parameter values	IAM: Calling party Number					
		te indicator=Complete				
		ndicator= <i>ISDN/Telephony (R</i>	ecommendation E.164 [i.1])			
	Nature of Address					
			C of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then					
	national (significant) number					
	else	eise international number				
		or=Network Provided				
	Presentation rest		lala matita e			
	Address signal derived from the P-Asserted-Identity  if NOA is "national (significant) number" then set to "NDC" + "SN"					
	if NOA is "national (significant) number" then set to "NDC" + "SN"					
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN"					
SIP Parameter values	INVITE: P-Asserted-Identity: present					
	From: contains a URI that encodes an E.164 address					
Comments	Privacy: user					
• • • • • • • • • • • • • • • • • • • •	Mg	MGCF	ISUP			
Message flows	INVITE		→ IAM			
		<del>7</del> ←	7 IAW			
	1.00,9					
		Apply post test routing	<del>2</del>			

TP number	TP_401_023	.2.6				
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1	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 omitted					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is prese					
	From header contains an URI that encodes an E.164 Address a Privacy header is set to					
	'header', an IAM is sent.					
	A Calling party number parameter is present and the address digits are deriv					
	P-Asserted-Identity header the Presentation restriction indicator is set to 'pre	esentation				
	restricted'. An Additional calling Party number parameter is not present					
ISUP Parameter 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 wh					
	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"					
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN"					
SIF Farailleter values	INVITE: P-Asserted-Identity: present					
	From: contains a URI that encodes an E.164 address					
Comments	Privacy: header					
• • • • • • • • • • • • • • • • • • • •	Mg MGCF IS	SUP				
Message flows	INVITE → IAM	DUF				
	-					
	Apply post test routine					

TP number	TP_401_024	Referer	ice	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 numbunavailable From	ber not received, Addi header is sent	tional calling party no	umber not received,	
Test Purpose	Ensure that on receipt of an IAM and no Calling party number and no Additional calling party number is present, an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to 'sip:unavailable@unknown.invalid'				
ISUP Parameter values	IAM: Calling party number not present Generic number (Additional calling party number) not present				
SIP Parameter values	INVITE: From: sip:unavailable@unknown.invalid P-Asserted-Identity not present				
Comments					
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	<b>→</b>	INVITE	
			+	100 Trying	
	Apply post test routine				

TP number	TP_401_025	Reference	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 receivallowed, From header containing		mber received presentation	
Test Purpose	Ensure that on receipt of an IAM and no Calling party number is present and an Additional calling party number is present, an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is derived from the additional calling party number or is network provided			
ISUP Parameter values	IAM: Calling party number no Generic number (Addition	ot present Sonal calling party number) pres	sent presentation allowed	
SIP Parameter values	INVITE: From: derived from the additional calling party number or network provided P-Asserted-Identity not present			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	Apply post test routine			

TP number	TP 401 026	ļ,	Reference		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		number not receive available From hea		arty nu	ımber received presentation
Test Purpose	Ensure that on receipt of an IAM and no Calling party number 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 'sip:unavailable@unknown.invalid'				
ISUP Parameter values	IAM: Calling party number not present Generic number (Additional calling party number) present presentation restricted				
SIP Parameter values	INVITE: From: sip:unavailable@unknown.invalid P-Asserted-Identity not present				
Comments			•		
Message flows	ISUF	<b>)</b>	MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
	Apply post test routine				

TP number	TP 401 027	Reference	7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIF	<del>,</del>	1 2 , 2 2		
Selection criteria	PICS 6.3.2/1				
Test Purpose name		mber received presentation allowerted-Identity header and From	ved, Additional calling party number not header are sent		
Test Purpose	indicator is set to present, an INVI address signals the address sign	Ensure that on receipt of an 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	J .	IAM: Calling party number present presentation allowed Generic number (Additional calling party number) not present			
SIP Parameter values	INVITE: From P-Ass	INVITE: From derived from the calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present			
Comments		•			
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	<ul><li>→ INVITE</li><li>← 100 Trying</li></ul>		
		Apply post test routine			

TP number	TP_401_028	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-C	DIR/		
Selection criteria	PICS 6.3.2/1			
Test Purpose name		umber received presentation allowed, entation allowed, P-Asserted-Identity h		
Test Purpose	indicator is set the Presentation A P-Asserted- party number a	n receipt of an IAM and a Calling party to 'presentation allowed' and an Addi on restriction indicator is set to 'preser Identity is present the URI is derived from the URI of the From header is dering party number. A Privacy header is I'	tional calling party number is present ntation allowed, an INVITE is sent. rom the address signals of the calling rived from the address signals of the	
ISUP Parameter values	_	party number present presentation all c number (Additional calling party num		
SIP Parameter values	INVITE: From derived from the additional calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
	Apply post test routine			

TP number	TP_401_029	Reference	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			d, Additional calling party number ty header and From header are sent		
Test Purpose	indicator is set to the Presentation r A P-Asserted-Ider party number and	Ensure that on receipt of an 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	0 1	rty number present presentation a umber (Additional calling party nu	allowed imber) present presentation restricted		
SIP Parameter values	INVITE: From derived from the calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
		← 100 Trying			
	Apply post test routine				

TP number	TP_401_030	Reference	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 presentation restricted, Addition wheader and From header are se			
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' 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 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 (Additional calling party number) not present				
SIP Parameter values	INVITE: From: sip:anonymous@anonymous.invalid P-Asserted-Identity derived from the calling party number Privacy: 'id'				
Comments					
Message flows	ISUP IAM →	MGCF → ← Apply post test routine	Mg INVITE 100 Trying		

TP number	TP_401_031	Reference	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			ted, Additional calling party number header and From header are sent		
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' 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 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 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	ISUP	MGCF	Mg		
	IAM	<b>→</b>	<ul><li>→ INVITE</li><li>← 100 Trying</li></ul>		
		Apply post test	routine		

TP number	TP_401_0	)32	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/O	IP-OIR/	•	•	
Selection criteria	PICS 6.3.2	2/1			
Test Purpose name				dditional calling party number der and From header are sent	
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' 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 set to the value 'sip:anonymous@anonymous.invalid'. A Privacy header is present the value is equal to 'id'				
ISUP Parameter values			esent presentation restrict onal calling party number)	ted presentation restricted	
SIP Parameter values	INVITE:	From: sip:anonymor	us@anonymous.invalid derived from the calling pa	•	
Comments					
Message flows	15	SUP	MGCF	Mg	
	IAM	<b>→</b>		→ INVITE	
				← 100 Trying	
			Apply post test routing	ne	

TP number	TP_401_033	Reference	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	d presentation restricted by the r	network, Additional calling				
	party number not received, F						
Test Purpose		AM and a Calling party number					
		n restricted by the network' and					
	number is not present, an IN\	/ITE is sent. A P-Asserted-Ident	ity is not present and the URI				
	of the From header is set to the	ne value 'sip: unavailable @host	portion'. A Privacy header is				
	not present or if present the v	alue 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	INVITE: From: sip:unavailable@hostportion						
	P-Asserted-Identity not present						
	Privacy not 'id' or Privacy header not present						
Comments	The 'hostportion' is implementation dependent						
Message flows	ISUP MGCF Mg						
	IAM →	<b>→</b>	INVITE				
		← 100 Trying					
		Apply post test routine					

TP number	TP_401_034	Refe	erence	7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-C	IR/				
Selection criteria	PICS 6.3.2/1					
Test Purpose name			entation restricted by the allowed, From header is	network, Additional calling sent		
Test Purpose	indicator is set number is pres INVITE is sent derived from the	Ensure that on receipt of an 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 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		IAM: Calling party number present presentation restricted by the network Generic number (Additional calling party number) present presentation allowed				
SIP Parameter values	INVITE: From					
Comments		•				
Message flows	ISUP MGCF Mg					
	IAM	9				
		Aŗ	ply post test routine			

TP number	TP_401_0	35	Reference		7.5.1, 7.2.3.2.2.3
TSS reference	IMS-SS/OI	IP-OIR/			
Selection criteria	PICS 6.3.2	2/1			
Test Purpose name	0 1	, ,	presentation restricted lation restricted, From h	,	network, Additional calling is sent
Test Purpose	Ensure that on receipt of an 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: unavailable@hostportion P-Asserted-Identity not present Privacy not 'id' or Privacy header not present				
Comments	The 'hostpe	ortion' is implementa	tion dependent		
Message flows	İS	SUP	MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
			Apply post test rou	tine	· -

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

TP number	TP_402_001	Reference	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 header contains the	option tag 'from-change'			
Test Purpose	Optional Forward (	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', an INVITE is sent and the Supported header contains 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					
Comments		<u>-</u>				
Message flows	Mg	MGCF	ISUP			
	IAM	<b>→</b>	→ INVITE			
	← 100 Trying					
		Apply post test routine				

TP number	TP_402_002	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/	•	•				
Selection criteria	PICS 6.3.1/2 AND P	PICS 6.3.2/2					
Test Purpose name	'from-change' tag no	t included in a received provisi	onal response				
Test Purpose		pt of a provisional response an soon as the 200 OK (INVITE) is	d the 'from-change' tag is not included received				
ISUP Parameter values		IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested					
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM	<b>→</b>	→ INVITE				
	ACM ← 180 Ringing						
	ANM	ANM ← 200 OK (INVITE)					
		→ ACK					
		Apply post test routine					

TP number	TP_402_003		Reference		7.5.2		
TSS reference	IMS-SS/TIP-7	TR/					
Selection criteria	PICS 6.3.1/2	AND PICS 6.3.2/2	)				
Test Purpose name	'from-change'	tag not included i	n a received final res	ponse			
Test Purpose		Ensure that on receipt of a final successful response and the 'from-change' tag is not included the ANM is sent					
ISUP Parameter values	IAM: Option	al Forward Call In	dicators				
	Co	nnected Line Iden	tity Request = reque	sted			
SIP Parameter values		INVITE: Supported: from-change					
	200: from-c	200: from-change tag not included in the Supported header					
Comments							
Message flows	Mg		MGCF		ISUP		
	IAM	<b>→</b>		<b>→</b>	INVITE		
	ACM ← 180 Ringing						
	ANM ← 200 OK (INVITE)						
		→ ACK					
			Apply post test ro	outine			

TP number	TP_402_004	Reference	7.5.2		
TSS reference	IMS-SS/TIP-TIR/		-		
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/2			
Test Purpose name		uded in a received provisiona	al response		
Test Purpose	timer T <sub>TIR1</sub> is started.	The ANM is sent as soon as	nd the 'from-change' tag is included the the UPDATE request is received and a set to 'additional connected number' is		
	present. The additional Nature of Address	al connected number is code Indicator	d as follows:		
	ISUP node is I	to the country code of the coulocated in the same country, to significant) number"	untry where SUT is located AND the next hen set to		
	"internation	nal number'			
	Number Incomple	te Indicator = complete			
		ndicator = <i>ISDN</i> ( <i>Telephony</i> )	numbering plan (Recommendation		
	E.164 [i.1])				
	Address Presentation Restricted Indicator = <b>Privacy_VA</b> 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 <b>NDC + SN</b> .				
	If NOA is "international number" then set to CC + NDC + SN				
	In addition a Connected number is present the address signal are derived from the				
	P-Asserted-Identity in UPDATE request				
ISUP Parameter values	IAM: Optional Forward Call Indicators				
	Connected Line Identity Request = requested				
	ANM: Connected number				
SIP Parameter values		Generic number - additional connected number			
on randileter values					
Comments	Too. Hom onange a	ag merada m me Cappenta	Troub.		
Message flows	Mg	MGCF	ISUP		
	IAM	<b>→</b>	→ INVITE		
	ACM ← 180 Ringing				
	T <sub>TIR1</sub> started ← 200 OK (INVITE)				
		→ ACK			
	ANM	<b>←</b>	← UPDATE		
			→ 200 OK (UPDATE)		
		Apply post test	,		

TP number	TP_402_005	Reference	7.5.2			
TSS reference	IMS-SS/TIP-TIR/	·	·			
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.1/2 AND PICS 6.3.2/2				
Test Purpose name	'from-change' tag i	included in a received final respo	nse			
Test Purpose			se and the 'from-change' tag is included as the UPDATE request is received			
	number' is present	t. The additional connected numb	cator set to 'additional connected per is coded as follows:			
	Nature of Addr					
			intry where SUT is located AND the next			
	"nationa	is located in the same country, that (significant) number"	nen set to			
	else set to					
		tional number"				
		plete Indicator = complete	numbering plan (Becommendation			
	E.164 [i.1])	In indicator = $15DN$ (Telephony)	numbering plan (Recommendation			
		entation Restricted Indicator - Pri	vacv. VA as indicate in table 6.3.2-1			
	Address Presentation Restricted Indicator = <b>Privacy_VA</b> as indicate in table 6.3.2-1 Screening Indicator = user provided, not verified					
	Address Signal					
	If NOA is "national (significant) number" then set to NDC + SN.					
	If NOA is "i	If NOA is "international number" then set to CC + NDC + SN				
	In addition a Connected number is present the address signal are derived from the					
	P-Asserted-Identity in UPDATE request					
ISUP Parameter values	IAM: Optional Forward Call Indicators					
	Connected Line Identity Request = requested					
	ANM: Connected number					
SIP Parameter values	Generic number - additional connected number  INVITE: Supported: from-change					
SIP Parameter values			haadar			
Comments	200. Hom-chang	ge tag included in the Supported	leadel			
Message flows	Mg	MGCF	ISUP			
Message nows	IAM	→	→ INVITE			
	ACM	É	← 180 Ringing			
	/ COIVI	T <sub>TIR1</sub> started ← 200 OK (INVITE)				
		TIR1 Started	→ ACK			
			7 ACK			
	ANM	<b>←</b>	← UPDATE			
	UI AIM	•	→ 200 OK (UPDATE)			
		Apply post test i	· · · · · · · · · · · · · · · · · · ·			

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	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	Timer T <sub>TIR1</sub> expires				
Test Purpose		Ensure that on receipt of a 200 OK (INVITE) and the 'from-change' tag is present in the Supported header the timer $T_{TIR1}$ is started. After expiry of $T_{TIR1}$ the ANM is sent			
ISUP Parameter values	IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested  ANM: Connected number				
SIP Parameter values		INVITE: Supported: from-change 200: from-change tag included in the Supported header			
Comments					
Message flows	Mg IAM →	MGCF →	ISUP INVITE		
	ACM <b>←</b>	T <sub>TIR1</sub> started ←	180 Ringing 200 OK (INVITE) ACK		
	ANM <b>←</b>	T <sub>TIR1</sub> expired  Apply post test routine			

TP number	TP_402_007	Reference	7.5.2	
TSS reference	IMS-SS/TIP-TIR/	·	•	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/2		
Test Purpose name	Interworking of SIP Sur	pported header into Optiona	al forward call indicator	
Test Purpose	Ensure that on receipt of an INVITE request and the Supported header contains the 'from-change' tag, an IAM is sent. The Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested'			
ISUP Parameter values		rd Call Indicators Line Identity Request = requ	uested	
SIP Parameter values	INVITE: Supported: f	from-change		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
		Apply post test	routine	

TP number	TP_402_008	Reference	7.5.2	
TSS reference	IMS-SS/TIP-TIR/	•	<u> </u>	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	Mapping of Additional con		tion allowed into the From header in an	
Test Purpose	UPDATE request.  Ensure that on receipt of a present, a 200 OK (INVITE P-Called-Party-ID header at The 200 OK (INVITE) is for connected number received Generic number.  Nature of Address Indicated "national (significant) in Add "+" CC (of the Signals then map to "international number" Map complete Gen portion of URI scheen Address Presentation restingersentation allowed the presentation of Invited and the presentation allowed the presentation received and the presentation received and the presentation received and the presentation received and the presentation allowed the presentation received and the presentation allowed the presentation allowed the presentation received and the presentation allowed the presentation and the presentation allowed the presentation and the presentation allowed the presentation and the p	n ANM and a Generic note) is sent and the P-Asse and the 'from-change' tag llowed by an UPDATE re ed in the ANM copied into or umber" country where the IWU is o user portion of URI sch eric Number Address Sig me used riction indicator then no Privacy header pr	umber additional connected number is erted-Identity copied from the g in the Supported header is present. equest, containing the 'additional to the From header as described below as located) to Generic Number Address	
ISUID Parameter values	Address Signals the "international number" Map complete Conportion of URI sche Address Presentation restropresentation allowed the Address Signals: "+" CC N	or umber" country where the IWU is en map to user portion of nected Number Address me used riction indicator nen no Privacy header pr IDC SN mapped to user	s located) to Connected Number	
ISUP Parameter values	ANM: Generic number additional conne	Identity Request = requected number	ested cator = presentation allowed	
SIP Parameter values	INVITE: Supported: from 200 OK: P-Asserted-Ider Supported: from UPDATE: From: <derived< th=""><th>n-change ntity n-change</th><th></th></derived<>	n-change ntity n-change		
Comments				
Message flows	Mg INVITE 180 Ringing 200 OK (INVITE)  UPDATE 200 OK (UPDATE)	<del>.</del> -	ISUP  → IAM ← ACM ← ANM	

TP number	TP_402_009	Reference	7.5.2		
TSS reference	IMS-SS/TIP-TIR/	1			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2				
Test Purpose name	Mapping of Additional connected number presentation restricted into the From header in				
-	an UPDATE request				
Test Purpose	Ensure that on receipt of	an ANM and a Generic num	ber additional connected number is		
		ΓE) is sent and the P-Asserte			
			the Supported header is present.		
			lest, containing the 'additional		
		ved in the ANM copied into the	ne From header as described below		
	Generic number				
	Nature of Address Indica				
	"national (significant)				
			ocated) to Generic Number Address		
		to user portion of URI schem	ne used		
	"international number				
	Map complete Ge	eneric Number Address Signa	ils used prefixed with a "+" to user		
	portion of URI sch				
	Address Presentation res				
		d then Privacy: <b>header</b> NDC SN mapped to user po	tion of LIPI sohome used		
	Address Signals. + CC	INDC SN mapped to user por	tion of ORI scheme used		
	The P-Asserted-Identity i	is derived from the Connecte	d number as follows		
	Connected number		a nambor ao ionovo		
	Nature of Address Indica	tor			
	"national (significant)	number"			
			ocated) to Connected Number		
		hen map to user portion of U			
	"international number	r" .			
	Map complete Co	nnected Number Address Signature	gnals used prefixed with a "+" to user		
	portion of URI sch				
	Address Presentation res				
		d then Privacy: <i>header</i>			
		NDC SN mapped to user por	rtion of URI scheme used		
ISUP Parameter values	IAM: Optional forward				
		ne Identity Request = request	ed		
	ANM: Generic number				
		nected number			
CID Damana (amanalasa		resentation restriction indicat	or = presentation restricted		
SIP Parameter values	INVITE: Supported: fro				
	200 OK: P-Asserted-Ide	•			
	Supported: fro	orn-change d from the additional connect	ad numbers		
		entity: <derived con<="" from="" th="" the=""><th></th></derived>			
Comments	1 -Asserted-tide	entity. <derived com<="" from="" th="" the=""><th>iected Humber&gt;</th></derived>	iected Humber>		
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	180 Ringing	<b>+</b>	← ACM		
	200 OK (INVITE)	<del>`</del>	← ANM		
	200 OK (IIIVIIL)	•	~ / // AIVI		
	UPDATE	<b>←</b>			
		<del>)</del>			
	200 OK (OI DAIL)	Apply post test rou	tine		
		Apply post test rot	ıııııc		

