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IMS Network Testing (INT);
Interworking between the IP Multimedia (IM)
Core Network (CN) subsystem and
Circuit Switched (CS) networks;
Conformance Test Specification;

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

#### Reference

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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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## Contents

Intelle	ectual Property Rights	5
Forev	word	5
1	Scope	6
2	References	6
2.1	Normative references	
2.2	Informative references.	
2		
3	Definitions, symbols and abbreviations	
3.1	Definitions	
3.2 3.3	SymbolsAbbreviations	
4	Test Suite Structure (TSS)	
5	Test Purposes (TP)	
5.1	Introduction	
5.1.1	TP naming convention	
5.1.2	Test strategy	
5.1.3	Test purpose structure	9
6	Test purposes (TP)	9
6.1	SIP-ISUP protocol interworking	
6.1.1	Incoming call interworking from SIP to ISUP at I-MGCF	
6.1.1.1		
6.1.1.2	2 Sending of COT	39
6.1.1.3	8	
6.1.1.4		
6.1.1.5	6	
6.1.1.6		
6.1.1.7	S	
6.1.1.8	1 /	
6.1.1.9	r · · · r	
6.1.2	Outgoing Call Interworking from ISUP to SIP at O-MGCF	
6.1.2.1		
6.1.2.2		
6.1.2.3	1	
6.1.2.4		
6.1.2.5		
6.1.2.6	$\mathcal{E}$	156
6.1.2.7		
6.1.2.8	1	
6.1.2.9		
6.1.2.1	1 '	
6.1.2.1		
6.1.3	SIP Support of charging	
6.1.3.1 6.1.3.2	6	
6.2	2 Outgoing Call Interworking O-MGCF	
6.2.1	Void	
6.2.2	Connected line presentation and restriction (COLP/COLR).	
6.2.3	Malicious call identification	
6.2.4	Subaddressing (SUB)	
6.2.5	Call Forwarding Busy (CFB)/ Call Forwarding No Reply (CFNR) / Call Forwarding Uncon-	
	(CFU)	
6.2.6	Explicit Call Transfer (ECT)	290
6.2.7	Call Waiting	293

6.2.8	Call Hold	294
6.2.9	Call Completion on busy subscriber	305
6.2.10	Completion of Calls on No Reply (CCNR)	305
6.2.11	Terminal Portability (TP)	
6.2.12	Conference calling (CONF)/Three-Party Service (3PTY)	307
6.2.13	Closed User Group (CUG)	
6.2.14	Multi-Level Precedence and Pre-emption (MLPP)	
6.2.15	Global Virtual Network Service (GVNS)	316
6.2.16	Reverse charging (REV)	
6.2.17	User-to-User Signalling (UUS)	319
6.2.17.1	User-to-User Signalling (UUS) service 1 (implicit)	319
6.2.17.2	User-to-User Signalling (UUS) service 1 (explicit)	
6.2.17.3	User-to-User Signalling (UUS) service 2	
6.2.17.4	User-to-User Signalling (UUS) service 3	324
6.2.18	Anonymous Call rejection	326
6.3	IMS Supplementary Services	327
6.3.1	Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR)	327
6.3.2	Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)	350
6.3.3	Communication Diversion (CDIV)	356
6.3.4	Conference call (CONF)	391
6.3.5	Message Waiting Indication (MWI)	400
6.3.6	Malicious Communication Identification (MCID)	400
6.3.7	Closed User Group (CUG)	407
6.3.8	CCBS/CCNR	412
6.3.9	Communication Waiting (CW)	433
Annex A	A (informative): Bibliography	435
History .		436

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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 to the Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 10), 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 an 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 10).

## 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 10)".
[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; Conformance Test Specification; 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".
[6]	ETSI TS 129 658: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification (3GPP TS 29.658 Release 9)".

### 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

**ACM** 

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

Address Complete Message

### 3.3 Abbreviations

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

**ANM** ANswer Message **APM** APplication transport Message APP **APplication transport Parameter ASE Application Service Element CGB** Circuit Group Blocking message **CGBA** Circuit Group Blocking Acknowlege message COT Continuity message **GRA** Group Reset Acknowlege message Group ReSet message GRS Initial Address Message **IAM** Implementation Under Test IUT optional Backward Call Indicator oBCI oFCI optional Forward Call Indicator **REL** RELease message **RLC** ReLease Complete message **RSC** ReSet Circuit message System Under Test SUT 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
		Charging	TP_121_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
		Charging	TP_221_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

IS-SS	11.10.00/OID OID	TD 404
	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_<	Identifier: TP_ <group>_<nnn></nnn></group>				
<group> =</group>	group	3 digit field representing gr	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 when explicitly stated.

## 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	Sending_of_IAN	1/			
Selection criteria						
Test Purpose name	Sending of IAM					
Test Purpose	Ensure that on recep message.	tion of a SIP IN	VITE requesting	g a sessio	on, the I-N	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>				
		Ap	ply post test ro	outine		

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 a=curr:qos local none		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos none remote sendrecv		
	402. Domino 400 rel		
	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=com.qos remote senareov		
	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		
Comments	a=des:qos mandatory remote sendrecv		
Message flows	Mg MGCF ISUP		
Wessage nows	INVITE → IAM		
	100 Trying $\leftarrow$		
	183 Session Progress		
	PRACK +		
	200 OK (PRACK) ← UPDATE → COT		
	200 OK (UPDATE)		
	Apply post test routine		
	Αργιγ μουι τευι τουτιπε		

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
	100. Domino 100ral
	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-comique femete contaites
	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 LIPPATE
	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-acc.qcc mandatory remote condition
Message flows	Mg MGCF ISUP
	INVITE →
	100 Trying ←
	183 Session Progress ←
	PRACK
	200 OK (PRACK)
	UPDATE → IAM
	200 OK (UPDATE)
	Apply post test routine
<u> </u>	11 71

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		
	100. Domino. 100 rel		
	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		
	4 05 m 405 16 m 605 05 05 m 605 05 05 05 m 605 05 05 05 05 05 05 05 05 05 05 05 05 0		
	UPDATE:		
	SDP a=curr:qos local sendrecv		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	OCC CIVIDDATE		
	200 OK UPDATE		
	SDP a=curr:gos local sendrecv		
	a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
Comments	a-des.qos mandatory remote sendreov		
Message flows	Mg MGCF ISUP		
incodago nono	INVITE → IAM		
	100 Trying ←		
	183 Session Progress		
	PRACK →		
	200 OK (PRACK)		
	UPDATE → COT		
	200 OK (UPDATE)		
	Apply post test routine		
	1 Apply post tost routine		

TP number	TP_101_005		Reference	7.2.3.1.1		
TSS reference	SIP-ISUP/Basic	call/Sending_of	f_IAM/			
Selection criteria	PICS 6.1.1/1 AN	ID PICS 6.2.1/1	AND PICS 6.2.1/2			
Test Purpose name	Preconditions su	upport indicated	in the Require head	er		
Test Purpose	Ensure that the I	Preconditions p	rocedure is successf	ul if the support of	Precondition is	
			. The IAM is sent after			
		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: Require					
		curr:qos local r				
		a=curr:qos remote none				
		a=des:qos mandatory local sendrecv				
	a=	edes:qos none i	remote sendrecv			
	183: Require: 10	Oral				
	•	=curr:qos local r	none			
		curr:qos local i curr:qos remot				
	a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	UPDATE:					
	SDP a=curr:qos local sendrecv					
		curr:qos remot				
			atory local sendrecv			
	a=des:qos mandatory remote sendrecv					
	200 OK LIDDATE					
		200 OK UPDATE SDP a=curr:qos local sendrecv				
		curr:qos local s=curr:qos remot				
			atory local sendrecv			
			atory remote sendred	:V		
Comments	-			-		
Message flows	Mg		MGCF		ISUP	
	INVITE	<b>→</b>				
	100 Trying	<b>←</b>				
	183 Session Pro	ogress <b>←</b>				
	PRACK	→				
	200 OK (PRACK	<) <del>-</del>				
	UPDATÈ	´ <b>→</b>		→ IAM		
	200 OK (UPDAT	TE) <b>←</b>				
	,	•	Apply post test ro	outine		
,	•		- · · · ·			