## 6.3.3 Communication Diversion (CDIV)

TP number	TP_403_001	Reference	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 ACM Redirection r	number	
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:</li> <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> <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: Redirection number Nature of address indicator Address signal			
SIP Parameter values	Derived from the last History-Info entry  181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:any>			
Comments	, , , , , , , , , , , , , , , , , , , ,			
Message flows	ISUP	MGCF	Mg	
	IAM → ←	Apply part test routin	INVITE 181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP_403_001A	Reference	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	Sending of Generic notification	'Call is diverting'			
Test Purpose	Ensure that on receipt of 181 ( notification indicator present in				
ISUP Parameter values	ACM: Generic Notification  call is diverting				
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_002	Reference	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	5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into ACM Redire	ection number restriction	
Test Purpose	Ensure that on receipt of 181 (			
	The Redirection number restric	tion is set according the e	scaped Privacy header in the	
	last History entry as indicated i	n table 6.3.3-1		
ISUP Parameter values	<b>ACM:</b> Redirection number res	triction= 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>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ACM ←	<del>-</del>	181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP_403_003	Reference	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	2/5			
Test Purpose name	Mapping of 181 Privacy head	er into ACM Redirection n	umber restriction		
Test Purpose	Ensure that on receipt of 181				
	The Redirection number restr	iction is set according the	Privacy header as indicated in		
	table 6.3.3-1	-			
ISUP Parameter values	ACM: Redirection number re	striction= PRES_restr			
SIP Parameter values	181:				
	Privacy= <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any pro<="" th=""><th>per URI;cause=any value</th><th>e&gt;; index=1.1</th></sip:any>	per URI;cause=any value	e>; index=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

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	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 Privacy head	der into ACM Notification sub	oscription options	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, an ACM is sent.			
	The Notification subscription	options in the Call Diversion	n Information parameter is set	
	according the Privacy heade	r in the message body as in	dicated in table 6.3.3-2	
ISUP Parameter values	ACM: Call Diversion Information	ation		
	Notification subsc	ription options=SUBS_optic	ons	
SIP Parameter values	181:			
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri;cause="any" value="">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments		•		
Message flows	ISUP	MGCF	Mg	
_	IAM →	<b>→</b>	INVITE	
	ACM <b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	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	;	7.5.4.2.1
				table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/	<u>.</u>		·
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5		
Test Purpose name	Mapping of 181	escaped Privacy header i	nto ACM Notifica	ation subscription options
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy header field in the last hi-targeted-to-uri, an ACM is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.3.3-3			
ISUP Parameter values	ACM: Call Diver			•
SIP Parameter values	181: History-Info:	<pre><sip:any proper="" uri="">; i <sip:any pre="" proper="" uri;cau<=""></sip:any></sip:any></pre>		Privacy= <b>Priv-value</b> >; index=1.1
Comments				
Message flows	ISUP	MGC	F	Mg
	IAM	<b>→</b>	<b>→</b>	NVITE
	ACM	<b>←</b>	<b>←</b> 1	81 Call Is Being Forwarded
	Apply post test routine			-

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	7.5.4.2.1		
	11 _ 100_000	1.0.0.0.00	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 ACM F	Redirecting Reason		
Test Purpose	Ensure that on rec	eipt of 181 (Call Is Being I	orwarded) an ACM is sent. The cause		
	parameter of the la	ast hi-entry is mapped into	the Redirecting reason in the Call Diversion		
	Information param	eter is set as indicated in t	able 6.3.3-4		
ISUP Parameter values	ACM: Generic No	tification			
	call is di	iverting			
	Redirection	number			
	Call Diversi	on Information			
	Redirec	ting reason = Redirecting	_Reason		
SIP Parameter values	181:				
	History-Info: <	<sip:any proper="" uri="">; inde</sip:any>	ex=1,		
		<sip:any proper="" th="" uri;cause<=""><th>e=CAUSE_value&gt;; index=1.1</th></sip:any>	e=CAUSE_value>; index=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → INVITE				
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	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	Referen	ce	7.5.4.2.1 table 7.5.4.2.1.7	
T00 (	IN 10 00 (0 DI) //	<u>l</u>		table 7.5.4.2.1.7	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.5/3 AN	<u>ID PICS 6.3.1/2 AND PI</u>	CS 6.3.2/5		
Test Purpose name	Mapping of 181	hi-targeted-to-uri cause	parameter into	CPG Event indicator	
Test Purpose	Ensure that on re	eceipt of 181 (Call Is Be	ing Forwarded	) a CPG is sent. The Event indicator	
-	is set to 'Redired	cting_Reason' as indica	ited in table 6.3	3.3-5	
ISUP Parameter values	CPG: Event=Re	CPG: Event=Redirecting_Reason			
	Generic N	Notification			
	call is	diverting			
		on number			
		rsion Information			
SIP Parameter values	181:				
	History-Info:	<sip:any proper="" uri="">;</sip:any>	index=1.		
	, , ,	<sip:any proper="" th="" uri;ca<=""><th></th><th>_value&gt;; index=1.1</th></sip:any>		_value>; index=1.1	
Comments		· · · · · · · · · · · · · · · · · · ·	_		
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	CPG	<del>-</del>	<b>←</b>	181 Call Is Being Forwarded	
	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	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	2/5			
Test Purpose name	Mapping of 181 hi-targeted-to	-uri into CPG Redirection	number		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 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:				
	country code is removed Redirection number.	from the digit string and s	nificant) number', '+' and the sent in the Address signal of the		
	SUT is located: Nature of	address indicator is set t	qual the country code where the o 'international number' '+' is ess signal of the Redirection number		
ISUP Parameter values	CPG: 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>•</th><th></th></sip:any>	•			
	<sip:<b>any pr</sip:<b>	oper URI;cause=any>; in	dex=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM <b>←</b>	+	180 Ringing		
	CPG ←	<b>+</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_008A	Refe	rence	7.5.4.2.1		
				table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5				
Test Purpose name	Sending of Gene	ric notification 'Call i	s diverting'			
Test Purpose	entry contains a	Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The History-Info entry contains a cause parameter. A Generic notification parameter is present in the CPG message set to 'Call is diverting'				
ISUP Parameter values	CPG: Generic N call is	lotification diverting				
SIP Parameter values	181: History-Info:	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:any>				
Comments			<u> </u>			
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	+	180 Ringing		
	CPG	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine					

TP number	TP_403_008B	Reference	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	Sending of CPG Event indicate	or 'Progress'			
Test Purpose	Ensure that on receipt of 181 (	Call Is Being Forwarded)	a CPG is sent. The History-Info		
	entry contains a cause parame	ter. The Event indicator in	the CPG is set to 'Progress'		
ISUP Parameter values	CPG: Event indicator				
	Progress				
SIP Parameter values	181:				
	History-Info: <sip:any pro<="" th=""><th>per URI&gt;; index=1,</th><th></th></sip:any>	per URI>; index=1,			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	CPG ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_009	Reference	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 escaped Priva	acy header into CPG Redi	rection number restriction		
Test Purpose	Ensure that on receipt of 181				
	The Redirection number restri	ction is set according the	escaped Privacy header in the		
	last History entry as indicated	in table 6.3.3-1			
ISUP Parameter values	CPG: Redirection number res	striction = 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>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	CPG ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP 403 010	Reference	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 PI	CS 6.3.2/5			
Test Purpose name	Mapping of 181 Priva	cy header into early CPG R	edirection number restriction		
Test Purpose		ot of 181 (Call Is Being Forw			
	The Redirection num	ber restriction is set accordi	ng the <b>Privacy header</b> as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	CPG: Redirection nu	umber restriction = PRES_re	estr		
SIP Parameter values	181:				
	Privacy= <b>Priv-val</b> t	ue			
	History-Info: <si< th=""><th>p:any proper URI&gt;; index=1</th><th></th></si<>	p:any proper URI>; index=1			
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	<ul> <li>180 Ringing</li> </ul>		
	CPG	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	Apply post test routine				

TP number	TP_403_011	Refer	ence	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 P	rivacy header into C	PG Notification su	bscription options	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a CPG is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.3.3-2				
ISUP Parameter values	CPG: Call Diversion Information  Notification subscription options=SUBS_options				
SIP Parameter values	181:  **Privacy: *Priv-value**  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any proper="" uri:cause="any" value="">; index=1.1</sip:any></sip:any>				
Comments	Topologically propor or tijoudoo any ratuo, indox				
Message flows	ISUP MGCF Mg				
_	IAM ACM CPG	→ ← ← App	→ ← ← ly post test routi	INVITE 180 Ringing 181 Call Is Being Forwarded ne	

TP number	TP_403_012	Reference	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 Priva	cy header into CPG Notifica	tion subscription options		
Test Purpose	Ensure that on receipt of 181 (	Call Is Being Forwarded) co	ntaining an escaped Privacy		
	header field in the last hi-targer				
	The Notification subscription of	otions in the Call Diversion I	nformation parameter is set		
	according the escaped Privacy	header in the last History e	ntry as indicated in table 6.3.3-3		
ISUP Parameter values	CPG: Call Diversion Informati	on			
	Notification subscrip	tion options=SUBS_option	S		
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>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b> II	NVITE		
	ACM ←	<b>←</b> 1	80 Ringing		
	CPG ←	<b>←</b> 1	81 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_013	Reference	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/	<sup>'</sup> 5			
Test Purpose name	Mapping of 181 hi-targeted-to-	uri into CPG Redirecting Rea	ason		
Test Purpose	Ensure that on receipt of 181 (	Call Is Being Forwarded) a C	PG is sent. The History-Info		
	entry containing a cause parar	neter is mapped into the Rec	lirecting reason in the Call		
	Diversion Information paramet	er is set as indicated in table	6.3.3-4		
ISUP Parameter values	CPG: 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>				
	<pre><sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> IN	VITE		
	ACM ←	<b>←</b> 18	30 Ringing		
	CPG ←	<b>←</b> 18	31 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP 403 014	Reference	7.5.4.2.1		
Transo.	11 _ 100_011	1.010101100	table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/	1	10010 7 101 112.11.2		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into ACM Redirection nu	mber		
Test Purpose	Ensure that on receipt of 180 (Ringing) an 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.				
	SUT is located: Nature of	address indicator is set to 'i	If the country code where the nternational number' '+' is signal of the Redirection number		
ISUP Parameter values	ACM: Backward call indicator				
	Called party status=subscriber free				
	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>per URI&gt;; index=1, per URI;cause=any&gt;; index</th><th>c=1.1</th></sip:any>	per URI>; index=1, per URI;cause=any>; index	c=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	NVITE		
	ACM ←	<b>←</b> 1	80 Ringing		
	Apply post test routine				

TP number	TP_403_014A	Reference	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/	<b>′</b> 5			
Test Purpose name	Sending of Generic notification	n 'Call is diverting'			
Test Purpose	Ensure that on receipt of 180 (				
	History-Info entry contains a ca	ause parameter. A Generi	ic notification parameter is present		
	in the sent ACM set to 'Call is	diverting'.			
ISUP Parameter values	ACM: Generic Notification				
	call is diverting				
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>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_403_015	Reference	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 180 escaped Priva	acy header into ACM Redirecti	on number restriction		
Test Purpose	Ensure that on receipt of 180 (				
	The Redirection number restri		ped Privacy header in the		
	last History entry as indicated	in table 6.3.3-1			
ISUP Parameter values	<b>ACM:</b> Backward call indicator	•			
	Called party status=				
	Redirection number res	striction= PRES_restr			
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any privacy="Priv-value" proper="" uri;cause="any?">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> IN\	/ITE		
	ACM ←	<b>←</b> 180	) Ringing		
	Apply post test routine				

TP number	TP_403_016	Referer	ice	7.5.4.2.1	
				table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AN	ID PICS 6.3.2/5			
Test Purpose name	Mapping of 180	Privacy header into AC	M Redirection n	number restriction	
Test Purpose	Ensure that on receipt of 180 (Ringing), an 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		d call indicator d party status=subscribe on number restriction=			
SIP Parameter values	180:  Privacy=Priv-value  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP	MC	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM ← 180 Ringing				
	Apply post test routine				

TP number	TP_403_017	Refere	ence	7.5.4.2.1	
				table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 ANI	D PICS 6.3.2/5			
Test Purpose name	Mapping of 180 F	Privacy header into A	CM Notification su	ubscription options	
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header, an ACM (subscriber free) is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the <b>Privacy header</b> in the message body as indicated in table 6.3.3-2				
ISUP Parameter values	ACM: Backward call indicator Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS options				
SIP Parameter values	180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP IAM ACM	<b>→</b> ←	IGCF → ←	<b>Mg</b> INVITE 180 Ringing	
	Apply post test routine				

TP number	TP 403 018	Reference	7.5.4.2.1		
			table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	1	1,22,2,2		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/5			
Test Purpose name	Mapping of 181 escaped Priv	acy header into ACM Notif	fication subscription options		
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, an ACM (subscriber free) is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in				
	table 6.3.3-3	•	•		
ISUP Parameter values	ACM: Backward call indicate	or			
	Called party status	s=subscriber free			
	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 privacy="Priv-value" proper="" uri;cause="any" value?="">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_403_019	Refer	ence	7.5.4.2.1	
				table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5			
Test Purpose name	Mapping of 180 h	ni-targeted-to-uri into	ACM Redirecting	Reason	
Test Purpose				iber free) is sent. The last	
				ped into the Redirecting reason in	
	the Call Diversion	n Information parame	ter is set as indica	ated in table 6.3.3-4	
ISUP Parameter values	ACM: Backward	I call indicator			
	Called	I party status=subscr	ber free		
	Redirection	on number			
	Call Diversion Information				
	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri;cause="CAUSE_value">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	N	<b>IGCF</b>	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<del>(</del>	<del>(</del>	180 Ringing	
	Apply post test routine				

TP number	TP_403_020	Reference	7.5.4.2.1		
	11 _ 100_020	1101010100	table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/		10000		
Selection criteria	PICS 6.3.1/2 AND PICS 6.	3.2/5			
Test Purpose name	Mapping of 180 hi-targeted	I-to-uri into CPG Redirection	number		
Test Purpose	<ul><li>containing a cause parame</li><li>If CC of the hi-targetee</li></ul>	eter is mapped into the Redir d-to-uri is equal the country o	is sent. The last History-Info entry rection number: code where the SUT is located: nificant) number', '+' and the		
	country code is remov Redirection number.	ed from the digit string and s	sent in the Address signal of the		
	SUT is located: Nature	e of address indicator is set t	qual the country code where the o 'international number' '+' is ess signal of the Redirection number		
ISUP Parameter values	CPG: Redirection number  Nature of address indicator				
	Address signal				
SIP Parameter values	Derived from the last History-Info entry				
or rarameter values	180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	<b>→</b>	INVITE		
	ACM <b>€</b>		181 Call Is Being Forwarded		
	CPG <b>€</b>	<del>=</del>	180 Ringing		
		Apply post test routine			

TP number	TP_403_020A	Reference	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	Sending of Generic notification	'Call is diverting'				
Test Purpose	Ensure that on receipt of 180 (Ringing) a CPG Alerting is sent. The last History-Info entry contains a cause parameter. A Generic notification parameter is present in the sent CPG set to 'Call is diverting'.					
ISUP Parameter values	<b>CPG:</b> Generic Notification call is diverting					
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>					
Comments						
Message flows	ISUP MGCF Mg					
	IAM →	<b>→</b> 1	NVITE			
	ACM ←	<b>←</b> ·	81 Call Is Being Forwarded			
	CPG ←	<b>←</b> ·	180 Ringing			
	Apply post test routine					

TP number	TP_403_020B	Reference	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 PIC	CS 6.3.2/5			
Test Purpose name	Sending of Event indic	cator 'Alerting'			
Test Purpose	Ensure that on receipt of 180 (Ringing) a CPG Alerting is sent. The last History-Info entry contains a cause parameter. The Event indicator in the sent CPG is set to 'Alerting'.				
ISUP Parameter values	CPG: Event=Alerting				
SIP Parameter values	180:				
	History-Info: <sip< th=""><th>:any proper URI&gt;; index=1,</th><th></th></sip<>	:any proper URI>; index=1,			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 181 Call Is Being Forwarded		
	CPG	<b>←</b>	← 180 Ringing		
	Apply post test routine				

TP number	TP_403_021	Reference	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	5			
Test Purpose name	Mapping of 180 escaped Priva	cy header into CPG Redir	ection number restriction		
Test Purpose	Ensure that on receipt of 180 (				
	The Redirection number restric	tion is set according the e	scaped Privacy header in the		
	last History entry as indicated i	n table 6.3.3-1			
ISUP Parameter values	CPG: Event=Alerting				
	Redirection number res	triction= PRES_restr			
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any?Privacy=Priv-value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	CPG ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_403_022	Reference	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	5		
Test Purpose name	Mapping of 180 Privacy header	rinto CPG Redirection nun	nber restriction	
Test Purpose	Ensure that on receipt of 180 (I			
	The Redirection number restrict	tion is set according the <b>P</b> i	rivacy header as indicated in	
	table 6.3.3-1			
ISUP Parameter values	CPG: Event=Alerting			
	Redirection number res	Redirection number restriction= 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>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	NVITE	
	ACM <b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	CPG ←	←	180 Ringing	
	Apply post test routine			

TP number	TP_403_023	Reference	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 F	PICS 6.3.2/5		
Test Purpose name	Mapping of 180 Priv	vacy header into CPG Notifi	cation subscription options	
Test Purpose	sent.	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a CPG Alerting is sent.		
			Diversion Information parameter is set body as indicated in table 6.3.3-2	
ISUP Parameter values	CPG: Event=Alerti	CPG: Event=Alerting		
	Call Diversion	n Information		
	Notification subscription options=SUBS_options			
SIP Parameter values	180:			
	Privacy: <b>Priv-va</b>	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>		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	★ 181 Call Is Being Forwarded	
	CPG	<b>←</b>	← 180 Ringing	
	Apply post test routine			

TP number	TP_403_024	Reference	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 es	caped Privacy header into	CPG Notification subscription options
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, a CPG Alerting is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the <b>escaped Privacy header</b> in the last History entry as indicated in table 6.3.3-3		
ISUP Parameter values	CPG: Event=Alerting Call Diversion Information Notification subscription options=SUBS_options		
SIP Parameter values	180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" privacy="Priv-value" proper="" uri;="" value?="">; index=1.1</sip:any></sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM ACM CPG	→ ← ←	→ INVITE  ← 181 Call Is Being Forwarded  ← 180 Ringing
	Apply post test routine		

TP number	TP 403 025	Ref	erence	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 180 h	i-targeted-to-uri in	to CPG Redirecting	Reason
Test Purpose				is sent. The last History-Info entry
				ecting reason in the Call Diversion
	Information param	neter is set as indi	cated in table 6.3.3-	4
ISUP Parameter values	CPG: Event=Alerting			
	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>			
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	+	181 Call Is Being Forwarded
	CPG	<b>←</b>	<b>←</b>	180 Ringing
		Apply post test routine		

TP number	TP_403_026	Reference	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	5		
Test Purpose name	Mapping of 200 OK hi-targeted			
Test Purpose		Ensure that on receipt of 200 OK (INVITE) an ANM is sent. The last History-Info entry		
	containing a cause parameter i	is mapped into the Redirec	tion number:	
			de where the SUT is located:	
			icant) number', '+' and the	
	Redirection number.	rom the digit string and ser	nt in the Address signal of the	
		ni targeted to uri is not equ	al 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	ANM: Redirection number	rig and cont in the Address	o digital of the reduced of than ber	
leer ranameter values	Nature of address indicator			
	Address signal	Address signal		
		last History-Info entry		
SIP Parameter values	200:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →		INVITE	
	ACM <b>←</b>		181 Call Is Being Forwarded	
	CPG		180 Ringing	
	ANM ←		200 OK INVITE	
		· · · · · · · · · · · · · · · · · · ·	ACK	
		Apply post test routine	9	

TP number	TP 403 027	Reference	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 PI	CS 6.3.2/5			
Test Purpose name	Mapping of 200 esca	ped Privacy header into AN	IM Redirection number restriction		
Test Purpose		ot of 200 (INVITE), an ANM			
	The Redirection num	ber restriction is set accord	ing the <b>escaped Privacy header</b> in the		
	last History entry as i	last History entry as indicated in table 6.3.3-1			
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr				
SIP Parameter values	200 OK:	200 OK:			
	History-Info: <si< th=""><th colspan="4">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></si<>	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>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	←	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	CPG	<b>←</b>	← 180 Ringing		
	ANM	<b>←</b>	← 200 OK INVITE		
			→ ACK		
		Apply post te	st routine		

TP number	TP_403_028	Reference	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 PI	CS 6.3.2/5			
Test Purpose name	Mapping of 200 Priva	cy header into ANM Redired	ction number restriction		
Test Purpose		ot of 200 OK (INVITE), an AN			
	The Redirection num	ber restriction is set accordir	ng the <b>Privacy header</b> as indicated in		
	table 6.3.3-1				
ISUP Parameter values	ANM: Redirection nu	ANM: Redirection number restriction= PRES_restr			
SIP Parameter values	200 OK:				
	Privacy= <b>Priv-value</b>				
	History-Info: <si< th=""><th colspan="4">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></si<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 181 Call Is Being Forwarded		
	CPG	<b>←</b>	← 180 Ringing		
	ANM	<b>←</b>	€ 200 OK INVITE		
		-	→ ACK		
		Apply post test	2 71011		

TP number	TP_403_029	Reference	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 200 OK hi-target	ed-to-uri into CON Redirec	tion number
Test Purpose	Ensure that on receipt of 200 OK (INVITE) a 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 address indicator		
	Address signal		
	Derived from the last History-Info entry		
SIP Parameter values	200 OK:		
	History-Info: <sip:any proper="" uri="">; index=1, <sip:any index="1.1&lt;/th" proper="" uri;cause="any" value;=""></sip:any></sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	CON ←	<b>←</b>	200 OK INVITE
		<b>→</b>	ACK
		Apply post test routi	ne

TP number	TP_403_030	Reference	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	5		
Test Purpose name	Mapping of 200 escaped Priva	cy header into CON Redire	ection number restriction	
Test Purpose	Ensure that on receipt of 200 (			
	The Redirection number restric	tion is set according the e	scaped Privacy header in the	
	last History entry as indicated in table 6.3.3-1			
ISUP Parameter values	CON: 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>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b>	INVITE	
	CON ←	<b>←</b>	200 OK INVITE	
		<b>→</b>	ACK	
	Apply post test routine			

TP number	TP 403 031	Reference	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/	75		
Test Purpose name	Mapping of 200 Privacy heade	r into CON Redirection number	er restriction	
Test Purpose	Ensure that on receipt of 200 (			
	The Redirection number restric	ction is set according the <b>Priv</b>	acy header as indicated in	
	table 6.3.3-1			
ISUP Parameter values	CON: Redirection number res	striction= PRES_restr		
SIP Parameter values	200 OK:			
	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>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ IN\	/ITE	
	CON ←	← 200	OK INVITE	
	→ ACK			
	Apply post test routine			

TP number	TP_403_032	Reference	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 Redirecting nu	ımber Address signals in	to History-Info header URI
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter, an Original called 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 <b>Value of Redirecting number</b> is mapped from the Redirecting number Address Signals as indicated in table 6.3.3-6		
ISUP Parameter values	IAM: Redirecting number     Nature of Address: NoA_value     Address Signals <any appropriate="" value="">     Redirection Information     Redirection counter=2     Original called number</any>		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip:value cause="any" number;="" of="" redirecting="">; index=1.1     <sip: any="" cause="any" proper="" uri;="">; index=1.1.1</sip:></sip:value></sip:any>		
Comments			·
Message flows	ISUP	MGCF	Mg
IAM → INVITE Apply post test routine			

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	, ,	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	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 Redirecting number Address presentation restricted into History-Info header		
	Privacy value		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting, an Original called number		
	parameter number parameter a		
	is sent and a History-Info head		
	hi-targeted-to-uri and the PRIV		
	indicator of the Redirecting number as indicated in table 6.2.5-7		
ISUP Parameter values	IAM: Redirecting number		
	Address presentation restricted indicator: APRI_value		
	Redirection Information		
	Redirection counter=2		
	Original called 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:>		
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>		
Comments		<u> </u>	
Message flows	ISUP	MGCF	Mg
	IAM →	→ INV	ITE
	Apply post test 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	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 Information	ation Redirecting indicator	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number, an Original called		
	number parameter and a Redirection Information parameter, an INVITE request is sent and		
	a History-Info header is presen	nt. A Privacy header is escape	d in the second last
	hi-targeted-to-uri and the PRIV	_value is mapped from the R	edirecting indicator of the
	Redirection Information as indicated in table 6.2.5-21		
ISUP Parameter values	IAM: Redirection Information		
	Redirection counter=2		
	Redirecting indicator=RDIND_value		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip: any="" proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1</sip:></pre>		
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b> IN\	/ITE
		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	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 P	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Redirecti	Mapping of Redirection Information Redirection counter		
Test Purpose	Ensure that on receipt of an 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 indicated in table 6.3.3-9			
ISUP Parameter values	IAM: Redirection In Redirection	nformation on counter=RDCONT_value		
SIP Parameter values	INVITE: History-Info: HI-	-ENTRY_values		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
		Apply post tes	t 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	<sip:represents called="" number="" original="" the="">; index=1,</sip:represents>	
		<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="any" 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="any">; 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	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>	
		<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=1.1.1.1.1</sip:>	
VA_05	5	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	
		<sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:>	
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:>	
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:>	
		<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_403_036	Reference	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 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Redire	ection Information Original redirection	ction reason	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Original redirection reason indicator <b>'unknown'</b> of the Redirection Information is mapped into the cause parameter <b>'404'</b> of the second hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-10			
ISUP Parameter values	IAM: Redirection Information Redirection counter=2 Original redirection reason=unknown			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	→ Apply post test	→ INVITE routine	

Table 6.3.3-10: Void

TP number	TP 403 037	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 ANI	D PICS 6.3.2/5	
Test Purpose name		ection Information Redirecting rea	
Test Purpose	Ensure that on receipt of an 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 =REAS value		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
Comments			
Message flows	ISUP MGCF Mg		
	IAM → INVITE		
	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	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			
Test Purpose name	Mapping of Called party	number Address Signals		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The Called party number is mapped into the last hi-targeted-to-uri of the History-Info header as indicated in table 6.3.3-12			
ISUP Parameter values	IAM: Called party number Nature of Address: NoA_value Address Signals			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

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	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 403 039	Reference	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 Original called nur	mber Address Signals		
Test Purpose		AM containing an Original called		
		neter, an INVITE request is sen		
		hi-targeted-to-uri Value of Orig		
	mapped from the Original call	mapped from the Original called number Address 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 < Digits>			
SIP Parameter values	INVITE:			
		of Original called number>; in		
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	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	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/	75		
Test Purpose name	Mapping of Original called num	nber Address presentation re-	stricted indicator	
Test Purpose	Ensure that on receipt of an IA			
	INVITE request is sent and a F			
	the first hi-targeted-to-uri and t			
	restricted indicator of the Origin	nal called number as indicate	d in table 6.3.3-14	
ISUP Parameter values	IAM: Original called number			
	Address presentation restricted indicator: APRI_value			
	Address Signals <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>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	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	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 haddress indicator	eader field entry mapped into	Redirecting number Nature of	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 Redirecting number is mapped from the hi-targeted-to-uri in hi-entry before last hi-entry containing a cause-param URI parameter as indicated in table 6.3.3-15			
ISUP Parameter values	IAM: Redirecting number			
	Nature of address indicator=NoA_value			
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
		nd last entry URI;cause=any:		
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></pre>			
Comments				
Message flows	Mg MGCF ISUP			
	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
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 403 042	Refere	nce	7.5.4.3
				table 7.5.4.3.2
TSS reference	IMS-SS/CDIV/	<u> </u>		
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5		
Test Purpose name	Second latest His signal	Second latest History-Info header field entry is mapped into Redirecting number Address signal		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 hi-targeted-to-uri in hi-entry before last hi-entry containing a cause-param URI parameter in the format <b>+'CC+NDC+SN'</b> as indicated in table 6.3.3-16			
ISUP Parameter values	IAM: Redirecting number Address signal derived from the second last Hist-entry			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	Mg INVITE 100 Trying	<b>→</b> ← Apply	MGCF  →  post test routine	ISUP IAM

Table 6.3.3-16: 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 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
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 Redirecting number Address signal

TP number	TP_403_043	Reference	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	5	
Test Purpose name	Second latest History-Info head number Address presentation r		mapped into Redirecting
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 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 presentation restricted indicator=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</sip:any></sip:any></sip:any>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE → IAM 100 Trying ←		
	Apply post test routine		

TP number	TP 403 044	Reference	7.5.4.3
	11 _ 100_0 1 1		table 7.5.4.3.2
TSS reference	IMS-SS/CDIV/		Table 7.5.4.5.2
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	Privacy header is mapped into		presentation restricted
rest i dipose name	indicator	reduceding number reduces p	oresentation restricted
Test Purpose	Ensure that on receipt of an IN	VITE request containing a Hist	tory-Info header, an IAM is
	sent and a Redirecting number		
	parameter is present. The <b>Add</b>		
	number is mapped from the Pr		
	table 6.3.3-17.		TTT = Toquost as in alloated in
ISUP Parameter values	IAM: Redirecting number		
	Address presentation restricted indicator=APRI_value		
SIP Parameter values	INVITE:		
	Privacy: PRIV_value		
	History-Info:		
	<sip:any proper="" uri="">; in</sip:any>	ndex=1,	
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>		
Comments			
Message flows	Mg	MGCF	ISUP
_	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	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	5	
Test Purpose name	Escaped Privacy header is ma	oped into Redirection informat	ion Redirecting indicator
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 escaped 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 table 6.3.3-18		
ISUP Parameter values	IAM: Redirection information Redirecting indicato	•	
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?Privacy=PRIV_value">; index=1.1.1</sip:any></sip:any></sip:any>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying Apply post test routine		

TP number	TP 403 046	Reference	7.5.4.3
	1		table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/		1.0.1.0.0
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/9	5	
Test Purpose name	Privacy header is mapped into	Redirection information Redire	ecting indicator
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 information Redirecting indicato	r=RDIND_value	
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any proper="" uri="">; index=1,     <sip:any proper="" uri;cause="any">; index=1.1,     <sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></sip:any></sip:any>		
Comments		· ·	
Message flows	Mg	MGCF	ISUP
	INVITE → IAM		
	100 Trying ←		
	Apply post test routine		

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	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	'cause' parameter is mapped ir	nto Redirection information Re	directing reason	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 information is mapped from the cause parameter of the latest History-Info header field entry containing a cause parameter in the received INVITE request as indicated in table 6.3.3-19			
ISUP Parameter values	IAM: Redirection information Original redirection			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip:any proper="" uri;cause="any">; index=1.1,     <sip:any cause="Cause_value" proper="" uri;="">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM	
	Apply post test routine			

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	Refe	rence	7.5.4.3
				table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AN	ID PICS 6.3.2/5		
Test Purpose name	Hi-index is mapp	oed into Redirection i	nformation Redirection	counter
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 6.3.3-20. 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_values		
Comments	•			
Message flows	Mg INVITE 100 Trying	<b>→</b>	MGCF →	ISUP IAM
	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
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1</sip:represents></pre>	
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
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1</sip:represents></pre>	
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>	
	<sip:any proper="" uri;cause="any">; index=1.1.1,</sip:any>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1.1,</sip:represents></pre>	
	<sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1.1</sip:represents>	
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	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 Or	iginal called number Nature of
	address indicator		
Test Purpose			ng a History-Info header, an IAM is
			nber and a Redirection information
			tor of the Original called is mapped
		header field entry in the forr	nat +'CC+NDC+SN' as indicated in
	table 6.3.3-21		
ISUP Parameter values	IAM: Original called nu		
	Numbering Pla	an Indicator= <i>ISDN (Telephoi</i>	<i>37</i>
	(Recommendation E.164 [i.1])		
	Nature of address indicator= <b>NoA_value</b>		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" th="" u<=""><th></th><th></th></sip:first>		
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>		
Comments			
Message flows	Mg MGCF ISUP		
	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	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	2/5		
Test Purpose name	First History-Info header field	entry is mapped into Original o	called Address signal	
Test Purpose	sent and a Redirecting number parameter is present. The <b>Ad</b>	Ensure that on receipt of an INVITE request containing a History-Info header, an 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 <b>+'CC+NDC+SN'</b> as indicated in		
ISUP Parameter values	IAM: Original called  Numbering Plan Indicator=ISDN (Telephony) numbering plan  (Recommendation E.164 [i.1])  Address signal derived from the first Hist-entry			
SIP Parameter values	INVITE:  History-Info: <sip:first entry="" uri="">;     <sip:any proper="" th="" uri;ca<=""><th>index=1,</th><th></th></sip:any></sip:first>	index=1,		
Comments	1 71 1	,		
Message flows		MGCF  →  Apply post test routine	ISUP IAM	

Table 6.3.3-22: Mapping of first Hist-entry into Original called number Address signal

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

TP number	TP 403 051	Reference	7.5.4.3	
	1		table 7.5.4.3.4	
TSS reference	IMS-SS/CDIV/		1,111	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/9	5		
Test Purpose name		First History-Info header field entry escaped 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 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 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=APRI value			
SIP Parameter values	INVITE:  History-Info: <sip:first entry="" uri?privacy="PRIV_value">; index=1,  <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:first>			
Comments				
Message flows	Mg INVITE → 100 Trying ←	=	ISUP IAM	
	Apply post test routine			

TP number	TP_403_052	Reference	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	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 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 6.3.3-23		
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="">; ii  <sip:any proper="" th="" uri;cal<=""><th></th><th></th></sip:any></sip:first>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	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	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/	75			
Test Purpose name	Mapping of ACM Redirection r	number into 181 (Being forward	ded) History-Info header		
Test Purpose	Ensure that on receipt of an A	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is			
	present as an indication a call				
		pped into the hi-targeted-to-uri			
	containing one hi-entry in the s		5.3.3-24		
ISUP Parameter values	ACM: Backward call indicator				
	Called party statue=				
	Generic notification=call is diverting				
	Call diversion information				
	Redirection number				
	Nature of address indicator= <b>NOA_value</b>				
	Address signal <b>Digits</b>				
SIP Parameter values	181:				
	History-Info: sip: LAST_H	IIST_URI;cause=any>; index=	1		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	INVITE → IAM			
	181 Being forwarded ← ← ACM				
	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	, ,	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		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	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	5		
Test Purpose name	Mapping of ACM Redirecting re parameter	Mapping of ACM Redirecting reason into 181 (Being forwarded) History-Info header cause parameter		
Test Purpose	Ensure that on receipt of an 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			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	181 Being forwarded ←	<b>←</b>	ACM	
		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	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 ACM Notifica	tion subscription options no	o 181 (Being forwarded) is sent	
Test Purpose	present as an indication a	Ensure that on receipt of an 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 <b>presentation not allowed</b> no 181 (Being		
ISUP Parameter values	ACM:  Generic notificatio  Redirection number  Call diversion info  Notification sul	er	ation not allowed	
SIP Parameter values				
Comments				
Message flows	Mg INVITE 181 Being forwarded	MGCF → ← Apply post test re	ISUP  → IAM ← ACM  putine	

TP number	TP_403_056	Reference	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	5	
Test Purpose name	Mapping of ACM Notification so Privacy header	ubscription options into 181 (Be	eing forwarded) escaped
Test Purpose	Ensure that on receipt of an 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 Notification subscription options is mapped 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 6.3.3-26		
ISUP Parameter values	ACM: Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=NSO value		
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=any?Privacy=PRIV_value>; index=1		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE ->	<del>-</del>	IAM
	181 Being forwarded	<del>=</del>	ACM
		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	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 CPG Redirection r	number into 181 (Being forward	ed) History-Info header				
Test Purpose	Ensure that on receipt of a 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</sip:last_hist_uri;cause=any>						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE -	· -	IAM				
	180 Ringing ←	·	ACM				
	181 Being forwarded ← ← CPG						
	Apply post test routine						

TP number	TP_403_058	Reference	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 CPG Redirecting representation	eason into 181 (Being forward	ed) History-Info header cause			
Test Purpose	parameter  Ensure that on receipt of a CP	C the Event indicator is get to	'Drograss' a Radiraction			
rest ruipose	number and the Call diversion					
	occurred, a 181 (Being forward	•				
	reason is mapped into the <b>cau</b>					
	header in the sent 181 as indic		geteu-to-un in a mistory-inio			
ISUP Parameter values	CPG: Event=Progress	Lated III lable 0.5.5-25				
130F Farameter values	Generic notification=ca	Il is divorting				
	Redirection number	ii is diverting				
	Call diversion information	an.				
	Redirecting reason	<del>-</del> : :				
SIP Parameter values	181:	=NLAS_value				
SIF Farailleter values	History-Info:					
	•	ection number in ACM;cause=	Cause values: index=1			
Comments	Csip.delived from Redii	ection number in Acivi,cause=	-cause_value>, Index=1			
Message flows	Mg	MGCF	ISUP			
Wessage nows	_					
	INVITE		IAM			
	180 Ringing ← ← ACM					
	181 Being forwarded ← CPG					
		Apply post test routine				