TP number	TP_101_006				
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 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 '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: 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				
	100 D : 100 L				
	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=des.qos mandatory remote sendrecv a=conf:qos remote sendrecv				
	a=con.qos remote sendrecv				
	UPDATE:				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remote none				
	a=des:gos mandatory local sendrecv				
	a=des:gos mandatory remote sendrecv				
	100000000000000000000000000000000000000				
	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_007		Reference	7.3.	3.1.1	
TSS reference	SIP-ISUP/Basic	call/Sending_o	f_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 su	upport indicated	I in the Supported hea	ader		
Test Purpose	Ensure that the	Preconditions p	rocedure is successf	ul if the suppo	ort of Precondition is	
					ATE was received. The	
			s set to 'no COT to be			
ISUP Parameter values			cator = 'no COT to be	expected'		
SIP Parameter values	<b>INVITE:</b> Suppor					
		curr:qos local				
		curr:qos remo				
			atory local sendrecv			
	a=	=des:qos none	remote sendrecv			
	100. Domilios 10	20rol				
	183: Require: 10 SDP a=		2020			
		curr:qos local= curr:qos remot				
			atory local sendrecv			
			atory remote sendrec	V		
		conf:gos remo=		·V		
	<u> </u>	-comique rome	10 001101001			
	UPDATE:					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote none					
	a=	des:qos mand	atory local sendrecv			
	a=des:qos mandatory remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
			atory local sendrecv			
	a=des:qos mandatory remote sendrecv					
Comments						
Message flows	Mg		MGCF		ISUP	
	INVITE	<b>→</b>				
	100 Trying	<b>←</b>				
	183 Session Pro					
	PRACK	<b>→</b>				
	200 OK (PRACE	<) ←				
	UPDATE	→		→ IAN	1	
	200 OK (UPDAT	ΓE) <b>←</b>				
			Apply post test ro	utine		

TP number	TP_101_008   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 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 : 100 I				
	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=con.qos remote sentifecv				
	UPDATE:				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remote none				
	a=des:gos mandatory local sendrecv				
	a=des:gos mandatory remote sendrecv				
	1-2				
	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	1010				
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	Reference	7.3.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sending_c	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 heade	r. The IAM is sent after the U	PDATE was received. The		
	Nature of connection indicator	s set to 'no COT to be expec	eted'.		
ISUP Parameter values	IAM: Nature of connection indi	cator = 'no COT to be expect	ed'		
SIP Parameter values	INVITE: Require: precondition, 100rel				
	SDP a=curr:qos local	SDP a=curr:qos local none			
	a=curr:qos remote none				
		atory local sendrecv			
	a=des:qos none	remote sendrecv			
	183: Require: 100rel				
	SDP a=curr:qos local				
	a=curr:qos remo				
	a=des:qos mandatory local sendrecv				
	a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv				
	a=conr.qos remo	ite senarecv			
	UPDATE:				
	SDP a=curr:qos local	sendrecy			
	a=curr:qos remo				
		atory local sendrecv			
		atory remote sendrecv			
	a=doc.qoc mana	atory romoto contarce.			
	200 OK UPDATE				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remo				
	a=des:qos mand	atory local sendrecv			
	a=des:qos mand	atory remote sendrecv			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE ->				
	100 Trying ←				
	183 Session Progress ←				
	PRACK →				
	200 OK (PRACK) ←				
	UPDATE →	<b>→</b>	IAM		
	200 OK (UPDATE) ←				
	,	Apply post test routine			

TP number	TP_101_009	_a	Reference		7.2.3.1.1	
TSS reference	SIP-ISUP/Ba	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	fulfilled in the IN	VITE request			
Test Purpose			procedure is fulfille			
			mediately sent. Th	e Nature of	connection	indicator is set to
		eck is not require				
ISUP Parameter values		of connection ind	icator = 'continuity	check is no	t required'	
SIP Parameter values	INVITE:					
		d: precondition, 1	00rel			
	or .	11.11				
		precondition, 100				
	SDP	a=curr:qos local				
		a=curr:qos remo		01/		
			datory local sendre remote sendrecv	CV		
		a=ues.qus none	remote sendred			
	180					
	SDP	SDP a=curr:qos local sendrecv				
		a=curr: os remote sendrecv				
			datory local sendre			
	a=des:qos mandatory remote sendrecv					
Comments						
Message flows		lg _	MGCF	_		ISUP
	INVITE	-		<b>→</b>	IAM	
	100 Trying	•		_		
	180 Ringing	•		<b>←</b>	ACM	
	PRACK	-				
	200 OK (PRA	ACK)				
			Apply post tes	t routine		

TP number	TP 101 009	h	Reference		7.3.3.1.1		
TSS reference		SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria			/1 AND PICS 6.2.1	/2			
Test Purpose name		Preconditions fulfilled in the INVITE request					
Test Purpose			procedure is fulfille	nd indicated	in the SDE	Preceived in the	
l cat i di posc							
		INVITE request. The IAM is immediately sent. The Nature of connection indicator is set to 'no COT to be expected'.					
ISUP Parameter values			icator = 'no COT to	be expecte	ed'		
SIP Parameter values	INVITE:						
		d: precondition, 1	00rel				
	or						
	_	orecondition, 100	rel				
	SDP	a=curr:qos loca					
		a=curr:gos remo					
		a=des:gos man	datory local sendre	CV			
		a=des:qos none	e remote sendrecv				
	100						
	180						
	SDP	a=curr:qos loca					
		a=curr:qos remo					
			datory local sendre				
Comments		a=des:qos man	datory remote send	arecv			
			MGCF			ISUP	
Message flows		lg 		<b>→</b>	1004	ISUP	
	INVITE	7		7	IAM		
	100 Trying	<b>4</b>		<b>←</b>	A C N A		
	180 Ringing	<b>*</b>		~	ACM		
	PRACK						
	200 OK (PR	ACK)		4			
			Apply post tes	t 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 re	jected 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:					
	SDP: m= video 4713 RTP	/AVP 31				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>				
	488 Not Acceptable Here	<b>←</b>				
	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 re	ejected session successful		
Test Purpose	Ensure that an unsupported	media type is rejected. The \$	SUT sends in the	SDP answer the
	port number '0' for the conce	rned media type.		
ISUP Parameter values				
SIP Parameter values	INVITE:			
	SDP: m=audio 4711 RT	P/AVP 8		
	m= video 4713 R	ΓP/AVP 31		
	180 Ringing or 183 Session			
	SDP: m=audio <approp< th=""><th></th><th></th><th></th></approp<>			
	m=video 0 RTP/A	VP 31		
Comments				
Message flows	Mg	MGCF	I	SUP
	INVITE	<b>→</b>	→ IAM	
	100 Trying	←		
			← ACM	
	CASE A			
	180 Ringing	←		
	CASE B			
	183 Session Progress	<b>←</b>		
		Apply post test routin	е	

TP number	TP_101_012	Reference	7.2.3.1.1				
TSS reference	SIP-ISUP/Basic call/Sending_	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria							
Test Purpose name	Unsupported codec is deselec	ted					
Test Purpose	Ensure that the SUT removes	a codec from the codec list in t	he 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 Pr	180 Ringing or 183 Session Progress					
	SDP: m=audio <appropria< th=""><th>ate Port #&gt; RTP/AVP 8</th><th></th></appropria<>	ate 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   €	_					
	13 111	Apply post test routine					

TP number	TP_101_013	Reference		7.2.3.1.1		
				1.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sendi	ng_of_IAIM/				
Selection criteria						
Test Purpose name	INVITE request without SD					
Test Purpose	offer in the first reliable nor	n INVITE request without a S n-failure message. The TMR i		ffer, the SUT sends a SDP sent INVITE is set to '3,1 kHz		
IOUD Deservation and the	audio'.					
ISUP Parameter values	IAM:					
	TMR					
	3,1 kHz audio					
SIP Parameter values	INVITE: Supported: 100rel					
	180 Ringing or 183 Session Progress					
	SDP: m=audio 4711 F	RTP/AVP 8				
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	100 Trying	<b>←</b>				
	, ,		<b>←</b>	ACM		
	CASE A					
	180 Ringing	<b>←</b>				
	PRACK	<b>→</b>				
	200 OK PRACK	<del>_</del>				
	200 OK PRACK	~				
	CASE B					
		<b>7</b>				
	183 Session Progress	<del>-</del>				
	PRACK	<b>→</b>				
	200 OK PRACK	<b>←</b>				
		Apply post test routing	ne			

TP number	TP_101_014	Reference	7.2.3.1.1
TSS reference	SIP-ISUP/Basic call/Sending	g_of_IAM/	•
Selection criteria			
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 provision	nal 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	$\rightarrow$ $\rightarrow$	IAM
	100 Trying	<b>←</b>	
		<b>+</b>	ACM
	CASE A		
	180 Ringing	<b>←</b>	
	CASE B		
	183 Session Progress	<b>←</b>	
		Apply post test routine	

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	r		
Test Purpose	Ensure that an IAM is sent af	ter an INVITE request was rece	ived.	
	<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'</li> </ul>			
	Numbering Plan Indicator = 'ISDN (Telephony) numbering plan (Recommendation E.164 [i.1])'.			
ISUP Parameter values		<i>,</i> -		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<b>→</b>	IAM	
	100 Trying	<b>F</b>		
		Apply post test routine		

TP number	TP_101_016	Reference	7.2.3.1.2.1	
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/		
Selection criteria	PICS 6.2.1/21			
Test Purpose name	SendingCompleteInd	ication is mapped into a he	x digit 'F' in the called party number	
Test Purpose	Ensure that on receipt of a PSTN XML SendingCompleteIndication element a hex digit 'F' is sent all last digit in the called party number.			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
	Apply post test routine			

TP number	TP_101_017	Reference	7.2.3.1.2.2		
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/1				
Test Purpose name	Nature of connection indicat	tor			
Test Purpose	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 test routine	ISUP IAM		

TP number	TP_101_018	Reference	7.2.3.1.2	2.2
TSS reference	SIP-ISUP/Basic call/Send	ding_of_IAM/		
Selection criteria	PICS 6.1.1/2			
Test Purpose name	Nature of connection indi	cator		
Test Purpose	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 = 'no COT to be expected or 'COT to be expected'.  Echo control device indicator = outgoing echo control device included.			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg MGCF ISUP			
	INVITE	→	→ IAM	
	100 Trying	<b>←</b>		
	Apply post test routine			

TD	TD 404 040	D-f	7.0.0.4.0.0			
TP number	TP_101_019	Reference	7.2.3.1.2.3			
TSS reference	SIP-ISUP/Basic call/Sending_	of_IAM/				
Selection criteria	NOT PICS 6.2.1/5					
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 audio ,the Forward call indicator is coded as follows:					
	<ul> <li>End-to-end method indica method available).</li> </ul>	ator = ('00') no end-to-end meth	iod available (only link-by-link			
	<ul> <li>Interworking indicator = ('</li> </ul>	1') interworking encountered.				
	<ul> <li>End-to-end information in</li> </ul>	dicator = ('0') no end-to-end inf	ormation available.			
	<ul> <li>ISDN user part/BICC indi-</li> </ul>	cator = ('0') ISDN user part/BIC	C not used all the way.			
	ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all					
	the way.					
	ISDN access indicator = ('0') originating access non-ISDN.					
	<ul> <li>SCCP method indicator =</li> </ul>					
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_of_IAM/			
Selection criteria	NOT PICS 6.2.1/5 AND NOT F	ICS 6.2.1/6		
Test Purpose name	Forward Call indicator			
Test Purpose	<ul> <li>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 no impact of the coding of the Forward call indicator. The Forward call indicator is coded as follows:</li> <li>End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available).</li> <li>Interworking indicator = ('1') interworking encountered.</li> <li>End-to-end information indicator = ('0') no end-to-end information available.</li> <li>ISDN user part/BICC indicator = ('0') ISDN user part/BICC not used all the way.</li> <li>ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way.</li> <li>ISDN access indicator = ('0') originating access non-ISDN.</li> </ul>			
ISUP Parameter values	SCCP method indicator =	(11)		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	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_IAM/			
Selection criteria	PICS 6.2.1/6			
Test Purpose name	Forward Call indicator			
Test Purpose	<ul> <li>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:</li> <li>End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available).</li> <li>Interworking indicator = ('0') no interworking encountered.</li> <li>End-to-end information indicator = ('0') no end-to-end information available.</li> <li>ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way.</li> <li>ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way.</li> <li>ISDN access indicator = ('1') originating access ISDN.</li> </ul>			
	SCCP method indicator = ('00') no indication.			
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	<ul> <li>Ensure that an IAM is sent after an INVITE request was received. If the PSTN XML attachment is present the ProgressIndicator value ProgressDescription = 6, the Forward call indicator is coded as follows:</li> <li>End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available).</li> <li>Interworking Indicator = ('0') no interworking encountered (No. 7 signalling all the way).</li> <li>End-to-end information indicator = ('0') no end-to-end information available.</li> <li>ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way.</li> <li>ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way.</li> </ul>			
	<ul> <li>SCCP method indicator = (</li> </ul>	1') originating access ISDN.	ļ	
ISUP Parameter values	IAM: Forward call indicator	(00) no malcation.		
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	f_IAM/		
Selection criteria				
Test Purpose name	Mapping of calling party categor	ry		
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/Sending_c	of_IAM/		
Selection criteria	PICS 6.2.4/5			
Test Purpose name	G.711 μ-law Coding of TMR			
Test Purpose	Ensure that an IAM is sent afte	r an INVITE request was rece	ived. The Transmission	
	Medium Requirement parameter	er in the IAM is set to '3,1 kHz	audio' derived from the codec	
	PCMU.			
ISUP Parameter values	IAM:			
	TMR			
	3,1 kHz audio			
SIP Parameter values	INVITE:			
	SDP			
	m=audio <port #=""> RTP/AVP 0 <b>or</b> <dynamic-pt></dynamic-pt></port>			
	a=rtpmap:0 PCMU/8000 or	rtpmap: <dynamic-pt> PCMl</dynamic-pt>	J/8000	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	100 Trying ←			
		Apply post test routine		

TP number	TP_101_025	Reference	7.2.3.1.2.5		
TSS reference	SIP-ISUP/Basic call/Sending_c	of_IAM/			
Selection criteria	PICS 6.2.4/5				
Test Purpose name	G.711 A-law 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 to '3,1 kHz audio' derived from the codec PCMA.			
ISUP Parameter values	IAM: TMR 3,1 kHz audio				
SIP Parameter values	INVITE: SDP m=audio <port #=""> RTP/AVF a=rtpmap:8 PCMA/8000 or</port>	P 8 <b>or</b> <dynamic-pt> rtpmap: <dynamic-pt> PCMA</dynamic-pt></dynamic-pt>	v/8000		
Comments					
Message flows	Mg INVITE → 100 Trying ←	<del>=</del>	ISUP IAM		

TP number	TP_101_026	Reference	7.2.3.1.2.5
TSS reference	SIP-ISUP/Basic call/Sending_c	of_IAM/	
Selection criteria	PICS 6.2.4/1		
Test Purpose name	CLEARMODE Coding of TMR		
Test Purpose	Ensure that an IAM is sent afte	r an INVITE request was recei	ved. The Transmission
	Medium Requirement parameter	er in the IAM is set to '64 kBit/s	unrestricted' derived from
	the CLEARMODE codec.		
ISUP Parameter values	IAM:		
	TMR		
	64 kBit/s unrestricted		
SIP Parameter values	INVITE:		
	SDP		
	m=audio <port #=""> RTP/AVF</port>		
	a=rtpmap: <dynamic-pt> 0</dynamic-pt>	CLEARMODE/8000	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	Apply post test routine		

TP number	TP_101_027	Reference	7.2.3.1.2.5
TSS reference	SIP-ISUP/Basic call/Sending_c	of_IAM/	
Selection criteria	PICS 6.2.4/6		
Test Purpose name	T.38 Coding of TMR		
Test Purpose	Ensure that an IAM is sent afte	r an INVITE request was recei	ved. The Transmission
	Medium Requirement paramete	er in the IAM is set to '3,1 kHz	audio' derived from the
	CLEARMODE codec.		
ISUP Parameter values	IAM:		
	TMR		
	3,1 kHz audio		
SIP Parameter values	INVITE:		
	SDP		
	m=image 4 <port #=""> udptl t38 <b>or</b> tcptl t38</port>		
	a=[Based on ITU-T T.38 [4]	]	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
		Apply post test routine	