TP number	TP_403_059	Reference	e	7.5.4.3		
				table 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/			•		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5				
Test Purpose name	Mapping of CPG Notif forwarded) is sent	ication subscription	option presentatio	n not allowed no 181 (Being		
Test Purpose	number and the Call o	Ensure that on receipt of a 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, if the Call diversion information Notification subscription options is set to presentation not allowed no 181 (Being forwarded) is sent				
ISUP Parameter values	Redirection nu Call diversion i	ation=call is divertir mber nformation	ng ns=presentation not	allowed		
SIP Parameter values		•	•			
Comments						
Message flows	Mg		MGCF	ISUP		
	INVITE 180 Ringing	<b>→</b> ←	<b>→</b> ←	IAM ACM CPG		
		Apply	oost test routine			

TP number	TP_403_060	Reference	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 CPG Notification s	ubscription options into 181 (B	eing forwarded) escaped			
	Privacy header					
Test Purpose	Ensure that on receipt of a CP	G the Event indicator is set to '	'Progress' a Redirection			
	number and the Call diversion					
	occurred, a 181 (Being forward					
	subscription options is mapped					
	a History-Info header in the se	nt 181 as indicated in table 6.3	3.3-26			
ISUP Parameter values	CPG: Event=Progress					
	Generic notification=ca	ll is diverting				
	Redirection number					
	Call diversion information					
		otion options= <b>NSO_value</b>				
SIP Parameter values	181:					
	History-Info: <sip:any pro<="" th=""><th>oer URI;cause=any?Privacy=<b>P</b></th><th>'RIV_value &gt;; Index=1</th></sip:any>	oer URI;cause=any?Privacy= <b>P</b>	'RIV_value >; Index=1			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	<del>-</del>	IAM			
	180 Ringing ← ← ACM					
	181 Being forwarded ← CPG					
	Apply post test routine					

TP number	TP 403 061	Reference		7.5.4.3	
TT Hamber	11 _403_001	Reference		table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			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 CPG Alerting		180 (Rir	nging) History-Info header	
l cott a pood name	Redirecting reason is map			ignig/ i liotory line rieddel	
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Redirection number Address signal digits are mapped into the hi-targeted-to-uri in a History-Info header in the sent 180 (Ringing) as indicated in table 6.3.3-24 and the cause parameter value is mapped from a previous received Redirecting reason as indicated in table 6.3.3-25				
ISUP Parameter values	ACM: Call diversion information Redirecting reason =REAS_value Redirection number CPG: Event indicator=Alerting Redirection number Nature of address indicator=NOA_value				
SIP Parameter values	Address signal  180: History-Info: <a href="mailto:sip:derived from">sip:derived from</a>		:P <b>G</b> :cau	se= <b>Cause_value</b> >; index=1	
Comments			,	_ · · · · · · · · · · · · · · · · · · ·	
Message flows	Mg	MGCF		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	181 Being forwarded	<b>←</b>	<b>←</b>	ACM	
	180 Ringing	<b>←</b>	<b>←</b>	CPG	
	Apply post test routine				

TP number	TP 403 062	Reference	7.5.4.3			
			table 7.5.4.3.7			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5					
Test Purpose name	Mapping of CPG Alerting Redirect	on Number Restriction into 180	0 (Ringing) Privacy header			
Test Purpose	Ensure that on receipt of a CPG th	e Event indicator is set to 'Aler	ting' a Redirection Number			
	Restriction parameter is present, a					
	parameter value is mapped into the	e Privacy header in the sent 18	30 as indicated in			
	table 6.3.3-27					
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 Restric	ction=PRES_restr				
SIP Parameter values	180:					
	Privacy= <b>PRIV_value</b>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	181 Being forwarded ←	<b>←</b>	ACM			
	180 Ringing ← ← CPG					
	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	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 ANM Redirection n	umber into 200 OK History-In	fo header Redirecting reason			
	is mapped into the cause para					
Test Purpose	Ensure that on receipt of an Al					
	sent. The Redirection number					
	hi-targeted-to-uri in a History-Ir					
	and the cause parameter value	ie is mapped from a previous	received Redirecting reason			
10115	as indicated in table 6.3.3-25					
ISUP Parameter values	ACM: Backward call indicator					
	Called party status=					
	Generic notification=cal					
	Call diversion information					
	Redirecting reason :	=REA5_value				
	ANM:					
	Redirection number					
		ndicator=NOA_value				
	Address signal <b>Digi</b>					
SIP Parameter values	200 OK:					
on randingtor rando		n@unknown.invalid>; index=1				
		HIST_URI;cause=Cause_valu				
Comments	<u> </u>		,			
Message flows	Mg	MGCF	ISUP			
	INVITE ->	→	IAM			
	181 Being forwarded ←	<b>+</b>	ACM			
	180 Ringing ← ← CPG					
	200 OK INVITE ← ← ANM					
	ACK →					
	Apply post test routine					

TP number	TP_403_064	Reference	7.5.4.3				
			table 7.5.4.3.7				
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 ANM Redirection I	Number Restriction into 200 OK	INVITE Privacy header				
Test Purpose		NM a Redirection Number Rest					
	as an indication a call diversion	n occurred, a 200 OK INVITE is	s sent. The Redirection				
		value is mapped into the Priva	cy header in the sent 200 OK				
	INVITE as indicated in table 6.	.3.3-27					
ISUP Parameter values	ACM: Generic notification=ca	· ·					
	Call diversion information	on					
	Redirection number						
	ANM: Event indicator=Alerting						
	Redirection Number Re	estriction= <b>PRES_restr</b>					
SIP Parameter values	200 OK INVITE:						
	Privacy= <b>PRIV_value</b>						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE -	<b>→</b>	IAM				
	181 Being forwarded	·	ACM				
	180 Ringing ← ← CPG						
	200 OK INVITE ← ANM						
	ACK →						
		Apply post test routine					

## 6.3.4 Conference call (CONF)

TP number	TP_404_001	Refe	rence		7.5.6.2			
TSS reference	PSTN-SS/CONF/	•						
Selection criteria	PICS 6.3.1/2 AND PIC	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1						
Test Purpose name	'isfocus' parameter and	d conference L	IRI in Contact he	eader in	ACK receive	ved, a SUBSCRIBE		
	is sent							
Test Purpose		Ensure that on receipt of an INVITE request and a Contact header field is present						
	containing the confere							
	after the ACK was rec		•					
	header in the ACK, the							
	P-Asserted-Identity is							
IOUE	the 200 OK INVITE the	e Privacy head	er is sent as in t	the 180 i	Ringing or 2	200 OK INVITE		
ISUP Parameter values								
SIP Parameter values	INVITE: Contact: <c< th=""><th></th><th></th><th></th><th></th><th></th></c<>							
	SUBSCRIBE: Reques							
			alue in the 180		- 45 - 400 -	- 000		
Comments	P-Asser	tea-laentity: <	URI equal to the	e value ii	1 the 180 o	r 200>		
	Ma		MGCF			ISUP		
Message flows	Mg INVITE	<b>→</b>	MGCF	<b>→</b>	1004	ISUP		
		=		7	IAM			
	100 Trying	<del>-</del>		<b>←</b>	ACM			
	180 Ringing	~		~	ACIVI			
	200 OK (INI\/ITE)	<b>←</b>		<b>←</b>	ANM			
	200 OK (INVITE)			_	AINIVI			
	ACK →							
	SUBSCRIBE	<b>←</b>						
	202 Accepted	÷						
	Apply post test routine							

TP number	TP 404 002	Reference	7.5.6.2			
TSS reference	PSTN-SS/CONF/	Reference	1.0.0.2			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	0/20 AND DICS 6 2 0/1				
			In the OOO OK and the I			
Test Purpose name	'isfocus' parameter and confe SUBSCRIBE is sent	rence URI in Contact nead	ier in 200 OK received, a			
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	Mg	MGCF	ISUP			
_	IAM -	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ← 200 OK (INVITE) → ACK					
		<b>→</b>	SUBSCRIBE 202 Accepted			
		Apply post test routing	•			

TP number	TP_404_003	Refe	rence		7.5.6.3	
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/20 AN	D PICS 6.3.9/1			
Test Purpose name	Interworking of notifica	tion of 'Confer	ence established	d' at the	I-MGCF	
Test Purpose	Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established'					
ISUP Parameter values	CPG: Generic notifica					
	Conference					
SIP Parameter values	INVITE: Contact: <conference uri="">; isfocus  NOTIFY: Subscription-State: active</conference>					
Comments						
Message flows	Mg INVITE 100 Trying 180 Ringing	<b>→</b> ←	MGCF	<b>→</b>	IAM ACM	ISUP
	200 OK (INVITE) ← ANM ACK →					
	SUBSCRIBE ← 202 Accepted →					
	NOTIFY 200 OK (NOTIFY)	→ ← Δni	oly post test ro	→ utine	CPG	
	1	791	ny post test for	41110		

TSS reference   PSTN-SS/CONF/   PICS 6.3.1/2 AND PICS 6.3.9/1	TP number	TP_404_004	Refere	nce 7.5.6.3			
Test Purpose name Interworking of notification of 'Conference established' at the O-MGCF Ensure that on receipt of an INVITE request after a session was established and the Contact header contains the Isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'active' sub element of the conference-state' element is set to 'true' an 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 request  ISUP Parameter values  INVITE 1: CallID: xxx INVITE 2: CallID: xxx INVITE 3: CallID: xxx INVITE 4: CallID: xxx INVITE 4: CallID: xxx INVITE 4: CallID: xxx INVITE 5: CallID: xxx INVITE 5: CallID: xxx INVITE 6: CallID: xxx INVITE 6: CallID: xxx INVITE 7: CallID: xxx INVITE 8: CallID: xxx INVITE 8: CallID: xxx INVITE 9: CallID: xxx INVITE 9: CallID: xxx INVITE 9: CallID: xxx INVITE 1: Call	TSS reference	PSTN-SS/CONF/		·			
Test Purpose name  Interworking of notification of 'Conference established' at the O-MGCF  Ensure that on receipt of an INVITE request after a session was established and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'active' sub element of the conference-state' element is set to 'true' an 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 request  SIP Parameter values  SIP Parameter values  INVITE 1: CallID: xxx INVITE 2: CallID: xxx INVITE 3: CallID: xxx INVITE 4: CallID: xxx INVITE 4: CallID: xxx INVITE 4: CallID: xxx INVITE 5: CallID: xxx INVITE 5: CallID: xxx INVITE 6: CallID: xxx INVITE 6: CallID: xxx INVITE 7: CallID: xxx INVITE 8: CallID: xxx INVITE 8: CallID: xxx INVITE 9: CallID: xxx INVITE 1: Ca	Selection criteria	PICS 6.3.1/2 AND I	PICS 6.3.2/20 AND	PICS 6.3.9/1			
Ensure that on receipt of an INVITE request after a session was established and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'active' sub element of the 'conference-state' element is set to 'Irue' an 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 request  SIP Parameter values  SIP Parameter values  INVITE 1: CallID: xxx  INVITE 2: CallID: xyx  Contact: <conference uri="">; isfocus Replaces: xxx; to-tag=&lt;&gt;; from-tag=&lt;&gt; NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-state</th><th>Test Purpose name</th><th></th><th></th><th></th></conference>	Test Purpose name						
Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the active sub element of the conference-state' element is set to true an 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 request  ISUP Parameter values  INVITE 1: CalliD: xxx  INVITE 1: CalliD: xxx  INVITE 1: CalliD: xxx  INVITE 2: CalliD: xxx  INVITE 2: CalliD: xxx  INVITE 2: CalliD: xxx  INVITE 2: CalliD: xxx  NOTIFY: Subscription-State: active  Event: conference  Content-Type: application/conference-info+xml <notation="1">   Comments  Note that the INVITE received in the confirmed dialogue is originated by the conference-info conference-info  conference-state  active-true  BYE: CallID: xxx  Note that the INVITE received in the confirmed dialogue is originated by the conference-focus. The originally dialogue have to terminated.  Message flows  Mg  MGCF  IAM  MGCF  IAM  ACM  MGCF  INVITE 1  COO OK (INVITE)  ACK  INVITE 2  200 OK (INVITE)  ACK  INVITE 2  200 OK (INVITE)  ACK  SUBSCRIBE  CPG  CPG  NOTIFY  200 OK (NOTIFY)  200 OK (NOTIFY)  200 OK (NOTIFY)  200 OK (NOTIFY)  EBYE  CPG  NOTIFY  CPG  CPG  CPG  CPG  CPG  CPG  CPG  CP</notation="1">							
on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'active' sub element of the 'conference-state' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter to terminate the originally session by sending a BYE request  ISUP Parameter values  CPG: Generic notification Conference established  INVITE 1: CallID: xxx INVITE 2: CallID: yxy Contact: <conference uri="">; isfocus Replaces: xxx; to-tag=&lt;&gt;; from-tag=&lt;&gt; NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info conference-info conference-info conference-state BYE: CallID: xxx  Mg MGCF ISUP  IAM</th><th>  Tool   M. P. Co.</th><th colspan="5"></th></conference>	Tool   M. P. Co.						
conference-info instance is present, the 'active' sub element of the 'conference-state' element is set to 'Turue' an 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 request  CPG: Generic notification Conference established  INVITE 1: CallID: xxx  INVITE 2: CallID: xxx  Contact: <conference uri="">; isfocus Replaces: xxx; to-tag=&lt;&gt;:from-tag=&lt;&gt; NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version=*1.0* conference-info conference-state active>true&lt; BYE: CallID: xxx  Comments  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg  MGCF ISUP  IAM  MGCF INVITE 1  ACM  ANM  MGCF INVITE 1  - 100 Trying ACM  INVITE 2  - 200 OK (INVITE)  ACK  INVITE 2  - 200 OK (INVITE)  - ACK  SUBSCRIBE  - 202 Accepted  CPG  CPG  MYE  - 200 OK (BYE)</conference>							
element is set to 'true' an 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 request  CPG: Generic notification Conference established  INVITE 1: CallID: xxx INVITE 1: CallID: xxx INVITE 2: CallID: xxx INVITE 2: CallID: yyy Contact: -conference URI>; isfocus Replaces: xxx; to-tage-<>;from-tage-<>> NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml xml version=1.0' conference-info conference-info conference-state active true< BYE: CallID: xxx  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Mg MGCF ISUP  IAM							
is set to 'Conference established'. The INVITE request contains also a Replaces header to terminate the originally session by sending a BYE request  ISUP Parameter values  INVITE 1: CallID: xxx INVITE 2: CallID: yyy Contact: cconference URI>; isfocus Replaces: xxx; to-tag=<> NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-state active true< BYE: CallID: xxx  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg MGCF ISUP  IAM							
to terminate the originally session by sending a BYE request  ISUP Parameter values  CPG: Generic notification Conference established  INVITE 1: CalIID: xxx INVITE 2: CalIID: xxx INVITE 2: CalIID: xxx INVITE 2: CalIID: xxx INVITE 2: CalIID: xxx INVITE 3: CalIID: xxx INVITE 3: CalIID: xxx INVITE 4: CalIID: xxx INVITE 4: CalIID: xxx INVITE 4: CalIID: xxx  Conference Content-Type: application/conference-info+xml <							
SUP Parameter values   CPG: Generic notification   Conference established							
Conference established	ISUP Parameter values	CPG: Generic noti	fication	shaing a B 1 L requeet			
SIP Parameter values  INVITE 1: CallID: xxx INVITE 2: CallID: yyy Contact: -cconference URI>; isfocus Replaces: xxx; to-tag=<>; from-tag=<>> NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-state active true< BYE: CallID: xxx  Comments  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg MGCF ISUP  ACM  MGCM  MGCF ISUP  ANM  MGCM  MGCF ISUP  ACM  ANM  MGCM  MGCM  MGCF  INVITE 1  MGCM  M	loor rarameter varies						
INVITE 2: CallID: yyy Contact: <conference uri="">; isfocus Replaces: xxx; to-tag=&lt;&gt;; from-tag=&lt;&gt; NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info conference-state active>true&lt; BYE: CallID: xxx  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg MGCF ISUP IAM</conference>	SIP Parameter values						
Contact: <conference uri="">: isfocus Replaces: xxx; to-tag=&lt;&gt;  NOTIFY: Subscription-State: active   Event: conference Content-Type: application/conference-info+xml   <?xml version="1.0"   conference-info   conference-state   active>true&lt; BYE: CallID: xxx  Comments   Mg</conference>	Sir raiailletei values						
Replaces: xxx; to-tag=<>;from-tag=<> NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <pre></pre> <pre> <pre></pre></pre>				inforce			
NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-info conference-state active true< BYE: CallID: xxx  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  MgCF ISUP IAM							
Event: conference Content-Type: application/conference-info+xml <pre> <pre></pre></pre>				ini-tay=<>			
Content-Type: application/conference-info+xml <pre> <pre></pre></pre>							
<pre></pre>				onforonce informal			
conference-info conference-state active>true< BYE: CallID: xxx  Comments  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Mg MGCF ISUP  IAM → INVITE 1 ← 100 Trying ACM ← ← 180 Ringing  ANM ← ← 200 OK (INVITE) → ACK ← INVITE 2 → 200 OK (INVITE) ← ACK → SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY) ← BYE → 200 OK (BYE)				onierence-inio+xini			
Comments  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg  MGCF  ISUP  IAM  INVITE 1  100 Trying  ACM  ANM  ANM  ANM  ANM  ANM  SUBSCRIBE  200 OK (INVITE)  ACK  SUBSCRIBE  202 Accepted  CPG  NOTIFY  200 OK (NOTIFY)  BYE  200 OK (BYE)							
active>true < BYE: CallID: xxxx  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg MGCF ISUP  IAM  MGCF IAND  ACM  ACM  ACM  ACM  ACM  ACM  ACM  AC							
BYE: CallID: xxx  Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg MGCF ISUP  IAM  INVITE 1  100 Trying  ACM  ANM  ANM  ACK  INVITE 2  200 OK (INVITE)  ACK  INVITE 2  ACK  INVITE 2  200 OK (INVITE)  ACK  SUBSCRIBE  202 Accepted  CPG  NOTIFY  200 OK (NOTIFY)  BYE  200 OK (BYE)							
Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue have to terminated.  Message flows  Mg MGCF ISUP  IAM  INVITE 1  100 Trying  ACM  ANM  ANM  COUNTY  ACK  INVITE 2  200 OK (INVITE)  ACK  INVITE 2  200 OK (INVITE)  ACK  SUBSCRIBE  202 Accepted  CPG  NOTIFY  200 OK (NOTIFY)  BYE  200 OK (BYE)			ctive>true<				
focus. The originally dialogue have to terminated.  Message flows  Mg MGCF INVITE 1  100 Trying 180 Ringing  ACM  ANM  ANM  ANM  ANM  ANM  ANM  ANM	0						
Mg   MGCF   ISUP     IAM   →	Comments						
IAM	Manageraflawa						
ACM ← 100 Trying ← 180 Ringing  ANM ← 200 OK (INVITE) → ACK ← INVITE 2 → 200 OK (INVITE) ← ACK  → SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY) ← BYE → 200 OK (BYE)	wessage flows	_					
ACM ←		IAM	→				
ANM ← 200 OK (INVITE)  → ACK  ← INVITE 2 → 200 OK (INVITE) ← ACK  → SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)							
→ ACK  ← INVITE 2 → 200 OK (INVITE) ← ACK  → SUBSCRIBE ← 202 Accepted  CPG  ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)		ACM	<b>←</b>	← 180 Ringing			
→ ACK  ← INVITE 2 → 200 OK (INVITE) ← ACK  → SUBSCRIBE ← 202 Accepted  CPG  ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)							
← INVITE 2 → 200 OK (INVITE) ← ACK  → SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)		ANM	<b>←</b>	← 200 OK (INVITE)			
→ 200 OK (INVITE)         ← ACK         → SUBSCRIBE         ← 202 Accepted         CPG       ← NOTIFY         → 200 OK (NOTIFY)         ← BYE         → 200 OK (BYE)				→ ACK			
→ 200 OK (INVITE)         ← ACK         → SUBSCRIBE         ← 202 Accepted         CPG       ← NOTIFY         → 200 OK (NOTIFY)         ← BYE         → 200 OK (BYE)							
CPG ← ACK  ⇒ SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY ⇒ 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)				← INVITE 2			
CPG ← ACK  ⇒ SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY ⇒ 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)				→ 200 OK (INVITE)			
→ SUBSCRIBE ← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)							
← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)				T NOIC			
← 202 Accepted  CPG ← NOTIFY → 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)							
CPG				→ SUBSCRIBE			
→ 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)							
→ 200 OK (NOTIFY)  ← BYE → 200 OK (BYE)							
← BYE         → 200 OK (BYE)		CDC	L	← 202 Accepted			
→ 200 OK (BYE)		CPG	<b>←</b>	<ul><li>← 202 Accepted</li><li>← NOTIFY</li></ul>			
→ 200 OK (BYE)		CPG	<b>←</b>	<ul><li>← 202 Accepted</li><li>← NOTIFY</li></ul>			
		CPG	<b>←</b>	<ul><li>← 202 Accepted</li><li>← NOTIFY</li><li>→ 200 OK (NOTIFY)</li></ul>			
Apply post test routine		CPG	<b>←</b>	<ul> <li>← 202 Accepted</li> <li>← NOTIFY</li> <li>→ 200 OK (NOTIFY)</li> <li>← BYE</li> </ul>			
		CPG		<ul> <li>← 202 Accepted</li> <li>← NOTIFY</li> <li>→ 200 OK (NOTIFY)</li> <li>← BYE</li> <li>→ 200 OK (BYE)</li> </ul>			