Table 6.1.1.1-2: Void

TP number	TP_101_028	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.4/1			
Test Purpose name	CLEARMODE Coding of USI			
Test Purpose	Ensure that an IAM is sent after			
	Information parameter in the IA			
	'Unrestricted digital inf. w/tones	s/ann' if the first stated codec	was set to CLEARMODE.	
ISUP Parameter values	IAM:			
	USI			
	Information Transport C	Capability		
	Unrestricted digital i	Unrestricted digital information		
	or			
	Unrestricted digital inf. w/tones/ann			
SIP Parameter values	INVITE:			
	SDP			
	m=audio <port #=""> RTP/AVP <dynamic-pt></dynamic-pt></port>			
	a=rtpmap: <dynamic-pt> (</dynamic-pt>	CLEARMODE/8000		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	→	IAM	
	100 Trying ←	•		
		Apply post test routine		

TP number	TP_101_029	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.4/6			
Test Purpose name	Fax T.38 Coding of USI			
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. The User service Information parameter in the IAM if present is set to '3,1 kHz audio' if the first stated codec was set to T.38.			
ISUP Parameter values	USI Information Transport C 3,1 kHz audio	Capability		
SIP Parameter values	INVITE: SDP m=image 4 <port #=""> udptl t38 or tcptl t38 a=[Based on ITU-T T.38 [4]]</port>			
Comments				
Message flows	Mg INVITE → 100 Trying ←	=		

Table 6.1.1.1-3: Void

TP number	TP_101_030	Reference	7.2.3.1.2.5
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria	PICS 6.2.4/6		
Test Purpose name	T.38 Coding of HLC		
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. The High Layer Compatibility parameter in the IAM if present is set according the mapping described in table 6.1.1.1-4.		
ISUP Parameter values	IAM: HLC High Layer Characterist Facsímile Group 2/3		
SIP Parameter values	INVITE: SDP m=image 4 <port #=""> udptl t3 a=[Based on ITU-T T.38 [4]</port>		
Comments			
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM

### 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 101 031	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/s	Sending of IAM/	1. 1=10.1.1=10	
Selection criteria	PICS 6.2.1/5	<u>J_</u> - <u>-</u> -		
Test Purpose name	Mapping of PSTN XN	//L HighLayerCompatibility		
Test Purpose	Ensure that on receip HighLayerCompatibil IE present in an ISUR	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a HighLayerCompatibility element, this information is mapped into a High Layer Compatibility IE present in an ISUP Access Transport Parameter the High Layer Characteristics value is derived from the PSTN XMLHighLayerCharacteristics element.		
ISUP Parameter values	IAM: ATP High Layer Com High Layer Ch	npatibility naracteristics> <b>HLC_value</b>		
SIP Parameter values	Interpretat Presentati HLOctet4	encoding="utf-8"?> htibility andard>00<		
Comments				
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test re	ISUP → IAM	

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 101 032	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML LowLav	yerCompatibility		
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a LowLayerCompatibility element, this information is mapped into a Low Layer Compatibility IE present in an ISUP Access Transport Parameter the Information Transfer Capability value is derived from the PSTN XMLInformationTransferCapability element.			
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	ability=ITC_VA		
SIP Parameter values	INVITE:			
	<pre><?xml version="1.0" encoding= PSTN</pre></pre>	<pre><?xml version="1.0" encoding="utf-8"?></pre>		
	LowLayerCompatibility> LLOctet3>			
	CodingStandard>00	<		
	InformationTransferCapability>ITC_VA<			
	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_033	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Be	earerCapability 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 Transf	er Capability= <b>ITC_value</b>		
SIP Parameter values	<pre><?xml version="1.0" enco PSTN     BearerCapability     BCoctet3     CodingStandar     InformationTrai BCoctet4     TransferMode>     InformationTrai BCoctet5     Layer1Identific</pre>	ding="utf-8"?> d>00< nsferCapability>ITC_valu -00< nsferRate>10000<	e<	
Comments			101	
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test	ISU → IAM routine	ıΡ

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_034	Reference	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/Se	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.2.1/5AND PICS	S 6.2.1/7				
Test Purpose name	Mapping of PSTN XML	HighLayerCompatibility into	User Teleservice Information			
	parameter	P-m-m-m-m-m-m-m-m-m-m-m-m-m-m-m-m-m-m-m				
Test Purpose			n an INVITE request containing a			
			mapped into a User Teleservice			
			tics value is derived from the PSTN			
	XML HighLayerCharac	cteristics element.				
ISUP Parameter values	IAM:					
	UTI					
		racteristics> <b>HLC_value</b>				
SIP Parameter values	INVITE:					
	PSTN XML MIME body					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLayerC	haracteristics>HLC_value<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
	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_035	Reference	7.2.3.1.2.5a		
TSS reference	SIP-ISUP/Basic cal				
Selection criteria		PICS 6.2.4/1 AND PICS 6.2.4/7			
Test Purpose name	Fall Back connection type is sent				
Test Purpose			nts in a INVITE PSTN XML MIME		
•	body:				
	<ul> <li>The first stated</li> </ul>	codec in the SDP m line is the ed	quivalent to the second		
	BearerCapabili	ty element, the BearerCapability e	element is mapped into the User		
			IAM, the TMR is set according the		
	second PSTN 2	$XML\ InformationTransferCapabilit$	y value.		
	<ul> <li>The second stated codec in the SDP m line is the equivalent to the first</li> </ul>				
		ty element, the BearerCapability e			
			IAM, the TMR prime is set according		
		XML Information Transfer Capabilit	y value.		
ISUP Parameter values	IAM:				
		rmationTransferCapability			
		nformationTransferCapability			
	USI = first BearerCa				
	USI prime = second	d BearerCapability			
SIP Parameter values	INVITE:				
	m=audio <port #=""> RTP/AVP <dynamic-pt> 8/0</dynamic-pt></port>				
	a=rtpmap: <dyn< th=""><th>amic-PT&gt; CLEARMODE/8000</th><th></th></dyn<>	amic-PT> CLEARMODE/8000			
	DOTAL VALL MIME 6	and u			
	PSTN XML MIME b	" encoding="utf-8"?>			
	PSTN	encoding= uti-6 ?>			
	BearerCapabili	itv			
	BCoctet3	··y			
		tandard>00<			
		onTransferCapability>00000<			
	or	уу.			
	Informati	onTransferCapability>10000<			
		, ,			
	BearerCapabili	ity			
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>10001<				
Comments		ns as the first codec CLEARMODE	and as the second codec a G.711		
	codec				
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	100 Trying	<b>←</b>			
		Apply post test ro	utine		

TP number	TP_101_036	Reference	7.2.3.1.2.5a		
TSS reference	SIP-ISUP/Basic call	/Sending_of_IAM/			
Selection criteria	PICS 6.2.1/5 AND P	PICS 6.2.4/1 AND PICS 6.2	.4/7		
Test Purpose name	Fall Back connection	n type is not sent			
Test Purpose	<ul> <li>Fall Back connection type is not sent</li> <li>Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME body:</li> <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> <li>Ensure that the IAM does not contain the Fallback connection type if the succeeding network does not support the Fallback connection type:</li> <li>TMR = Speech or audio 3,1 kHz.</li> <li>USI = Speech or audio 3,1 kHz.</li> <li>A TMR prime parameter is not present.</li> </ul>				
	A USI prime is it.	•			
ISUP Parameter values	IAM: TMR = first Informat TMR prime = is not   USI = speech or aud USI prime = not pres	dio 3,1 kHz			
SIP Parameter values	a=rtpmap: <dyna <?xml="" bc="" bcoctet3="" bearercapabilit="" codingst="" codingst<="" informatic="" mime="" or="" pstn="" th="" version="1.0" xml=""><th>encoding="utf-8"?&gt;  iy  andard&gt;00&lt; onTransferCapability&gt;0000 onTransferCapability&gt;1000 iy  andard&gt;00&lt;</th><th>0&lt; 0&lt; 0&lt;</th></dyna>	encoding="utf-8"?>  iy  andard>00< onTransferCapability>0000 onTransferCapability>1000 iy  andard>00<	0< 0< 0<		
Comments	InformationTransferCapability>10001 <  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.				
Message flows	Mg INVITE 100 Trying	MGCI → ←			
		Apply post te	est routine		

TP number	TP_101_037	Reference	9	7.2.3.1.2.9
TSS reference	SIP-ISUP/Basic call/Sending_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 of the Max-Forwards header, the value is mapped into the Hop counter. The value of the HOP is created from the Max-Forwards header value by applying a given factor.			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	ı	MGCF	ISUP
_	INVITE 100 Trying	<b>→</b> ←	<b>→</b>	IAM
	Apply post test routine			

TP number	TP_101_038	Reference	7.2.3.1.2.10			
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XMI	Mapping of PSTN XML ProgressIndicator				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a					
			into a Progress Indicator IE present			
	in an ISUP Access Tra	ansport Parameter the Progress	description value is derived from the			
	PSTN XML ProgressD	Description element.				
ISUP Parameter values	IAM:					
	ATP Progress Indicate					
	ű	ription= <b>PI_value</b>				
SIP Parameter values	INVITE:					
	xml version="1.0" e</th <th>ncoding="utf-8"?&gt;</th> <th></th>	ncoding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	Location>0000<					
	ProgressOctet <sup>2</sup>					
	ProgressDe	escription>PI_value<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
		Apply post test rou	tine			

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	'0000011'	Origination address is non-ISDN
PI_VA_4	'0000100'	Call has returned to the ISDN
PI_VA_5	'0000101'	Interworking has occurred and has resulted in a telecommunication service change
PI_VA_6	'0001000'	In-band information or an appropriate pattern is now available

TP number	TP_101_039	Reference	7.2.3.1.2A.1.1			
TSS reference	SIP-ISUP/Basic call/Sendin	ng_of_IAM/				
Selection criteria	PICS 6.2.2/1					
Test Purpose name	Number Portability Separat	e Directory Number Ac	Idressing Method is used. A Called			
	Directory Number is presen	nt 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 Called Party Number is set to:					
			ng number in national (significant)			
			ber" <b>or</b> "Network routing number in			
	network specific number					
			to internal network number not allowed.			
	<ul> <li>Numbering plan India</li> </ul>	cator: ISDN (Telephon)	y) numbering plan (Recommendation			
	E.164 [i.1]).					
	<ul> <li>Address Signal: deriv</li> </ul>	ed from the user info o	f the request URI the country code is			
	removed.					
		The Called Directory Number is set to:				
	Nature of address indicator "National (significant) number".					
			to internal network number not allowed.			
	<b>.</b>	cator: ISDN (Telephon)	y) numbering plan ( <i>Recommendation</i>			
	E.164 [i.1]).	:				
	_	Address Signal: derived from the rn parameter if the Number Portability Routing				
	Number contains an E164 number the country code is removed else the address digits					
	applied unchanged.					
ISUP Parameter values	IAM:					
	Called party number, Called Directory Number					
SIP Parameter values	INVITE:					
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>					
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_040	Reference	7.2.3.1.2A.1.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.2/2			
Test Purpose name	Number Portability Concatenated Addressing Method is used. The called party number is present			
Test Purpose	<ul> <li>Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters in the request line, an IAM is sent. The Called Party Number is set to:</li> <li>Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number".</li> <li>Internal Network Number Indicator: routing to internal network number not allowed.</li> <li>Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164 [i.1]).</li> <li>Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed else the address digits applied unchanged. The called party number derived from the user info is appended except the country code.</li> </ul>			
ISUP Parameter values	IAM: Called party 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 INVITE 100 Trying	MGCF → ←	ISUP → IAM	
		Apply post test ro	outine	

TP number	TP_101_041	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 <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:					
		<b>ator:</b> "National (significant) n				
		<ul> <li>Internal Network Number Indicator: routing to internal network number not allowed.</li> <li>Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation</li> </ul>				
	<ul> <li>Address Signal: derived removed.</li> </ul>	from the user info of the req	uest URI the country code is			
	The Network Routing Numb	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]).					
	Address Signal: derived from the rn parameter if the Number Portability Routing     Number contains an E164 number the country code is removed else the address digits applied unchanged.					
ISUP Parameter values	IAM:					
	Called party number, Netw	ork Routing Number				
SIP Parameter values	INVITE:					
	Request URI: sip: <called< th=""><th>number&gt;; rn=<number porta<="" th=""><th>ability Routing Number&gt;; npdi</th></number></th></called<>	number>; rn= <number porta<="" th=""><th>ability Routing Number&gt;; npdi</th></number>	ability 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 101 042	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	5.2.2/4		
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:  Request URI: sip: <called number="">; npdi</called>				
Comments		· •			
Message flows	Mg INVITE → 100 Trying ←	=	ISUP IAM		

TP number	TP_101_043	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	ND PICS 6.2.2/4	
Test Purpose name	Sending of Number Por	rtability Forward Information	1	
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:			
OID Developed	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	<del>)</del>	→ IAM	
	100 Trying ← Apply post test routine			

TP number	TP_101_044	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 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 Forward Information			
SIP Parameter values	INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing=""></number></called>			
Comments				
Message flows	Mg INVITE	MGCF →	ISUP	
	100 Trying	<del></del>	IAIVI	
	Apply post test routine			

TP number	TP_101_045	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 parameter is mapped into IAM TNS parameter				
Test Purpose	<ul> <li>request line, an IAM is se</li> <li>Type of network ide identification.</li> <li>Network identificati</li> <li>Network identificati</li> </ul>	**			
ISUP Parameter values	IAM: Transit network selection				
SIP Parameter values	INVITE:  Request URI: sip: <called number="">; cic=&lt; Carrier identification code &gt;</called>				
Comments					
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test re	ISUP → IAM  Dutine		

TP number	TP_101_046	Reference	7.2.3.1.2.11		
TSS reference	SIP-ISUP/Basic call/Sendir	ng_of_IAM/			
Selection criteria					
Test Purpose name	P-Access-Network-Info hea	ader is sent in the Location	parameter in the IAM		
Test Purpose		Ensure when an INVITE request is received and a P-Access-Network-Info header is present, an IAM is sent and the Location number parameter is present.			
	<ul> <li>The Nature of address field.</li> </ul>	The Nature of address indicator is copied from bit 7 to 1 of octet 1 of the gstn-location			
		re copied from octet 3 to n			
ISUP Parameter values	IAM:  Location number  Nature of address indicator  Copied from bit 7 to 1 of octet 1 of the binary representation of the gstn-location field  Numbering plan indicator  Copied from bit 7 to 5 of octet 2 of the binary representation of the gstn-location field  Address signals				
	Copied from octet 3 to n of the binary representation of the gstn-location field				
SIP Parameter values	INVITE: P-Access-Network-Info:	: gstn-location="[location in	formation in binary representation]"		
Comments			, , ,		
Message flows	Mg	MGCF	ISUP		
_	INVITE 100 Trying	<b>→</b>	→ IAM		
		Apply post test rou	ıtine		

TP number	TP 101 047	Reference	7.2.3.1.2.11		
TSS reference		c call/Sending_of_IAM/			
Selection criteria		<u></u>			
Test Purpose name	P-Access-Netw header present	P-Access-Network-Info header is sent in the Location parameter in the IAM no Privacy header present			
Test Purpose	<ul><li>present, an IAN</li><li>The Address</li></ul>	Ensure when an INVITE request is received and a P-Access-Network-Info header is present, an IAM is sent and the Location number parameter is present.  The Address presentation restriction indicator is copied from bit 4 and 3 of octet 2 of the gstn-location field.			
ISUP Parameter values	Address Copi				
SIP Parameter values	INVITE:  P-Access-Network-Info: gstn-location="[location information in binary representation]"				
Comments					
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test routine	ISUP → IAM		