TP number	TP_404_005	Reference	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 I-MGC	F			
Test Purpose	An established conference is al					
	at the I-MGCF. Ensure that on					
	'endpoint' element does not cor					
	'status' sub element of the 'end					
	is sent the Generic notification	indicator is set to 'other party	added'			
ISUP Parameter values	CPG: Generic notification					
	other party added					
SIP Parameter values	NOTIFY: To: <isup address=""></isup>					
	Subscription-State: a	active				
	Event: conference					
	Content-Type: applic	Content-Type: application/conference-info+xml				
	xml version="1.0"</th <th></th> <th></th>					
	conference-info					
	users	users				
	user					
	endpoint entity=" <not isup="" of="" uri="">"</not>					
	status>connected<					
Comments						
Message flows	Mg	MGCF	ISUP			
_		established and joined in a c	onference			
	NOTIFY ->	<b>→</b>	CPG			
	200 OK (NOTIFY) ←					
		Apply post test routine				
	•					

TP number	TP 404 006	Reference	7.5.6.3		
TSS reference	PSTN-SS/CONF/		1.16.6.6		
Selection criteria		D PICS 6.3.2/20 AND PICS 6.3.9/1			
Test Purpose name		otification of 'other party added' at the	ne O-MGCF		
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 does not contain 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 ISUP CPG message is sent the Generic notification indicator is set to 'other party added'				
ISUP Parameter values	CPG: Generic no other p	otification party added			
SIP Parameter values	Event: Conter xml</th <th>ription-State: active conference nt-Type: application/conference-info version="1.0" ence-info</th> <th></th>	ription-State: active conference nt-Type: application/conference-info version="1.0" ence-info			
Comments					
Message flows	Mg	MGCF	ISUP		
	Session is established and joined in a conference				
	CPG	<b>←</b>	► NOTIFY		
			→ 200 OK (NOTIFY)		
		Apply post test ro	outine		

TP number	TP_404_007	Refe	rence	7.5.6.3	
TSS reference	PSTN-SS/CONF/			·	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/20 AN	D PICS 6.3.9/1		
Test Purpose name	Interworking of notifica	ation of 'isolated	d' at the I-MGCF		
Test Purpose				an adequate NOTIFY request	
				and the 'entity' attribute of the	
				the To header and the 'status' SUP CPG message is sent the	
	Generic notification in			SOF CFG message is sent the	
ISUP Parameter values	CPG: Generic notifica		isolateu		
130F Farailleter values	Isolated	ation			
SIP Parameter values	NOTIFY: To: <isup< th=""><th>address&gt;</th><th></th><th></th></isup<>	address>			
	Subscription	n-State: active			
	Event: conf				
			conference-info+xml		
	xml versi</th <th></th> <th></th> <th></th>				
	conference	-info			
	users				
	user		" .UDL «FICUD. "		
	endpoint entity=" <uri isup="" of="">" status&gt;on-hold&lt;</uri>				
Comments		5tatu5>011-11	olu<		
Message flows	Mg		MGCF	ISUP	
moodage nows		ssion is estab	lished and joined in a		
	CASE A				
	NOTIFY	<b>→</b>	<b>→</b>	CPG	
	200 OK (NOTIFY)	<del>-</del>	_		
	,				
	CASE B				
	NOTIFY	<b>→</b>	<b>→</b>	CPG	
	200 OK (NOTIFY) ←				
	INVITE(sendonly)	<b>→</b>			
	200 OK (INVITE)	<b>←</b>			
	ACK	<b>→</b>			
		Арј	oly post test routine		

TP number	TP_404_008	Reference		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 no	tification of 'isolated' at the O-	MGCF		
Test Purpose	at the O-MGCF. E 'endpoint' element sub element of the Generic notificatio	nsure that on receipt of a NO contains the ISUP address as elendpoint' element is set to on indicator is set to 'isolated'	TIFY red s receive	pt of an adequate NOTIFY request quest and the 'entity' attribute of the ed in the To header and the 'status' an ISUP CPG message is sent the	
ISUP Parameter values	CPG: Generic no				
OID D	isolated				
SIP Parameter values  Comments	Event: c Content xml v<br confere use	ption-State: active conference t-Type: application/conference version="1.0" nce-info		ml	
				IOLID	
Message flows	Mg	MGCF		ISUP	
	CASE A	Session is established and	joined	in a conference	
	CPG	<b>←</b>	<b>←</b> →	NOTIFY 200 OK (NOTIFY)	
	CASE B		-	NOTITY	
	CPG         ←         NOTIFY           →         200 OK (NOTIFY)				
	<ul><li>← INVITE(sendonly)</li><li>→ 200 OK (INVITE)</li><li>← ACK</li></ul>				
		Apply post te	st routi	ne	

TP number	TP 404 009	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/	1	1			
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/20 AND PICS 6.3.9	/1			
Test Purpose name	Interworking of notific	cation 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 receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not contain 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 ISUP CPG message is sent the Generic notification indicator is set to ' <b>other party isolated</b> '					
ISUP Parameter values	CPG: Generic notifice other party					
SIP Parameter values	Event: con Content-Ty xml vers conference users use</th <th>on-State: active  Inference  Inference:  Inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference</th> <th></th> <th></th>	on-State: active  Inference  Inference:  Inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference				
Comments						
Message flows	Mg Se NOTIFY 200 OK (NOTIFY)	MGCF ession is established and jo  →  ←  Apply post test	→ CPG			

TP number	TP_404_0	110	Reference	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	Interworki	ng of notification of 'c	other party isolated at the	e O-MGCF		
Test Purpose				pt of an adequate NOTIFY request		
				quest and the 'entity' attribute of the		
				as received in the To header and the		
				n-hold, an ISUP CPG message is		
	sent the G	eneric notification in	dicator is set to 'other pa	rty isolated'		
ISUP Parameter values	CPG: Ge	neric notification				
		other party isolated				
SIP Parameter values	NOTIFY:	To: <isup address=""></isup>	•			
		Subscription-State:	active			
		Event: conference				
		Content-Type: application/conference-info+xml				
		xml version="1.0"</th				
		conference-info				
		users				
	user					
	endpoint entity=" <not isup="" of="" uri="">"</not>					
		status	>on-hold<			
Comments						
Message flows		Mg	MGCF	ISUP		
		Session is	established and joined	in a conference		
	CPG	<b>←</b>	<b>+</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
			Apply post test routi	,		

TP number	TP_404_011	Reference		7.5.6.3			
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 6.3.1/2 AND PICS	S 6 3 2/20 AND PIC	S 6 3 0/1				
Test Purpose name	Interworking of notificat						
Test Purpose				an adequate NOTIEV request			
lest Fulpose		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'					
				s as received in the To header			
				to <b>connected</b> , an ISUP CPG			
	message is sent the Ge						
ISUP Parameter values	CPG: Generic notificat						
	reattached						
SIP Parameter values	NOTIFY: To: <isup a<="" th=""><th>ddress&gt;</th><th></th><th></th></isup>	ddress>					
		-State: active					
	Event: confe						
	Content-Typ	e: application/confe	ence-info+xml				
	xml version</th <th></th> <th></th> <th></th>						
	conference-i	nfo					
	users						
	user						
	er	ndpoint entity=" <ur< th=""><th>l of ISUP&gt;"</th><th></th></ur<>	l of ISUP>"				
		status>connected	<				
Comments							
Message flows	Mg		GCF	ISUP			
		is established join	ed in a conferer	nce and isolated			
	CASE A						
	NOTIFY	<b>→</b>	<b>→</b>	CPG			
	200 OK (NOTIFY)	<b>←</b>					
	CASE B						
	NOTIFY	<b>→</b>	<b>→</b>	CPG			
	200 OK (NOTIFY) ←						
		_					
	INVITE(sendrecv)	<b>→</b>					
	200 OK (INVITE)	<del>(</del>					
	ACK	<b>→</b>					
		Apply po	st test routine				

TP number	TP_404_012	Referer	се	7.5.6.3	
TSS reference	PSTN-SS/CONF	/			
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/20 AND F	PICS 6.3.9/1		
Test Purpose name	Interworking of n	otification of 'reattache	d' at the O-MGC	CF	
Test Purpose	and isolated at the attribute of the 'e and the 'status' s message is sent	e I-MGCF. Ensure that ndpoint' element conta ub element of the 'end the Generic notification	on receipt of a ns the ISUP ad point' element is	ipt of an adequate NOTIFY request NOTIFY request and the 'entity' ldress as received in the To header is set to connected, an ISUP CPG it to 'reattached'	
ISUP Parameter values	CPG: Generic n				
SIP Parameter values	Reattached  NOTIFY: To: <isup address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<URI of ISUP>" status&gt;connected&lt;</isup>				
Comments					
Message flows	Mg		CF	ISUP	
	CASE A	ssion is established	oined in a con	ference and isolated	
	CPG	<b>←</b>	<b>←</b> →	NOTIFY 200 OK (NOTIFY)	
	CASE B  CPG ← NOTIFY  → 200 OK (NOTIFY)				
	<ul><li>← INVITE(sendrecv)</li><li>→ 200 OK (INVITE)</li><li>← ACK</li></ul>				
		Apply	post test routi	ine	

TP 404 013	Reference	7.5.6.3				
PSTN-SS/CONF/						
PICS 6.3.1/2 AND PIC	CS 6.3.2/20 AND PICS 6.3.9	)/1				
Interworking of notifica	ation of 'other party reattach	ed' at the I-MGCF				
An established confer and another party is is and the 'entity' attribut received in the To hea connected, an ISUP	An established conference is already indicated by receipt of an adequate NOTIFY request and another party is isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not contain 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 ISUP CPG message is sent the Generic notification indicator is set to					
other party	reattached					
NOTIFY: To: <isup address="">     Subscription-State: active     Event: conference     Content-Type: application/conference-info+xml     <?xml version="1.0"     conference-info         users         user         endpoint entity="<not URI of ISUP>"</isup>						
Mg MGCF ISUP  Session is established joined in a conference and another party was isolated  NOTIFY → CPG  200 OK (NOTIFY) ←  Apply post test routine						
	PICS 6.3.1/2 AND PIC Interworking of notification An established confer and another party is is and the 'entity' attributive received in the To head connected, an ISUP 'other party reattach' CPG: Generic notification other party NOTIFY: To: <isup conference="" established.<="" event:="" is="" mg="" session="" subscription="" th="" use="" users=""><th>PSTN-SS/CONF/  PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9  Interworking of notification of 'other party reattach An established conference is already indicated by and another party is isolated at the I-MGCF. Ensurand the 'entity' attribute of the 'endpoint' element of received in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the Group of the party reattached in the Group of the party reattached in the Group of /th></isup>	PSTN-SS/CONF/  PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9  Interworking of notification of 'other party reattach An established conference is already indicated by and another party is isolated at the I-MGCF. Ensurand the 'entity' attribute of the 'endpoint' element of received in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the To header and the 'status' sub element of the party reattached in the Group of the party reattached in the Group of the party reattached in the Group of				

TP number	TP_404_014	Reference	7.5.6.3		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/20 AND PICS 6.3.9/1			
Test Purpose name	Interworking of n	otification of 'other party reattached'	at the O-MGCF		
Test Purpose			ceipt of an adequate NOTIFY request		
			that on receipt of a NOTIFY request		
		tribute of the 'endpoint' element doe			
		o header and the 'status' sub eleme			
		SUP CPG message is sent the Gene	eric notification indicator is set to		
	other party reat				
ISUP Parameter values	CPG: Generic n				
		party reattached			
SIP Parameter values	NOTIFY: To: <isup address=""></isup>				
		ription-State: active			
	Event: conference				
	Content-Type: application/conference-info+xml				
	xml version="1.0"</th				
	conference-info				
	users				
	user				
	endpoint entity=" <not isup="" of="" uri="">"</not>				
		status>connected<			
Comments					
Message flows	Mg	MGCF	ISUP		
	Session is	established joined in a conference	e and another party was isolated		
	CPG	<del>(</del>	NOTIFY		
		-	→ 200 OK (NOTIFY)		
		Apply post test ro	utine		

TP number	TP_404_015	Reference	7.5.6.3				
TSS reference	PSTN-SS/CONF/	110.0.0.00	17.0.0.0				
Selection criteria		ICS 6.3.2/20 AND PICS 6.3	9/1				
Test Purpose name							
Test Purpose	An established confe at the I-MGCF. Ensu 'endpoint' element do sub element of the 'e	Interworking of notification of 'other party disconnected' at the I-MGCF  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 dialled-out, an ISUP CPG message is sent the Generic notification indicator is set to 'other party disconnected'					
ISUP Parameter values	CPG: Generic notific	cation					
	other party	y disconnected					
SIP Parameter values	Event: cor Content-T	on-State: active nference ype: application/conference sion="1.0" e-info	of ISUP>" -in<				
Comments							
Message flows	Mg So NOTIFY 200 OK (NOTIFY)	MGCF ession is established and →	joined in a conference → CPG				
		Apply post tes	st routine				

TP number	TP_404_016	Reference	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 disconnected' at the O-MGCF					
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request					
			quest and the 'entity' attribute of the			
	'endpoint' element does not contain the ISUP address as received in the To header and the					
			ialled-out, an ISUP CPG message			
	is sent the Generic notification	n indicator is set to ' <b>other</b>	party disconnected'			
ISUP Parameter values	CPG: Generic notification					
	other party disconi	nected				
SIP Parameter values	NOTIFY: To: <isup address<="" th=""><th>S&gt;</th><th></th></isup>	S>				
	Subscription-State	: active				
	Event: conference					
	Content-Type: application/conference-info+xml					
	xml version="1.0"</th					
	conference-info					
	users					
	user					
	endpoint entity=" <not isup="" of="" uri="">"</not>					
	status>disconnected<					
	or					
	joining-method>dialled-out<					
Comments						
Message flows	Mg	MGCF	ISUP			
		Session is established and joined in a conference				
	CPG ←	<b>←</b>	NOTIFY			
		<b>→</b>	200 OK (NOTIFY)			
		Apply post test routi	ne			

## 6.3.5 Message Waiting Indication (MWI)

Void.