TP number	TP_101_048	Reference	7.2.3.1.2.11
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria			
Test Purpose name	P-Access-Network-Info header is sent in the Location parameter in the IAM Privacy header set to header		
Test Purpose	Ensure when an INVITE request is received and a P-Access-Network-Info header is present, an IAM is sent and the Location number parameter is present.  The Address presentation restriction indicator is set according the Privacy header value 'header' as well present in the received INVITE request.		
ISUP Parameter values	IAM: Location number Address presentation re Presentation restrice		
SIP Parameter values	INVITE: P-Access-Network-Info: gs Privacy: header	tn-location="[location informa	ation in binary representation]"
Comments			
Message flows	Mg INVITE → 100 Trying ←		ISUP · IAM

TP number	TP_101_049	Reference	7.2.3.1.2.11	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria				
Test Purpose name	P-Access-Network-Info header the IAM	P-Access-Network-Info header 'np' parameter present is sent in the Location parameter in the IAM		
Test Purpose	Ensure when an INVITE request is received and a P-Access-Network-Info header is present, an IAM is sent and the Location number parameter is present.  The Screening indicator is set according the np parameter in the P-Access-Network-Info header in the received INVITE request.			
ISUP Parameter values	IAM:  Location number  Screening indicator  Network provided			
SIP Parameter values	INVITE: P-Access-Network-Info: gs	tn-location="[location informat	ion]";network-provided	
Comments		-		
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM	

TP number	TP_101_050	Reference	7.2.3.1.2.11	
TSS reference	SIP-ISUP/Basic call/	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria				
Test Purpose name	P-Access-Network-Ir in the IAM	nfo header no 'np' parameter pr	esent is sent in the Location parameter	
Test Purpose	present, an IAM is se	Ensure when an INVITE request is received and a P-Access-Network-Info header is present, an IAM is sent and the Location number parameter is present.  The Screening indicator is copied from bit 2 and 1 of octet 2 of the gstn-location field.		
ISUP Parameter values	Copied fro	IAM:		
SIP Parameter values	INVITE: P-Access-Network-Info: gstn-location="[location information]"			
Comments			_	
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test ro	ISUP → IAM  putine	

## 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: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-cominged formation				
	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				
Comments Message flows	Mg MGCF ISUP				
Wessage nows	INVITE → IAM				
	100 Trying				
	183 Session Progress				
	PRACK -				
	200 OK (PRACK)				
	UPDATE → COT				
	200 OK (UPDATE)				
	Apply post test routine				

TP number	TP_102_002 Reference	7.3.3.1.3			
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 con	ditions have been met:			
	<ul> <li>The requested preconditions (if any) in the IMS netwo</li> </ul>	rk have been met.			
	<ul> <li>A possible outstanding continuity check procedure is s</li> </ul>	successfully performed on the			
	outgoing circuit.				
ISUP Parameter values	<b>IAM:</b> Nature of connection indicator = "COT to be expected	d"			
	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				
	100 B : 100 I				
	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:gos local sendrecv				
	a=curr:gos remote none				
		a=des:qos mandatory local sendrecv			
	a=des:gos mandatory remote sendrecv				
	a accided mandatory formatio defination				
	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/Sendir	ng of SAM/	1 -		
Selection criteria	PICS 6.2.3/1	<del>U</del> =			
Test Purpose name	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: 100rel.  After the ISUP IAM message has been sent the I-MGCF receives additional digits. The				
	additional digits are received				
ISUP Parameter values		<u> </u>	•		
SIP Parameter values	INVITE: Supported: 100rel 183 Session Progress: Sup INFO: Content-Type: application SubsequentDigit: <addi< th=""><th>oported: 100rel or Require on/x-session-info</th><th>ed: 100rel</th></addi<>	oported: 100rel or Require on/x-session-info	ed: 100rel		
Comments		<u> </u>			
Message flows	Mg INVITE 100 Trying 183 Session Progress	MGCF → ←	ISUP → IAM		
	INFO 200 OK (INFO)	<b>→ ←</b>	→ SAM		
	INFO 200 OK (INFO)	<b>→</b> ←	→ SAM		
		Apply post test re	outine		

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 rec	uest, sending of SAM		
Test Purpose	After the ISUP IAM message has been sent the I-MGCF receives additional digits. The			
	additional digits are received i	n multiple SIP INVITE requests	3.	<u> </u>
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 ha				
		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 this	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>			
	IN IV (ITE (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	7.2.3.1.4.0		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria					
Test Purpose name	Sending of 180 Ringing after A	CM was received			
Test Purpose	The SUT shall send the SIP 18				
	<ul> <li>ACM with Called party's sta</li> </ul>	tus indicator set to subscriber	free.		
ISUP Parameter values	ACM: BCI Called party status i	ndicator = subscriber free			
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: supported				
	180 ringing				
	P-Early-Media: < authorization of early media>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ← ← ACM				
	Apply post test routine				

TP number	TP_104_002	Reference	7.2.3.1.4.0			
TSS reference	SIP-ISUP/Basic call/Sending	_of_18x/	·			
Selection criteria						
Test Purpose name	Sending of 180 Ringing after	CPG was 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 statu CPG: Event indicator = ALE					
SIP Parameter values	INVITE: Supported: 100rel P-Early-Media: supported 180 ringing P-Early-Media: < authorization of early media>					
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ←	→ IAM			
	180 Ringing	← Apply post test routin	<ul><li>← ACM(no indication)</li><li>← CPG(ALERTING)</li><li>ne</li></ul>			

TP number	TP_104_004	Refer	ence	7.2.3.1	.4	
TSS reference	SIP-ISUP/Basic call/S	Sending_of_18x/		<u> </u>		
Selection criteria	PICS 6.2.1/10					
Test Purpose name	Provide media in a Ca	Provide media in a Call-Info header field, or an Alert-Info header 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 par	ty status indicato	r = subscriber fre	е		
SIP Parameter values	180: Call-Info: <media Alert-Info: <media< th=""><th>,</th><th></th><th></th><th></th></media<></media 	,				
Comments						
Message flows	Mg INVITE 100 Trying 180 Ringing	→ ← ←	MGCF	→ IAM ← ACM	ISUP	

TP number	TP_104_005	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/Sendi	ing_of_18x/				
Selection criteria	PICS 6.2.1/10					
Test Purpose name	Provide media in a Call-Inf	fo header field, or an Alei	t-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 sta	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 r	ISUP  → IAM  ← ACM(no indication)  outine			

TP number	TP_104_006	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 Progress Indicator received in an ACM/CPG				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or CPG event				
	indicator ALERTING, a 180 Ringing is sent. The Progress Indicator IE contained in the				
	ACM or CPG ATP parameter i	s mapped into the PSTN XML	element in the 180 as		
	indicated in table 6.1.1.4-2.				
			us subscriber free 180 Ringing		
		element contains the Progress			
		ed in a CPG Event indicator Al			
		t contains the ProgressIndicate			
ISUP Parameter values		ed party status = subscriber fre	ee ATP contains a Progress		
	Indicator CASE B BCi Calle	· <del>-</del>			
		ed party status = no indication			
	ATP contains a Progress Indicator IE  CPG: ATP contains a Progress Indicator IE				
SIP Parameter values	180:	33 ITUICATOI IL			
on randingtor values	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescription	n>PI_value<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	IAM		
	CASE A	_	1011		
	180 Ringing ←	·	ACM		
	CASE D				
	CASE B	-	A C B 4		
	183 Session Progress		ACM		
	180 Ringing ←	•	CPG		
	_1	Apply post test routine			

TP number	TP_104_007	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 compat	ibility received in an ACM/CPG				
Test Purpose		CM called party status subscrib				
		indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the				
		s mapped into the HighLayerCo	ompatibility PSTN XML			
	element in the 180 as indicated in table 6.1.1.4-3.					
		eceived in an ACM called party				
		N XML element contains the H	ighLayerCompatibility value			
	HLC_value.	control in a CDC Event indicate	an ALEDTING 400 Dinaria a in			
		eceived in a CPG Event indicate ement contains the HighLayerC				
ISUP Parameter values	ACM: CASE A BCi Calle	ed party status = subscriber free	e ATP contains a Progress			
	Indicato	r lÉ	· ·			
	CASE B BCi Calle	ed party status = no indication				
		tains a High layer compatibility	IE			
	CPG: ATP contains a High la	yer compatibility IE				
SIP Parameter values	180:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100< PresentationMethod>01<					
	HLOctet4	J>U1<				
		ristics>HLC_value<				
Comments	riigiiLayerOriaracte	113tic3/11EO_Value\				
Message flows	Mg	MGCF	ISUP			
	INVITE -	<b>→</b>	IAM			
	CASE A					
	180 Ringing	·	ACM			
	CASE D					
	CASE B	_	ACM			
	183 Session Progress		ACM			
	180 Ringing €		CPG			
		Apply post test routine				