#### 6.3.6 Malicious Communication Identification (MCID)

TP number	TP_406_001	Reference	7.5.9.1		
TSS reference	IMS-SS/MCID/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3	3			
Test Purpose name	Receipt of INFO request an IDI	Receipt of INFO request an IDR is sent			
Test Purpose	Ensure that on receipt of an IN				
			eq, an ISUP IDR message is sent		
	and the MCID request indicator	s is set to MCID_req as in	dicated in table 6.3.6-1		
ISUP Parameter values	IDR: MCID request indicators	3			
	MCID_req				
SIP Parameter values	INFO:				
	xml version="1.0"</th				
	mcid				
	request>				
	McidRequestIndicate	or>XML_McidReq </th <th></th>			
	HoldingIndicator>1 </th				
Comments					
Message flows	Mg	MGCF I	SUP		
	IAM →	<b>→</b>	NVITE		
		<b>+</b> *	100 Trying		
	IDR <b>←</b>		NFO		
		<b>→</b> 2	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		7.5.9.1
TSS reference	IMS-SS/MCID/			
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/3		
Test Purpose name	Receipt of IRS an	INFO request is sent		
Test Purpose	Ensure that on red	ceipt of an IRS message co	ontaining a M	ICID response indicator set to
		FO is sent and a MCID XM		
	The McidRespons	seIndicator is set to XML_N	<b>//cidRsp</b> as i	ndicated in table 6.3.6-2
ISUP Parameter values	IRS: MCID resp	onse indicator		
	MCID_	rsp		
SIP Parameter values	INFO:			
	xml version</th <th>="1.0"</th> <th></th> <th></th>	="1.0"		
	mcid			
	response>			
	McidRe	esponseIndicator> <b>XML_M</b>	cidRsp </th <th></th>	
Comments				
Message flows	Mg	MGCF		ISUP
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	100 Trying
	IDR		<b>←</b>	INFO
			→	200 OK INFO
	IRS	<b>→</b>	<b>→</b>	INFO
			<b>←</b>	200 OK INFO
	Apply post test r	outine		

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	7.5.9.1.3	
TSS reference	IMS-SS/MCID/	•		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3			
Test Purpose name	Receipt of IRS an INFO reque	st is sent, a Calling party i	number is interworked	
Test Purpose	Receipt of IRS an INFO request is sent, a Calling party number is interworked  Ensure that on receipt of an IRS message containing a 'mcid' 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			
SIP Parameter values	Address signal INFO:			
	<pre><?xml version="1.0" mcid response>     McidResponseIndicator&gt;1</pre> OrigPartyIdentity> derived from the Calling Party number Address signal     OrigPartyPresentationRestriction>XML_orig_restr			
Comments				
Message flows	Mg IAM ACM IDR  IRS →	MGCF	ISUP INVITE 180 Ringing INFO 200 OK INFO INFO 200 OK INFO	
	Apply post test routine			

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	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	Receipt of IRS an INFO request is sent, an Additional calling party number is interworked			
Test Purpose	Ensure that on receipt of an IRS message containing a 'mcid' 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			
		s indicated in table 6.3.6-		
ISUP Parameter values		ncluded mber nal calling Party number s presentation restriction	indicator= <b>APRI_value</b>	
SIP Parameter values	INFO: xml version= mcid response McidRe Generio	="1.0" sponseIndicator> <b>1</b> <br :Number> <b>derived from t</b>	he Generic number Address signal <br triction>XML_gen_restr </th	
Comments				
Message flows	Mg IAM ACM IDR	MGCF → ←	ISUP  → INVITE  ← 180 Ringing  ← INFO  → 200 OK INFO  → INFO	
	Apply post test re	outine	← 200 OK INFO	

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	7.5.9.2.2			
TSS reference	IMS-SS/MCID/	IMS-SS/MCID/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3	3				
Test Purpose name	ISUP IDR is mapped into INFC	ISUP IDR is mapped into INFO request				
Test Purpose	MCID_req, an INFO request is	Ensure that on receipt of an ISUP IDR containing a MCID request indicators indicator set to <b>MCID_req</b> , an INFO request is sent. A XML 'mcid' McidRequestIndicator is included set to <b>XML_McidReq</b> as indicated in table 6.3.6-5				
ISUP Parameter values	IDR: MCID request indicators  MCID_req	S				
SIP Parameter values	INFO: <pre><?xml version="1.0"     mcid     request></pre>	or> <b>XML_McidReq&lt;</b> /				
Comments	_					
Message flows	Mg INVITE → 100 Trying ← INFO ← 200 OK INFO	<b>←</b>	ISUP IAM IDR			

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

TSS reference IMS-SS/MCID/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/3  Test Purpose name INFO request is mapped into ISUP IRS  Test Purpose Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as indicated in table 6.3.6-6  ISUP Parameter values INFO: <pre></pre>						
Selection criteria       PICS 6.3.1/2 AND PICS 6.3.2/3         Test Purpose name       INFO request is mapped into ISUP IRS         Test Purpose       Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as indicated in table 6.3.6-6         ISUP Parameter values       IRS: MCID response indicator MCID_rsp         SIP Parameter values       INFO:	TP number	TP_406_006	Reference	7.5.9.2.3		
Test Purpose name  INFO request is mapped into ISUP IRS  Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as indicated in table 6.3.6-6  ISUP Parameter values  IRS: MCID response indicator MCID_rsp  INFO: <pre></pre>	TSS reference	IMS-SS/MCID/				
Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as indicated in table 6.3.6-6  IRS: MCID response indicator	Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3				
MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as indicated in table 6.3.6-6  ISUP Parameter values  IRS: MCID response indicator  MCID_rsp  SIP Parameter values  INFO: xml version="1.0"  mcid  response McidResponseIndicator>XML_McidRsp Comments  Message flows  Mg MGCF ISUP  INVITE → IAM  100 Trying ← INFO ← IDR  200 OK INFO → IRS  INFO  200 OK INFO ← IDR</th <th>Test Purpose name</th> <th colspan="5">INFO request is mapped into ISUP IRS</th>	Test Purpose name	INFO request is mapped into ISUP IRS				
indicated in table 6.3.6-6   ISUP Parameter values	Test Purpose					
IRS: MCID response indicator MCID_rsp  INFO:		MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as				
MCID_rsp		indicated in table 6.3.6-6				
INFO:	ISUP Parameter values	IRS: MCID response indicate	or			
xml version="1.0" mcid response McidResponseIndicator>XML_McidRsp         Comments         Message flows       Mg       MGCF       ISUP         INVITE       →       IAM         100 Trying       ←       IDR         INFO       ←       ←         200 OK INFO       →       IRS         200 OK INFO       ←       →		MCID_rsp				
mcid   response   McidResponse   McidResponse	SIP Parameter values	INFO:				
response>		xml version="1.0"</th <th colspan="4"><?xml version="1.0"</th></th>	xml version="1.0"</th			
McidResponseIndicator>XML_McidRsp           Comments         Mg         MGCF         ISUP           INVITE         →         IAM           100 Trying         ←         IDR           INFO         ←         ←           200 OK INFO         →         IRS           200 OK INFO         ←         →		mcid				
Message flows         Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         ←         IDR           INFO         ←         ←         IDR           200 OK INFO         →         IRS           200 OK INFO         ←         →		·				
Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         IDR           INFO         ←         ←         IDR           200 OK INFO         →         IRS           200 OK INFO         ←         →         IRS		McidResponseIndicator> <b>XML_McidRsp</b> </th				
INVITE → IAM  100 Trying ← INFO ← IDR  200 OK INFO → IRS  200 OK INFO ←	Comments					
100 Trying INFO	Message flows	Mg	MGCF	ISUP		
INFO		INVITE -	<b>→</b>	IAM		
200 OK INFO  INFO  ≥ IRS 200 OK INFO  ←		100 Trying ←				
INFO → IRS 200 OK INFO ←		INFO +	<b>+</b>	IDR		
200 OK INFO ←		200 OK INFO →				
200 OK INFO ←						
200 OK INFO ←		INFO -	<b>→</b>	IRS		
Apply post test routine		200 OK INFO				
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	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 mapped into ISUP IRS Calling Party number		
Test Purpose	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent.  The XML OrigPartyIdentity is mapped into the Calling party:  If the country code of the OrigPartyIdentity 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 OrigPartyIdentity URI and send in the Address signals of the Calling party number.  If the country code of the OrigPartyIdentity URI is not equal to the country code where the SUT is located the Nature of address is set to 'International number', the '+' is removed from the user part of the XML OrigPartyIdentity URI and send in the Address signals of the Calling party number.  The XML OrigPartyPresentationRestriction value XML_orig_restr is mapped into the Address presentation restriction indicator APRI_value of the Calling party number as indicated in table 6.3.6-7		
ISUP Parameter values	IRS: MCID response in MCID included Calling Party num Address prese	dicator d	
SIP Parameter values	INFO: xml version="1.0"  mcid  response McidResponse  OrigPartyldent		
Comments			
Message flows	Mg INVITE 100 Trying INFO 200 OK INFO	MGCF  + + +	ISUP  → IAM  ← IDR  → IRS
	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	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 GenericNumber is mapped into ISUP IRS Additional calling Party number					
Test Purpose	Ensure that on receipt of an	INFO request the XML 'mcid' M	cidResponseIndicator is set to			
	MCID_rsp, an ISUP IRS is s					
		mapped into the Additional calli				
		e GenericNumber URI is equal				
		re of address is set to 'National				
		removed from the user part of the				
	<ul> <li>and send in the Address signals of the Additional calling party number.</li> <li>If the country code of the GenericNumber URI is not equal to the country code where</li> </ul>					
		lature of address is set to 'Inter				
		part of the XML GenericNumber	URI and send in the Address			
	signals of the Additional		gen_restr is mapped into the			
		ion indicator <b>APRI_value</b> of the				
	number as indicated in table		Additional calling party			
ISUP Parameter values	IRS: MCID response indica					
loor randingtor values	MCID included	2101				
	Generic number					
	Additional calling	Party number				
		tion restriction indicator=APRI_	value			
	Address signal					
SIP Parameter values	INFO:					
	xml version="1.0"</th					
	mcid					
	response>					
	McidResponseIndicator>1 GenericNumber>derived from the Generic number Address signal					
Comments	Generichumberer	resentationRestriction> <b>XML_ge</b>	in_restr </th			
Message flows	Mg	MGCF	ISUP			
Wessage nows	_	→ →	IAM			
	100 Trying	<b>+</b>	IAWI			
	INFO	<u>`</u>	IDR			
	-					
	200 010 1141 0					
	INFO → IRS					
	200 OK INFO					
	Apply post test routine					
	Apply poor tool Touring					

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	7.5.10.1	
			table 7.5.10.1.1,	
			table 7.5.10.1.2	
TSS reference	IMS-SS/CUG/			
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 u	isergroup interlock code	
Test Purpose	Ensure that on receipt of an IN			
	application/vnd.etsi.cug+xml a			
	'networkIndicator' is mapped in			
	Identity indicator and the XML		apped into the ISUP Closed	
	user group interlock code Bina	ry code indicator		
ISUP Parameter values	IAM:			
	Optional forward call in			
	Closed user group			
	Closed user group inte			
	Network Identity mapped from XML networkIndicator Binary code mapped from XML cugInterlockBinaryCode			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd	.etsi.cug+xml		
	xml version="1.0"</th <th></th> <th></th>			
	cug			
		cator=any proper value		
		kBinaryCode=any proper va	lue	
	cugCommur	nicationIndicator		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<del>-</del>	IAM	
	100 Trying ₩			
	Apply post test routine			

TP number	TP_407_002	Reference	7.5.10.1	
			table 7.5.10.1.1.	
			table 7.5.10.1.3	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23			
Test Purpose name	Mapping of the SIP XML CUG Element to the ISUP closed user group call indicator included in the optional Forward Call Indicator Parameter			
Test Purpose		an INVITE request contain		
			y, an IAM is sent. The XML	
			JP Optional forward call indicator	
		dicator as indicated in table		
ISUP Parameter values	IAM:			
	Optional forward	call indicator		
		roup call indicator= <b>CUG_in</b>	d	
	Closed user group			
	Network Identi	ty		
	Binary code			
SIP Parameter values	INVITE:			
	Content-Type: application			
	xml version="1.</th <th>0"</th> <th></th>	0"		
	cug			
		kIndicator		
		rlockBinaryCode	0000 : 1	
0	cugCor	mmunicationIndicator=CUG	S_COM_ING	
Comments	84	MOOF	IOLID	
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying ←			
	Apply post test routine			

# 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	7.5.10.1
	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 released if the PSTN/ISDN network does not support CUG, CUG without outgoing access		
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.etsi.cug+xml xml version="1.0" cug networkIndicator cugInterlockBinaryCode cugCommunicationIndicator='11'</th		
Comments			
Message flows	Mg INVITE + 403 Forbidden + ACK	•	ISUP

TP number	TP 407 004	Reference	7.5.10.1	
	1 10 00 .		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 treated as a	n ordinary call if the PSTN/ISD	N network does not support	
	CUG, CUG with outgoing acce	•		
Test Purpose	Ensure that on receipt of an IN		ontent-Type	
	application/vnd.etsi.cug+xml ar			
	'10', the communication is treat			
	support CUG. A Closed user g			
ISUP Parameter values				
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndic	ator		
	cugInterlockE			
	cugCommunicationIndicator='10'			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP_407_005	Reference	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 treated as an ordinary call if the PSTN/ISDN network does not support CUG. Non-CUG call				
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 IAM				
ISUP Parameter values					
SIP Parameter values	INVITE:				
	Content-Type: application/vnd.etsi.cug+xml				
	xml version="1.0"</th				
	cug				
	networkIndicator				
	cugInterlockE	•			
	cugCommuni	cationIndicator='00'			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				

TP number	TP_407_006	Reference	7.5.10.2	
			table 7.5.10.2.2	
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 usergroup interloccode to SIP XML CUG element			
Test Purpose	Ensure that on receipt of	Ensure that on receipt of an IAM and a Closed user group interlock code parameter is		
	present, an INVITE requ	uest is sent. The Network Ide	entity indicator is mapped into the XML	
	networkIndicator eleme	nt, the Binary code is mappe	d into the XML cugInterlockBinaryCode	
ISUP Parameter values	IAM:		<u> </u>	
	Optional forward	l call indicator		
		group call indicator		
		up interlock code		
		entity=any proper value		
		≘any proper value		
SIP Parameter values	INVITE:			
	Content-Type: application	on/vnd.etsi.cua+xml		
	xml version="</th <th></th> <th></th>			
	cug			
		orkIndicator= mapped from	Network Identity	
		iterlockBinaryCode= mappe		
		ommunicationIndicator	sa nom <b>Emary code</b>	
Comments	Jaget	ori i i di d		
Message flows	Mg	MGCF	ISUP	
	IAM	→	→ INVITE	
	IVIVI	•	← 100 Trying	
	100 1171119			
		Apply post test ro	outine	

TP number	TP_407_007	Reference	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 usergroup interloccode to SIP XML CUG element				
Test Purpose	Ensure that on receipt of an IAM and an Optional forward call indicator is present set to				
	CUG_ind, an INVITE request is sent. The XML cugCommunicationIndicator is mapped				
	from the ISUP Closed user group call indicator set to CUG_ind as indicated in table 6.3.7-2				
ISUP Parameter values	IAM:				
	Optional forward call indicator				
	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				
	networkIndicator				
	cugInterlockBinaryCode				
	cugCommunicationIndicator=CUG_COM_ind				
Comments					
Message flows	Mg	MGCF	ISUP		
	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

TP number	TP_407_008	Reference	7.5.10.2,			
			1.5.2.4.2/Q.735.1			
TSS reference	IMS-SS/CUG/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/1					
Test Purpose name	Communication is released if the IMS network does not support CUG, CUG without outgoing access					
Test Purpose	call indicator is set to network does not sup	Ensure that on receipt of an 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				
ISUP Parameter values	IAM:  Optional forward call indicator Closed user group call indicator=C UG call, outgoing access not allowed Closed user group interlock code Network Identity Binary code  REL:  Cause indicator Cause value=29 Diagnostics=3					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM REL RLC	→ ← → Apply post test re	outine			

TP number	TP_407_009	Reference	7.5.10.2,			
			1.5.2.4.2/Q.735.1			
TSS reference	IMS-SS/CUG/	·	<u>.</u>			
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/23 AND PICS 6.3.10/1				
Test Purpose name	Communication is tre	ated as an ordinary call if the IM	IS network does not support CUG,			
-	CUG with outgoing a	ccess	• •			
Test Purpose			ward call indicator Closed user group			
			g access allowed and the IMS network			
	does not support the	CUG supplementary service, th	e communication is treated as an			
	ordinary call					
ISUP Parameter values	IAM:					
	Optional forwa	ard call indicator				
	Closed use	Closed user group call indicator=C UG call, outgoing access allowed				
	Closed user g	Closed user group interlock code				
	Network Id	dentity				
	Binary cod	le				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
_	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	Apply post test routine					

## 6.3.8 CCBS/CCNR

TP number	TP_408_001	Reference	7.5.11.1,		
i Filulibei	17_406_001	Reference	,		
			table 7.5.11.1.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Mapping of CCNR possible ind	ication in the ACM			
Test Purpose	Ensure that on receipt of an ACM and a CCNR possible indicator is present set to 'CCNR possible' a 180 Ringing is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'NR'				
ISUP Parameter values	IAM: Called party number Number digits ACM: Called party status Subscriber free CCNR possible indicato CCNR possible	г			
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>rty number digits&gt;;purpose=ca</th><th>all-completion;m=NR</th></sip:called>	rty number digits>;purpose=ca	all-completion;m=NR		
Comments		• •			
Message flows	Mg	MGCF	ISUP		
_	INVITE →	<b>→</b>	IAM		
	180 Ringing ←	<b>+</b>	ACM		
	Apply post test routine				

TP number	TP 408 002	Reference	7.5.11.1,		
			table 7.5.11.1.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Mapping of CCNR possible ind	ication in the CPG			
Test Purpose	Ensure that on receipt of an CF				
	indicator is present set to 'CCN				
	present, the URI is derived from	n the Called party number, the	purpose parameter is set to		
	call-completion, the m parame	ter is set to 'NR'			
ISUP Parameter values	IAM: Called party number				
	Number digits				
	ACM: Called party status				
	No indication				
	CPG: Event indicator				
	Alerting				
	CCNR possible indicator				
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>rty number digits&gt;;purpose=ca</th><th>all-completion;m=NR</th></sip:called>	rty number digits>;purpose=ca	all-completion;m=NR		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	← ACM(no indication)				
	180 Ringing ← ← CPG(Alerting)				
		Apply post test routine			

TP number	TP_408_003	Reference	7.5.11.1,		
			table 7.5.11.1.1		
TSS reference	IMS-SS/CC/		•		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Mapping of CCBS possible ind	ication in the REL			
Test Purpose	Ensure that on receipt of an REL message Cause #17 and a CCBS possible indicator in the Diagnostic field is set to 'CCBS possible' a 486 Busy here is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'BS'				
ISUP Parameter values	IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible				
SIP Parameter values		arty number digits>;purpose=ca	all-completion;m=BS		
Comments			·		
Message flows	Mg INVITE → 486 Busy here ← ACK →	<b>←</b>	ISUP IAM REL RLC		

TP number	TP 408 0	04	Reference	-	7.5.11.1,
					table 7.5.11.1.1
TSS reference	IMS-SS/C0	C/			
Selection criteria	PICS 6.3.1	/2 AND PICS 6.3.2	/24		
Test Purpose name	Mapping o	f m parameter in the	NVITE request URI	into CCSS	parameter in the IAM
Test Purpose					r set to 'BS' or 'NR' an IAM
	is sent and	I the CCSS call indi	cator parameter is pre	esent and th	ne value is set to 'CCSS call'
ISUP Parameter values	IAM: CC	SS call indicator			
		CCSS call			
SIP Parameter values	INVITE:	<request uri="">;m=</request>	NR or ;m=BS		
Comments					
Message flows		Mg	MGCF		ISUP
	INVITE	-	•	<b>→</b>	IAM
	100 Trying	€	•		
			Apply post test re	outine	

TP number	TP_408_005	R	Reference	7.5.11.1,	
				table 7.5.11.1.1	
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 A	ND PICS 6.3.2/24			
Test Purpose name	Mapping of Ca	II-Info header in th	e INVITE into CCS	S parameter in the IAM	
Test Purpose	Ensure that on	receipt of an INVI	TE request and a C	Call-Info header is present the purpose	
				neter set to 'BS' or 'NR' an IAM is sent	
	and the CCSS	call indicator para	meter is present an	d the value is set to 'CCSS call'	
ISUP Parameter values	IAM: CCSS	call indicator			
	CCS	SS call			
SIP Parameter values		equest URI>			
	Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion; m=BS or</sip:called>				
	NR				
Comments					
Message flows	Mg	]	MGCF	ISUP	
	INVITE	<b>→</b>		→ IAM	
	100 Trying	<b>←</b>			
			Apply post test ro	outine	

TP number	TP_408_006	Reference	7.5.11.1,			
			table 7.5.11.1.2			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24				
Test Purpose name	Invocation of CCBS in the I-MC	SCF				
Test Purpose	Ensure that on receipt of a SUI					
	parameter set to 'BS' and Ever					
	UDT or XUDT is sent containing					
	REQUEST invoke CalledParty					
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to			
	'TRUE'					
TCAP Parameter values	TC Begin					
	CCBS REQUEST invoke					
	CalledPartyNumber derived from the <b>To</b> header					
	CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header					
	RetainSupported					
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>					
	Event: call-completion					
Comments						
Message flows	Mg	MGCF	SCCP			
	SUBSCRIBE → (X)UDT (TC-Begin)					
	202 Accepted					
	Apply post test routine					

TP number	TP_408_007	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Invocation of CCBS in the I-MC	SCF			
Test Purpose	Ensure that on receipt of a SUI				
	'call-completion' and a Call-Info	header with purpose parame	ter ser to call-completion and		
	m parameter set to 'BS', a SCC	P UDT or XUDT is sent conta	ining a TC-Begin REQUEST		
	invoke Data field. The TC-Begi	n REQUEST invoke CalledPar	rtyNumber is derived from the		
	To header, the CallingPartyNui	mber is derived from the From	header and the		
	RetainSupported is set to 'TRU	E'			
TCAP Parameter values	TC Begin				
	CČBS REQUEST invoke				
	CalledPartyNumber derived from the <b>To</b> header				
	CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header				
	RetainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <request uri=""></request>				
	Event: call-completion				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
Comments					
Message flows	Mg	MGCF	SCCP		
-	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted		, , , , , , , , , , , , , , , , , , , ,		
	•	Apply post test routine			

TP number	TP 408 008	Reference	7.5.11.1,			
	11 _ 100_000	11010101100	table 7.5.11.1.2			
TSS reference	IMS-SS/CC/	<u> </u>	14010 7.0.11.1.2			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24				
	Invocation of CCNR in the I-MG					
Test Purpose name			UDI ( ) d			
Test Purpose	Ensure that on receipt of a SUE					
	parameter set to 'NR' and Even					
	UDT or XUDT is sent containing					
	REQUEST invoke CalledPartyN					
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to			
	'TRUE'					
TCAP Parameter values	TC Begin					
	CCBS REQUEST invoke					
	CalledPartyNumber derived from the <b>To</b> header					
	CallingPartyNumber derived from the P-Asserted-Identity header					
	RetainSupported					
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR				
	Event: call-completion					
Comments						
Message flows	Mg	MGCF	SCCP			
_	SUBSCRIBE → (X)UDT (TC-Begin)					
	202 Accepted		-3 /			
	Apply post test routine					

TP number	TP_408_009	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Invocation of CCNR in the I-MC	GCF .			
Test Purpose	Ensure that on receipt of a SUE				
	'call-completion' and a Call-Info	header with purpose parame	ter ser to call-completion and		
	m parameter set to 'NR', a SCC	CP UDT or XUDT is sent conta	ining a TC-Begin REQUEST		
	invoke Data field. The TC-Begi	n REQUEST invoke CalledPar	tyNumber is derived from the		
	To header, the CallingPartyNur	mber is derived from the From	header and the		
	RetainSupported is set to 'TRU	E'			
TCAP Parameter values	TC Begin				
	CCBS REQUEST invoke				
	CalledPartyNumber derived from the <b>To</b> header				
	CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header				
	RetainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <request uri=""></request>				
	Event: call-comp	letion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
Comments					
Message flows	Mg	MGCF	SCCP		
-	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted		, , ,		
	·	Apply post test routine			

TP number	TP 408 010	Reference	7.5.11.1,		
Transo.	11 _400_010		table 7.5.11.1.2		
TCC reference	IMC CC/CC/		table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "closed" is interw	orked into CCBS SUSPEND		
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m parame	eter is present in the Request		
	line is set to 'BS' the Event hea	der field contains the value 'pre	esence', and a PIDF XML		
	MIME body is present the prese				
	containing a TC-Cont CCBS SI				
TCAP Parameter values	TC-Cont: CCBS SUSPEND				
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS			
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>closed</basic>				
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	Mg	MGCF	SCCP		
	Invoke a successful CCBS request and remote user is now free				
	PUBLISH → (X)UDT (TC-Cont)				
	200 OK (PUBLISH)				
	· · · · · · · · · · · · · · · · · · ·				
1	Apply post test routine				

TP number	TP_408_011	Reference	7.5.11.1,			
			table 7.5.11.1.2			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24				
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "closed" is interw	orked into CCBS SUSPEND			
Test Purpose	Ensure that on receipt of a PUE					
	'presence' and a Call-Info head					
	parameter set to 'BS' and a PID					
	'closed', a SCCP UDT or XUDT	is sent containing a TC-Cont	CCBS SUSPEND Data field			
TCAP Parameter values	TC-Cont: CCBS SUSPEND					
SIP Parameter values	PUBLISH: <request uri=""></request>					
	Event: presence					
		g party number digits>;purpose	e=call-completion; m=BS			
	Content-Type: application/pidf+xml					
	xml version="1.0" encoding="UTF-8"?					
	<pre><pre><pre><pre></pre></pre></pre></pre>					
	<status></status>					
	<basic>closed</basic>					
Comments	Note the XML semantic is schematically the alias is not considered					
Message flows	Mg	MGCF	SCCP			
	Invoke a successful CCBS request and remote user is now free					
	PUBLISH → (X)UDT (TC-Cont)					
	200 OK (PUBLISH)					
		Apply post test routine				

TP number	TP 408 012	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "open" is interwo	orked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE	•		
_	line is set to 'BS' the Event hea			
	MIME body is present the present	ence status set to 'open', a SC	CP UDT or XUDT is sent	
	containing a TC-Cont CCBS RI	ESUME Data field		
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre></pre></pre></pre>			
	<status></status>			
	<basic>open-</basic>			
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Successful CCBS request and remote user is free originating user suspended			
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
	Apply post test routine			

TP number	TP_408_013	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "open" is interwo	rked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE			
	'presence', a Call-Info header v			
	parameter set to 'BS' and a PID			
	open, a SCCP UDT or XUDT i	s sent containing a TC-Cont C	CBS RESUME Data field	
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
_	<basic>open</basic>			
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Successful CCBS request and remote user is free originating user suspended			
	PUBLISH → (X)UDT (TC-Cont)			
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP 408 014	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/		1.5	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDE		vorked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m parame	eter is present in the Request	
•	line is set to 'NR' the Event hea			
	MIME body is present the present			
	containing a TC-Cont CCBS SI			
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	NR		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>closed</basic>			
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Invoke a successful CCNR request and remote user is now free			
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)	
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP_408_015	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "closed" is interv	vorked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value	
	'presence', a Call-Info header w			
	parameter set to 'NR' and a PII			
	'closed', a SCCP UDT or XUDT	is sent containing a TC-Cont	CCBS SUSPEND Data field	
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>			
Comments	Note the XML semantic is sche	•		
Message flows	Mg	MGCF	SCCP	
	Invoke a successful CCNR request and remote user is now free			
	PUBLISH → (X)UDT (TC-Cont)			
	200 OK (PUBLISH) ←			
		Apply post test routine		

TP number	TD 400 046	Reference	7 5 11 1	
i P number	TP_408_016	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "open" is interwo	orked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m parame	eter is present in the Request	
	line is set to 'NR' the Event hea	der field contains the value 'pr	esence' and a PIDF XML	
	MIME body is present the present	ence status set to 'open', a SC	CP UDT or XUDT is sent	
	containing a TC-Cont CCBS RI			
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">; m=NR</request>			
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open-</basic>			
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Successful CCNR request and remote user is free originating user suspended			
	PUBLISH →	<b>→</b> `	(X)UDT (TC-Cont)	
	200 OK (PUBLISH) ←		,	
	Apply post test routine			

TP number	TP_408_017	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "open" is interwo	orked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE			
	'presence' a Call-Info header w			
	parameter set to 'NR' and a PII			
	'open', a SCCP UDT or XUDT i	s sent containing a TC-Cont C	CBS RESUME Data field	
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
		g party number digits>;purpos	e=call-completion; m=BS	
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Successful CCNR reques	Successful CCNR request and remote user is free originating user suspended		
	PUBLISH → (X)UDT (TC-Cont)			
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP 408 018	Reference	7.5.11.1,	
Ti Hamber	11 _400_010	Kererenee	table 7.5.11.1.2	
T00 (	IMO 00/00/		table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	SUBSCRIBE with m=BS and E			
Test Purpose	Ensure that on receipt of a SUE	BSCRIBE request and a m par	ameter is present in the	
	Request line is set to 'BS' and I	Event header field contains the	value 'call-completion' and a	
	Call-Info header with purpose p	parameter ser to call-completion	n and m parameter set to 'BS'	
	and a Expires header set to '0',			
	CANCEL Data field		3	
TCAP Parameter values	TC-End: CCBS CANCEL			
SIP Parameter values	SUBSCRIBE: <request uri="">; m=BS</request>			
	Event:call-completion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Expires: 0			
Comments				
Message flows	Mg	MGCF	SCCP	
	A CCBS is successfully invoked			
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-End)	
	202 Accepted		, , , , ,	
	Apply post test routine			

TP number	TP_408_019	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	SUBSCRIBE with m=NR and E	xpires header set to '0' is inter	worked into CCBS CANCEL		
Test Purpose	Ensure that on receipt of a SUI	BSCRIBE request and a m par	ameter is present in the		
	Request line is set to 'NR' and				
	Call-Info header with purpose p				
	and a Expires header set to '0',	a SCCP UDT or XUDT is sen	t containing a TC-End CCBS		
	CANCEL Data field				
TCAP Parameter values	TC-End: CCBS CANCEL				
SIP Parameter values	SUBSCRIBE: <request uri="">; m=NR</request>				
	Event:call-completion				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>				
	Expires: 0		•		
Comments					
Message flows	Mg	MGCF	SCCP		
_	A CCNR is successfully invoked				
	SUBSCRIBE → (X)UDT (TC-End)				
	202 Accepted		,		
	Apply post test routine				

TP number	TP 408 020	Reference	7.5.11.1,		
Ti mamber	11 _400_020	Troisi chico	table 7.5.11.1.3		
TCC reference	IMC CC/CC/		table 7.5.11.1.5		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2				
Test Purpose name	TC-Cont CCBS REQUEST (ref	turn result) is interworked into I	NOTIFY cc-service-retention		
	present	·			
Test Purpose	Ensure that on receipt of a UD	T or XUDT containing a TC-Co	nt CCBS REQUEST (return		
_	result) Data field and the Retail	nSupported element is set to T	RUE, a NOTIFY request is		
	sent and the cc-state body is s				
TCAP Parameter values	TC-Cont: CCBS REQUEST (r				
	RetainSupported	,			
SIP Parameter values	NOTIFY: Event: call-completion				
on rarameter values	Content-Type: application/call-completion				
	cc-state: queued				
	cc-state. queded				
	co-service-retention, true				
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted		. ,		
	NOTIFY <b>←</b>	<b>←</b>	(X)UDT (TC-Cont)		
			(A)0D1 (10-Cont)		
	200 OK (NOTIFY) →				
		Apply post test routine			

TP number	TP_408_021	Reference	7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	TC-Cont CCBS REQUEST (ref	urn result) is interworked into	NOTIFY cc-service-retention		
	not present				
Test Purpose	Ensure that on receipt of a UD	Γ or XUDT containing a TC-Co	ont CCBS REQUEST (return		
	result) Data field and the Retail	Supported element is set to F	ALSE, a NOTIFY request is		
	sent and the cc-state body is se	et to 'queued' a cc-service-rete	ention body is not present		
TCAP Parameter values	TC-Cont: CCBS REQUEST (r	eturn result)			
	RetainSupported	I=FALSE			
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted ←				
	NOTIFY	<b>←</b>	(X)UDT (TC-Cont)		
	200 OK (NOTIFY) →		, , , , ,		
	, ,	Apply post test routine			

TP number	TP_408_022	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	CCBS Return error TC-End Sh	ortTermDenial received, 480	Temporarily Unavailable	
	response to SUBCRIBE			
Test Purpose	Ensure that on receipt of a UD			
	error) component in the Data fi		a 480 Temporarily Unavailable	
	final response to the SUBCRIB	SE CCBS request is sent		
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	TC-End CCBS REQUEST (Return error)			
	ShortTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>			
	Event: call-completion			
Comments				
Message flows	Mg	MGCF	SCCP	
	SUBCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)	
	480 Temporarily Unavailable	←	← (X)UDT (TC-End)	
	Apply post test routine			

TP number	TP_408_023	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	CCBS Return error TC-End Lo	ngTermDenial received, 403 F	orbidden unavailable	
	response to SUBCRIBE			
Test Purpose	Ensure that on receipt of a UD			
	error) component in the Data fi		403 Forbidden final response	
	to the SUBCRIBE CCBS reque	est is sent		
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	TC-End CCBS REQUEST (Return error)			
	LongTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>			
	Event: call-completion			
Comments				
Message flows	Mg	MGCF	SCCP	
	SUBSCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)	
	403 Forbidden	<b>←</b>	← (X)UDT (TC-End)	
	Apply post test routine			

TP number	TP_408_024	Reference	7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	CCNR Return error TC-End Shresponse to SUBCRIBE	nortTermDenial received, 480	Temporarily Unavailable		
Test Purpose	error) component in the Data fi	Ensure that on receipt of a UDT or XUDT containing a TC-End CCNR REQUEST (Return error) component in the Data field set to 'ShortTermDenial', a 480 Temporarily Unavailable final response to the SUBCRIBE CCNR request is sent			
TCAP Parameter values	TC Begin CCNR REQUEST invoke TC-End CCNR REQUEST (Re ShortTermDe	•			
SIP Parameter values	SUBSCRIBE: <request uri="">, Event: call-comp</request>				
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)		
	480 Temporarily Unavailable	<b>←</b>	← (X)UDT (TC-End)		
	Apply post test routine				

TP number	TP 408 025	Reference	7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/	•			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/24			
Test Purpose name	CCNR Return error To response to SUBCRIE		eived, 403 Forbidden unavailable		
Test Purpose	error) component in th	Ensure that on receipt of a UDT or XUDT containing a TC-End CCNR REQUEST (Return error) component in the Data field set to 'LongTermDenial', a 403 Forbidden final response to the SUBCRIBE CCNR request is sent			
TCAP Parameter values	TC Begin CCNR REQUEST TC-End CCNR REQU Long				
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>				
Comments		•			
Message flows	Mg SUBSCRIBE 403 Forbidden	M → ← Apply post test	GCF SCCP  → (X)UDT (TC-Begin)  ← (X)UDT (TC-End)		

TP number	TP_408_026	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-End CCBS CANCEL receive	red after CCBS was successfu	lly invoked	
Test Purpose	Ensure that on receipt of an UD			
	CCBS was successfully invoke			
	to 'BS' in the Request line and		et to 'terminated ' and the	
	subexp-params reason set to '	noresource'		
TCAP Parameter values	TC-End			
	CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""></request>			
	Event:call-completion			
	Subscription-State: terminated; reason=noresource			
Comments				
Message flows	Mg	MGCF	SCCP	
	CCBS request successfully invoked			
	NOTIFY ← (X)UDT (TC-End)			
	200 OK NOTIFY →		·	
	Apply post test routine			

TP number	TP_408_027	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/24		
Test Purpose name	TC-End CCBS CANCEL rece	ved after CCNR was successfu	ully invoked	
Test Purpose		DT or XUDT containing a TC-E ed, a NOTIFY request is sent of		
		l a Subscription-State header s		
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""> Event:call-completion Subscription-State: terminated; reason=noresource</request>			
Comments	·			
Message flows	Mg	MGCF	SCCP	
	CCNR request successfully invoked			
	NOTIFY	<b>-</b>	(X)UDT (TC-End)	
	200 OK NOTIFY	•		
	Apply post test routine			

TP number	TP_408_028	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/24		
Test Purpose name	Interworking of Remote	user free indication at the I-N	/IGCF	
Test Purpose			a TC-Cont REMOTE USER FREE	
	invoke component in th	e Data field, a NOTIFY reque	st is sent and a cc-state body is	
	present set to 'ready'			
TCAP Parameter values	TC-Cont			
	CCBS REMOTE US	SER FREE		
SIP Parameter values	NOTIFY: Event: call-c	ompletion		
	Content-Typ	e: application/call-completion		
	cc-state:	ready		
Comments				
Message flows	Mg	MGCF	SCCP	
	CCNR request successfully invoked			
	NOTIFY	<b>←</b>	<b>←</b> (X)UDT (TC-Cont)	
	200 OK (NOTIFY)	<b>→</b>	. , . , .	
	Apply post test routine			

TP number	TP_408_029	Reference	7.5.11.2,			
			table 7.5.11.2.1			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24				
Test Purpose name	Mapping of CCNR possible inc	dication in a 180 into the CCNR	possible indicator in the ACM			
Test Purpose	Ensure that on receipt of a 180	Ringing provisional response	and a Call-Info header is			
	present set to the URI of the te	erminating user and a purpose	parameter set to			
	'call-completion' and m parame	eter ser to 'NR', an ACM is sen	t and a CCNR possible			
	indicator Parameter is present	set to 'CCNR possible'				
ISUP Parameter values	IAM: Called party number	IAM: Called party number				
	Number digits					
	ACM: Called party status					
	Subscriber free	Subscriber free				
	CCNR possible indicator					
	CCNR possible					
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>arty number digits&gt;;purpose=ca</th><th>all-completion</th></sip:called>	arty number digits>;purpose=ca	all-completion			
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
		Apply post test routine	5 5			