TP number	TP_104_008	Reference	7.2.3.1.4		
TCC voterous	CID ICLID/Desis call/Condings	<u> </u>	Table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5	ilita and a second in the ACMA/ODG			
Test Purpose name	Mapping of Low layer compatib				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or 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.  Low layer compatibility received in a CPG Event indicator ALERTING 180 Ringing is				
	sent in the PSTN XML ele	ment contains the LowLayerC	compatibility value ITC_value.		
ISUP Parameter values	ACM: CASE A BCi Calle compatible CASE B BCi Calle	d party status = subscriber from lity IE d party status = no indication ains a Low layer compatibility	ee ATP contains a Low layer		
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding= PSTN     LowLayerCompatibility>     LLOctet3&gt;          CodingStandard&gt;00          InformationTransfer0     LLOctet4&gt;          TransferMode&gt;00</pre>	< Capability>ITC_value<			
Comments					
Message flows	Mg INVITE →	MGCF →	<b>ISUP</b> IAM		
	180 Ringing	+	ACM		
	CASE C 183 Session Progress ← 180 Ringing ←		ACM CPG		

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 an ACM/CPG  Test Purpose Ensure that on receipt of an ACM called party status subscriber free or CPG event indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACI or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 18 as indicated in table 6.1.1.4-5.	TP number	TP_104_009	Reference	7.2.3.1.4		
Test Purpose name  Test Purpose name  Test Purpose  Bapping of Bearer Capability received in an ACM/CPG  Ensure that on receipt of an ACM called party status subscriber free or CPG event indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACI or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 18 as indicated in table 6.1.1.4-5.  ■ Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ ACM: CASE A BCi Called party status = subscriber free ATP contains a Bearer Capability IE  CASE B BCi Called party status = no indication ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180:				Table 7a.0f		
Test Purpose name Test Purpose Ensure that on receipt of an ACM called party status subscriber free or CPG event indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACI or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 18 as indicated in table 6.1.1.4-5.  ■ Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ ACM: CASE A BCI Called party status = subscriber free ATP contains a Bearer Capability IE  CASE B BCI Called party status = no indication ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  ■ Roceita Capability = CPG: ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  ■ Roceita Capability = CPG: ATP contains a Bearer Capability IE  CPG: ATP contai						
Ensure that on receipt of an ACM called party status subscriber free or CPG event indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACI or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 18 as indicated in table 6.1.1.4-5.   Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.   Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.   ACM: CASE A		I .				
indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACI or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 18 as indicated in table 6.1.1.4-5.  ■ Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability RECORET ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ Bearer Capability RECORET ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ■ CASE B BCi Called party status = subscriber free ATP contains a Bearer Capability IE  ■ CASE B BCi Called party status = no indication ATP contains a Bearer Capability IE  ■ CPG: ATP contains a Bearer						
or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 18 as indicated in table 6.1.1.4-5.  • Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  • Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  • Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  • Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  • Bearer Capability IE  • CASE A BCi Called party status = subscriber free ATP contains a Bearer Capability IE  • CPG: ATP contains a Bearer Capability IE  • CPG: ATP contains a Bearer Capability IE  • CPG: ATP contains a Bearer Capability IE  • SIP Parameter values  • 180:  • <a href="mailto:cytological-ale-ale-ale-ale-ale-ale-ale-ale-ale-a&lt;/th&gt;&lt;th&gt;Test Purpose&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;as indicated in table 6.1.1.4-5.  Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free ATP contains a Bearer Capability IE  CASE B BCi Called party status = no indication  ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180:  &lt;! Accord of the contains a Bearer Capability   E  CPG: ATP contains a Bearer Capability   E  CPG: ATP contains a Bearer Capability   E  COdingStandard&gt;00&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;  Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.   Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.    ISUP Parameter values&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=5&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;is sent in the PSTN XML element contains the BearerCapability value ITC_value.  Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.  ACM: CASE A BCi Called party status = subscriber free ATP contains a Bearer Capability IE  CASE B BCi Called party status = no indication  ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180: &lt;180: &lt;1&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=5&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value.    ACM: CASE A&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=5&gt;Bearer Capability received in an ACM called party status subscriber free 180 Ringing&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;the PSTN XML element contains the BearerCapability value ITC_value.  ISUP Parameter values  ACM: CASE A BCi Called party status = subscriber free ATP contains a Bearer Capability IE  CASE B BCi Called party status = no indication ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180: &lt;! Arr contains a Bearer Capability IE  SIP Parameter values  180: &lt;! Arr contains a Bearer Capability IE  SIP Parameter values  180: &lt;! Arr contains a Bearer Capability IE  SIP Parameter values  180: &lt;! Arr contains a Bearer Capability IE  Codingstandard&gt;00&lt;/!-&gt; Information=" utf-8"?=""> PSTN  BearerCapability BCoctet3 Codingstandard&gt;00<!--!---> InformationTransferCapability&gt;ITC_value BCoctet4 TransferMode&gt;00 InformationTransferRate&gt;10000 BCoctet5&gt; Layer1Identification&gt;01 UserInfoLayer1Protocol&gt;00011 Comments  Mg MGCF ISUP INVITE  IAM  CASE A</a>						
ACM: CASE A   BCi Called party status = subscriber free ATP contains a Bearer Capability IE   CASE B   BCi Called party status = no indication ATP contains a Bearer Capability IE   CPG: ATP contains a Bearer Capability IE   CPG: ATP contains a Bearer Capability IE   SIP Parameter values   180:						
Capability IE  CASE B  BCi Called party status = no indication ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180:     180:     27xml version="1.0" encoding="utf-8"?> PSTN   BearerCapability   BCoctet3   CodingStandard>00<						
CASE B BCi Called party status = no indication ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  180: <pre></pre> <pre></pre> <pre></pre> <pre> SIP Parameter values  180: <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	ISUP Parameter values			e ATP contains a Bearer		
ATP contains a Bearer Capability IE  CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN  BearerCapability  BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<   Comments  Message flows  Mg Mg MGCF ISUP  INVITE  ATP contains a Bearer Capability IE  280:  480: 480: 480: 480: 480: 480: 480:						
CPG: ATP contains a Bearer Capability IE  SIP Parameter values  180: xml version="1.0" encoding="utf-8"? PSTN  BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>ITC_value<  BCoctet4  TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<  Comments  Mg MGCF ISUP  INVITE → IAM  CASE A						
SIP Parameter values  180:						
<pre></pre>			Capability IE			
PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<   Comments Mg MGCF ISUP   INVITE → IAM	SIP Parameter values		II			
BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<  Comments  Message flows  Mg MGCF ISUP INVITE → IAM  CASE A			="utt-8"?>			
BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<   Comments Mg MGCF ISUP   INVITE → IAM						
CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<   Comments Mg MGCF ISUP   INVITE → IAM						
InformationTransferCapability>ITC_value< BCoctet4						
BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<  Comments  Message flows  Mg MGCF INVITE  IAM  CASE A						
TransferMode>00<						
InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<  Comments  Message flows  Mg MGCF INVITE → IAM  CASE A						
BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<  Comments  Message flows  Mg MGCF INVITE  IAM  CASE A						
Layer1Identification>01< UserInfoLayer1Protocol>00011<  Comments  Message flows  Mg  MGCF  INVITE  → IAM  CASE A						
UserInfoLayer1Protocol>00011<   Comments						
Comments  Message flows  Mg  MGCF  INVITE  → IAM  CASE A						
INVITE → IAM  CASE A	Comments					
CASE A	Message flows	Mg	MGCF	ISUP		
		INVITE →	<b>→</b>	IAM		
180 Ringing ← ← ACM		CASE A				
		180 Ringing ←	<b>+</b>	ACM		
CASE C		CASE C				
183 Session Progress ← ← ACM		183 Session Progress ←	<b>←</b>	ACM		
180 Ringing ← ← CPG		180 Ringing ←	<b>+</b>	CPG		
Apply post test routine			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_o	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 1 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 not used all the way, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band").				
ISUP Parameter values	ACM: BCI ISDN User Part ind	ACM: BCI ISDN User Part indicator = ISDN User Part not used all the way			
SIP Parameter values	180 Ringing xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<del>-</del>	IAM		
	100 Trying				
	180 Ringing ←	<del>-</del>	ACM		
	Apply post test routine				