TP number	TP_408_030	Reference	7.5.11.2,		
			table 7.5.11.2.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/24			
Test Purpose name	Mapping of CCNR possible in	dication in a 180 into the CCNR	possible indicator in the CPG		
Test Purpose	Ensure that on receipt of a 180	Ringing provisional response	and a Call-Info header is		
		erminating user and a purpose			
	'call-completion' and m parame	eter ser to 'NR', a CPG is sent i	if an ACM was sent before		
	and a CCNR possible indicato	r Parameter is present set to 'C	CNR possible'		
ISUP Parameter values	IAM: Called party number				
	Number digits				
	ACM: Called party status				
	No indication				
	CPG: Event indication				
	Alerting				
	CCNR possible indicator				
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:called p<="" th=""><th>arty number digits&gt;;purpose=ca</th><th>all-completion</th></sip:called>	arty number digits>;purpose=ca	all-completion		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	Start Ti/w2			
	ACM(no indication) ←	Timeout Ti/w2 →	INVITE		
	CPG(Alerting) ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_408_031	Reference	7.5.11.2,	
			table 7.5.11.2.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24		
Test Purpose name	486 with Call-Info header is ma	apped into REL cause 17 and 0	CCBS possible	
Test Purpose	Ensure that on receipt of a 486			
	of the terminating user and a p	urpose parameter set to 'call-c	completion' and m parameter	
	ser to 'BS', a REL message is	sent and the Cause value is se	et to 17 or 34 the Diagnostics	
	is set to 'CCBS possible'			
ISUP Parameter values	REL: Cause indicator			
	Cause=17 or 34			
	Diagnostics= CCBS possible			
SIP Parameter values	486: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion</sip:called>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	REL ←	<b>←</b>	486 Busy Here	
	RLC →	<b>→</b>	ACK	
	Apply post test routine			

TP number	TP_408_032	Reference	7.5.11.2,
			table 7.5.11.2.1
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/24	
Test Purpose name	CCSS call indicator in INVITE	IAM is mapped into the m pa	rameter in the Request line in the sent
Test Purpose	Ensure that on receipt of an IAM and a CCSS call indicator parameter is present set to 'CCSS call', an INVITE request is sent and the Request line contains a m parameter set to 'NR' or 'BS'		
ISUP Parameter values	IAM: CCSS call indic	cator	
SIP Parameter values	INVITE: <request uri="">;m=NR or ;m=BS Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion; m=BS or NR</sip:called></request>		
Comments			
Message flows	ISUP	MGCF	Mg
_	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test r	

TP number	TP_408_033	Reference	7.5.11.2,
			table 7.5.11.2.2
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24	
Test Purpose name	TC-Begin CCBS REQUEST (in	voke) is mapped into SUBCRI	IBE request invokes CCBS
Test Purpose	Ensure that on receipt of a UD		
	(invoke) component, a SUBSC		
	Identity header are derived from		
	is derived from the CCBS REQ		
	'call-completion' the Request lir	ne contains the m parameter s	et to 'BS'
TCAP Parameter values	TC-Begin		
	CCBS REQUEST invoke		
	CalledPartyNumber		
	CallingPartyNumber		
	retainSupported		
	TRUE		
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>		
		from the CCBS REQUEST Cal	
	To: <derived calledpartynumber="" ccbs="" from="" request="" the=""></derived>		
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>		
		CallingPartyNumber >	•
	Event: call-comp	letion	
	Expires: <any th="" va<=""><th>lue&gt;</th><th></th></any>	lue>	
Comments			
Message flows	SCCP	MGCF	Mg
	(X)UDT(TC-Begin) →	<b>→</b>	SUBSCRIBE
		<b>←</b>	202 Accepted
		Apply post test routine	

TP number	TP_408_034	Reference	7.5.11.2,			
i iidiiibei	11 _400_034	Reference	table 7.5.11.2.2			
TCC reference	IMC CC/CC/		table 7.5.11.2.2			
TSS reference		IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/					
Test Purpose name	TC-Begin CCNR REQUEST (in					
Test Purpose	Ensure that on receipt of a UD					
	(invoke) component, a SUBSC					
	Identity header are derived from	m the CCNR REQUEST Callir	ngPartyNumber the To header			
	is derived from the CCNR REC	QUEST CalledPartyNumber the	e Event header field is set to			
	'call-completion' the Request li	ne contains the m parameter s	set to 'NR'			
TCAP Parameter values	TC-Begin					
	CCNR REQUEST invoke					
	CalledPartyNumber					
	CallingPartyNumber					
	retainSupported					
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR				
		From: <derived callingpartynumber="" ccnr="" from="" request="" the=""></derived>				
	To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>					
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>					
	1 /tosoftod last	CallingPartyNumber				
	Event: call-comp					
Comments	Event. can-comp	Detion Expires. <	arry value>			
• • • • • • • • • • • • • • • • • • • •	SCCP	MGCF	Ma			
Message flows			Mg			
	(X)UDT(TC-Begin) →	<b>→</b>	SUBSCRIBE			
		<b>+</b>	202 Accepted			
		Apply post test routine				

TP number	TP_408_035	Reference	7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-Cont CCBS SUSPEND is in	nterworked into PUBLISH with	m=BS and PIDF basic status	
	"closed"			
Test Purpose	CCBS or CCNR is invoked and			
	TC-Cont CCBS SUSPEND inve			
	m parameter in the Request UF			
	a PIDF XML MIME body is pres	sent the presence status set to	o 'closed'	
TCAP Parameter values	TC-Cont			
	CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=BS or ;m=NR</request>			
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	d		
Comments	Note the XML semantic is sche	matically the alias is not consi	dered	
Message flows	SCCP	MGCF	Mg	
	Invoke a successful CCBS/CCNR request and remote user is now free			
	(X)UDT(TC-Cont) →	<b>→</b>	PUBLISH	
		<b>←</b>	200 OK (PUBLISH)	
		Apply post test routine	,	

TP number	TP 408 036	Reference	7.5.11.2,		
i Filulibei	17_400_030	Reference	*		
T00 (	11.10.00/00/		table 7.5.11.2.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	TC-Cont CCBS RESUME is in	terworked into PUBLISH with	m=NR and PIDF basic status		
	"open"				
Test Purpose	CCBS or CCNR is invoked and	d the remote user is free the o	riginating user is suspended.		
_	Ensure that on receipt of a TC	-Cont CCBS SUSPEND invok	e component, a PUBLISH		
			RI set to 'BS' or 'NR' the Event		
			sent the presence status set to		
	'open'	, ,	•		
TCAP Parameter values	TC-Cont				
	CCBS RESUME				
SIP Parameter values	PUBLISH: <reguest uri="">;m='BS' or ;m=NR</reguest>				
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	•			
	<status></status>				
	<pre>  /basic&gt;open/basic&gt;</pre>				
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	SCCP	MGCF	Mg		
	Successful CCBS/CCNR request and originating user suspended				
	(X)UDT(TC-Cont) → PUBLISH				
	(X)35 T(TO 36H)				
	Apply post test routine				
	Apply post test routile				

TP number	TP_408_037	Reference	7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-End CCBS CANCEL is inte	rworked into SUBSCRIBE with	n m=BS or NR and Expires	
	header set to '0'			
Test Purpose	A CCBS or CCNR is successfu	Illy invoked. Ensure that on rec	eipt of a UDT or XUDT	
	containing a TC-End CCBS CA			
	parameter is present in the Red		Event header field is set to	
	'call-completion' and the Expire	es header is set to '0'		
TCAP Parameter values	TC-End: CCBS CANCEL			
SIP Parameter values	SUBSCRIBE: <request uri="">;</request>	m=BS or ;m='NR'		
	Event:call-completion			
	Expires: 0			
Comments				
Message flows	SCCP	MGCF	Mg	
	A CCBS is successfully invoked			
	(X)UDT (TC-End) →	<b>→</b>	SUBSCRIBE	
		<b>←</b>	202 Accepted	
		Apply post test routine		

TP number	TP 408 038	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/		•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/24		
Test Purpose name	A NOTIFY cc-state 'queued' a	nd cc-service-retention 'true' is	mapped into a TC-Cont	
	CCBS REQUEST (return resu			
Test Purpose			r field is set to 'call-completion'	
	the cc-state body is set to 'que	eued' and the cc-service-retenti	on body is set to 'true', a	
		REQUEST (return result) con	nponent is present the	
	RetainSupported element is se	et to 'TRUE'		
TCAP Parameter values	TC-Cont: CCBS REQUEST (	return result)		
	RetainSupporte	d=TRUE		
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
	cc-service-reten	tion: true		
Comments				
Message flows	SCCP	MGCF	Mg	
	CCBS request already invoked			
	(X)UDT (TC-Cont) ←	<b>←</b>	NOTIFY	
	,	<b>→</b>	200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_408_039	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/24		
Test Purpose name	A NOTIFY cc-state 'queued'	and no cc-service-retention body	y present is mapped into a	
	TC-Cont CCBS REQUEST (	return result) retain not supporte	d	
Test Purpose		OTIFY request the Event heade		
		ieued' and the cc-service-retenti		
		SS REQUEST (return result) con	nponent is present the	
	RetainSupported element is	set to 'FALSE'		
TCAP Parameter values	TC-Cont: CCBS REQUEST			
	RetainSupport	ed=FALSE		
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
Comments				
Message flows	SCCP	MGCF	Mg	
	CCBS request already invoked			
	(X)UDT (TC-Cont) ←	<b>←</b>	NOTIFY	
		<b>→</b>	200 OK (NOTIFY)	
		Apply post test routine	· ,	

TP number	TP 408 040	Reference	7.5.11.2,	
	11 _ 10 _ 10		table 7.5.11.2.3	
TSS reference	IMS-SS/CC/	<u> </u>	1.5	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name	A NOTIFY cc-state 'qu	eued' and cc-service-retention	on 'true' is mapped into a TC-Cont	
	CCNR REQUEST (reti	urn result) retain supported		
Test Purpose			ent header field is set to 'call-completion'	
	the cc-state body is se	t to 'queued' and the cc-servi	ice-retention body is set to 'true', a	
	TC-Cont is sent and th	e CCNR REQUEST (return r	esult) component is present the	
	RetainSupported elem	ent is set to 'TRUE'		
TCAP Parameter values	TC-Cont: CCNR REQ	UEST (return result)		
	RetainS	upported=TRUE		
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
	cc-servi	ce-retention: true		
Comments				
Message flows	SCCP	MGCF	Mg	
	CCNR request already invoked			
	(X)UDT (TC-Cont)	<b>←</b>	♠ NOTIFY	
			→ 200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_408_041	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS	6 6.3.2/24			
Test Purpose name			on 'true' is mapped into a TC-Cont		
	CCNR REQUEST (retu	rn result) retain not support	ed		
Test Purpose			ent header field is set to 'call-completion'		
			ice-retention body is not present, a		
			result) component is present the		
	RetainSupported eleme	ent is set to 'FALSE'			
TCAP Parameter values	TC-Cont: CCNR REQU	JEST (return result)			
	RetainSu	pported=FALSE			
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
Comments					
Message flows	SCCP	MGCF	Mg		
	CCNR request already invoked				
	(X)UDT (TC-Cont) ← NOTIFY				
			→ 200 OK (NOTIFY)		
		Apply post test routine			

TP number	TP_408_042	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name	CCBS request unsucc	essful 480 Temporarily Unav	vailable is received	
Test Purpose	Ensure that on receipt of a 480 Temporarily Unavailable final response upon CCBS was requested, a TC-End CCBS REQUEST (Return error) component containing the ShortTermDenial Element is sent			
TCAP Parameter values	TC-End CCBS REQUI	EST (Return error) rtTermDenial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS Event: call-completion</request>			
Comments		•		
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin)	<b>→</b>	→ SUBCRIBE	
	(X)UDT (TC-End)	<b>←</b>	<ul> <li>480 Temporarily Unavailable</li> </ul>	
	Apply post test routine			

TP number	TP_408_043	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/24		
Test Purpose name	CCNR request unsuc	cessful 480 Temporarily Un	available is received	
Test Purpose	Ensure that on receipt of a 480 Temporarily Unavailable final response upon CCNR was requested, a TC-End CCNR REQUEST (Return error) component containing the ShortTermDenial Element is sent			
TCAP Parameter values	TC-End CCNR REQU	JEST (Return error) ortTermDenial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>			
Comments		•		
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin)	<b>→</b>	→ SUBCRIBE	
	(X)UDT (TC-End)	<b>←</b>	<ul> <li>480 Temporarily Unavailable</li> </ul>	
	Apply post test routine			

TP number	TP_408_044	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/24		
Test Purpose name	CCBS request unsuccessful	403 Forbidden is received		
Test Purpose	Ensure that on receipt of a 40			
	TC-End CCBS REQUEST (R	eturn error) component conta	nining the LongTermDenial	
	Element is sent			
TCAP Parameter values	TC-End CCBS REQUEST (R	eturn error)		
	LongTermD	)enial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>			
	Event: call-completion			
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin) →	<b>→</b>	SUBCRIBE	
	(X)UDT (TC-End) ←	<b>←</b>	403 Forbidden	
		Apply post test routine		

TP number	TP_408_045	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/24		
Test Purpose name	CCNR request unsucce	essful 403 Forbidden is sen	į (	
Test Purpose	Ensure that on receipt of a 403 Forbidden final response upon CCNR was requested, a TC-End CCNR REQUEST (Return error) component containing the LongTermDenial Element is sent			
TCAP Parameter values	TC-End CCNR REQUE	ST (Return error) TermDenial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>			
Comments		•		
Message flows	SCCP	MGCF	Mg	
_	(X)UDT (TC-Begin)	<b>→</b>	→ SUBCRIBE	
	(X)UDT (TC-End)	←	← 403 Forbidden	
	Apply post test routine			

TP number	TP 408 046	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/	·	•	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name	CCBS invoked. SUBC	RIBE Expires 0 received TC-E	End is sent	
Test Purpose	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params <b>reason</b> set to 'noresource' upon CCBS was successfully invoked, a TC-End message is sent containing the CCBS CANCEL			
	component	-	-	
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request th="" u<=""><th></th><th></th></request>			
	Event:call-completion Subscription-State: terminated; reason=noresource			
Comments				
Message flows	SCCP	MGCF	Mg	
_	CCBS request successfully invoked			
	(X)UDT (TC-End)	<b>←</b>	← NOTIFY	
			→ 200 OK NOTIFY	
	Apply post test routine			

TP number	TP_408_047	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/24			
Test Purpose name		CF SUBCRIBE Expires 0 receiv			
Test Purpose	Ensure that on receipt of a N	OTIFY request the Subscription params reason set to 'noresour	n-State header is set to		
		ind message is sent containing			
	,	and message is sent containing	THE COBS CANCEL		
TOAD Developed	component				
TCAP Parameter values	TC-End				
	CCBS CANCEL				
SIP Parameter values	NOTIFY: <request uri=""></request>				
	Event:call-completion				
	Subscription-State: terminated; reason=noresource				
Comments					
Message flows	SCCP	MGCF	Mg		
	CCNR request successfully invoked				
	(X)UDT (TC-End) ←	· <b>←</b>	NOTIFY		
		<b>→</b>	200 OK NOTIFY		
	Apply post test routine				

TP number	TP_408_048	Reference	7.5.11.2,			
			table 7.5.11.2.3			
TSS reference	IMS-SS/CC/	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND P	ICS 6.3.2/24				
Test Purpose name	Interworking of Rem	ote user free indication at the C	)-MGCF			
Test Purpose		Ensure that on receipt of a NOTIFY request the cc-state body is set to 'ready' upon Call				
			essage is sent containing the CCBS			
	REMOTE USER FR	EE component				
TCAP Parameter values	TC-Cont	TC-Cont				
	CCBS REMOTE USER FREE					
SIP Parameter values	NOTIFY: Event: call-completion					
	Content-Type: application/call-completion					
	cc-state: ready					
Comments						
Message flows	SCCP	MGCF	Mg			
	CCBS or CCNR request successfully invoked					
	(X)UDT (TC-Cont)	<b>←</b>	← NOTIFY			
			→ 200 OK (NOTIFY)			
	Apply post test routine					

## 6.3.9 Communication Waiting (CW)

TP number	TP_409_001	Reference	7.5.12			
TSS reference	IMS-SS/CW/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8	PICS 6.3.1/2 AND PICS 6.3.2/8				
Test Purpose name	Mapping of Generic notification	'call waiting' in an ACM into A	lert-Info header			
Test Purpose	Ensure that on receipt of an AC	M the Called party status indic	cator is set to 'subscriber free'			
	and a Generic notification indic					
	Ringing is sent. An Alert-Info he	eader is present and the urn is	set to			
	'urn:alert:service:call-waiting'					
ISUP Parameter values	<b>ACM:</b> Backward call indicator	ACM: Backward call indicator				
	Called party status ir	ndicator				
	Subscriber free					
	Generic notification					
	Call is a waiting call					
SIP Parameter values	180: Alert-Info					
	urn:alert:service:call-waiting					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	<b>→</b>	IAM			
	180 Ringing ←	<b>←</b>	ACM			
	Apply post test routine					

TP number	TP_409_002	Reference	7.5.12			
TSS reference	IMS-SS/CW/					
Selection criteria	PICS 6.3.1/2 AND PICS	PICS 6.3.1/2 AND PICS 6.3.2/8				
Test Purpose name	Mapping of Generic notif	ication 'call waiting' in a CP	G into Alert-Info header			
Test Purpose	notification indicator para	Ensure that on receipt of a 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						
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting					
Comments		•				
Message flows	Mg INVITE 180 Ringing	MGCF  →  ←  Apply post test re	ISUP  → IAM ← ACM ← CPG  Dutine			

TP number	TP_409_003	Reference		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 ACM	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in an ACM			
Test Purpose	to 'urn:alert:servic	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', an ACM is sent containing a Generic notification indication parameter set to 'Call is a waiting call'			
ISUP Parameter values	Called   Sub Generic no	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				
Comments					
Message flows	Mg IAM ACM Apply post test r	MGCF → ← outine	<b>→</b>	ISUP INVITE 100 Trying 180 Ringing	

TP number	TP_409_00	)4	Reference		7.5.12
TSS reference	IMS-SS/CV	IMS-SS/CW/			
Selection criteria	PICS 6.3.1	/2 AND PICS 6.3.2/	3		
Test Purpose name	Interworkin CPG	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a CPG			
Test Purpose	to 'urn:alert	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 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	Gen	CPG: Event indicator     Alerting     Generic notification     Call is a waiting call			
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting				
Comments					
Message flows	Mg IAM ACM	<b>→</b>	T i/w2 expired	<b>→</b>	ISUP INVITE 100 Trying
	CPG Apply pos	t test routine		<b>←</b>	180 Ringing

## Annex A (informative): Bibliography

 $ISO/IEC\ 9646-3: "Information\ technology\ -\ Open\ Systems\ Interconnection\ -\ Conformance\ testing\ methodology\ and\ framework\ -\ Part\ 3:\ The\ Tree\ and\ Tabular\ Combined\ Notation\ (TTCN)".$ 

## History

Document history			
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