TP number	TP 104 011	Reference	7.2.3.1.4		
Ti mamber	11 _104_011	Kererenee	Table 7a.0g		
TSS reference	SID ISLID/Pagia call/Sanding (	f 10v/	Table Ta.og		
TSS reference	SIP-ISUP/Basic call/Sending_c	I_ I 0X/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call indicing in 180	ator into PSTN XML Progress	Indicator element value 2 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 non-ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN).				
ISUP Parameter values		indicator = ISDN User Part use	ad all the way		
loor rarameter values		licator = Terminating access no			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	1 regressifiated				
	ProgressOctet4				
	ProgressOctet4  ProgressDescription>0000010<				
Comments	1 Togrocoz ocompaci	12000010			
Message flows	Mg	MGCF	ISUP		
Wessage nows	INVITE ->				
		=	IAM		
	100 Trying ←				
	180 Ringing ←	<b>←</b>	ACM		
	Apply post test routine				

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	ator into PSTN XML Progress	ndicator 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		ndicator = 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			
i F Humber	IP_104_013	Reference				
			Table 7a.0g			
TSS reference	SIP-ISUP/Basic call/Sending	_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of optional Backwar value 8 sent in 180	d call indicator into PSTN XML	ProgressIndicator element			
Test Purpose	Ensure that on receipt of an	ACM and the optional Backward	d call indicator In-band			
-	information indicator in-band	information or an appropriate p	attern is now available, a 180			
			present the value is set to No 8.			
ISUP Parameter values			ion or an appropriate pattern is			
	now available					
SIP Parameter values	180 Ringing					
	xml version="1.0" encoding</th <th>a="utf-8"?&gt;</th> <th></th>	a="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressOctet+ ProgressDescription>0001000<					
Comments						
Message flows	Mg	MGCF	ISUP			
	_	<b>→</b>	IAM			
	100 Trying	<b>←</b>				
		← ←	ACM			
	Apply post test routine					
	, tpi, poor tour routino					

TP number	TP_104_014				
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	IAM				
	TMR Speech or 3,1 kHz audio				
SIP Parameter values	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<				
	180 Ringing				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>00000<				
	or				
	InformationTransferCapability>10000<				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000101<				
Comments	Fallback is performed in the SUT.				
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying ←				
	180 Ringing ← ← ACM				
	Apply post test routine				
	LE A L				

TP number	TP_104_015	Reference	7.2.3.1.4.0b			
TSS reference	SIP-ISUP/Basic call/Sending_c	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 a PSTN XML BearerCapability element is present the				
	InformationTransferCapability is set to Speech.					
ISUP Parameter values	ACM: Transmission medium us					
SIP Parameter values	180 Ringing xml version="1.0" encoding= PSTN BearerCapability BCoctet3 CodingStandard 00 InformationTransfer0	<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → 100 Trying ←	<b>→</b>	IAM			
	180 Ringing ←	<b>←</b>	ACM			
		Apply post test routine				

TP number	TP_104_016	Reference	7.2.3.1.4.0b		
TSS reference	SIP-ISUP/Basic call/Sending_o	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	nsmission medium used par	ameter set to 3,1 kHz audio in		
	the ACM, a 180 Ringing is sen	t and a PSTN XML BearerC	apability element is present the		
	InformationTransferCapability	is set to 3,1 kHz audio.			
ISUP Parameter values	ACM: Transmission medium u	sed = 3,1 kHz audio			
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>10000<				
	•••				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	· -	IAM		
	100 Trying ←	•			
	180 Ringing ←	•	- ACM		
		Apply post test routine			

TP number	TP_104_017	Reference	7.2.3.1.4.1.0b			
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/				
Selection criteria	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 Trai	nsmission medium used param	eter and in the ATP a Bearer			
	Capability IE in the ACM, a 180					
	is present the InformationTrans		d in table 6.1.1.4-1.			
ISUP Parameter values	ACM: Transmission medium us	sed, ATP Bearer Capability IE	·			
SIP Parameter values	180 Ringing					
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>				
	PSTN					
	BearerCapability	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	7.2.3.1.4.1.0b		
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 BearerCapa	bility sent in 183		
Test Purpose	Ensure that on receipt of a Tra	nsmission medium used parar	meter 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	used, ATP Bearer Capability IE			
	BCi Called party status	= no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransfer	Capability>ITC_value<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	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_020	Reference		7.2.3.1.4A		
TSS reference	SIP-ISUP/Basic call/Sendi	ng_of_18x/				
Selection criteria						
Test Purpose name	ACM received, P-Earl-Med	lia header present	in 183			
Test Purpose	Ensure that on receipt of a Progress a P-Early-Media			is sent. In the 183 session zation of early media.		
ISUP Parameter values	IAM: 3,1 kHz audio ACM: BCI Called party sta	IAM: 3,1 kHz audio ACM: BCI Called party status indicator = no indication				
SIP Parameter values	183 Session Progress	INVITE: P-Early-Media: supported  183 Session Progress P-Early-Media: < authorization of early media>				
Comments		•				
Message flows	Mg INVITE 183 Session Progress	MG( → ←	<b>→</b>	ISUP IAM ACM(no indication)		
	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 Ba element value 8 sent in a 18	ckward call indicator into PSTI 3	N XML ProgressIndicator	
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	ACM: BCi Called party status oBCI In-band inform is now availab	ation indicator in-band informa	tion or an appropriate pattern	
SIP Parameter values	183 Session Progress xml version="1.0" encodin PSTN ProgressIndicator ProgressOctet4 ProgressDescripti</th <th></th> <th></th>			
Comments				
Message flows		MGCF  →  ←  Apply post test routine	ISUP IAM ACM	

TP number	TP_104_023	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		
	1 sent in a 183				
Test Purpose	Ensure that on receipt of an AC	M and the Backward call indicate	cator ISDN User Part indicator		
	is set to ISDN User Part not us				
	XML ProgressIndicator elemen				
	ISDN: "further progress informations and a second s	ation may be available in-band	l").		
ISUP Parameter values	ACM: BCI ISDN User Part ind	icator = ISDN User Part not us	sed all the way		
	BCi Called party status	indicator = no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>000001<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	183 Session Progress ←	<b>←</b>	ACM		
	_	Apply post test routine			

TP number	TP 104 024	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	· <u> </u>		
Test Purpose name	ACM Mapping of Backward ca 2 sent in a 183	all indicator into PSTN XML Pro	gressIndicator element value	
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 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	BCi ISDN access indic	dicator = ISDN User Part used ator = Terminating access non- indicator = no indication	•	
SIP Parameter values	183 Session Progress xml version="1.0" encoding PSTN ProgressIndicator ProgressOctet4 ProgressDescriptio</th <th></th> <th></th>			
Comments				
Message flows	Mg INVITE  100 Trying  183 Session Progress	<del>-</del>	ISUP IAM ACM	

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	ACM: 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="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4	0000444			
0	ProgressDescription	>0000111<			
Comments			10115		
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	IAM		
	100 Trying ←	_			
	183 Session Progress ←	<b>←</b>	ACM		
		Apply post test routine			

TP number	TP 104 026	Reference	7.2.3.1.4A		
	1		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 optional Bac element value 8 sent in a 183	kward call indicator into PSTN	XML ProgressIndicator		
Test Purpose	information indicator in-band in	Ensure that on receipt of a <b>CPG</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			
ISUP Parameter values	CPG: Event indicator = Progr oBCI In-band informa is now available	tion indicator in-band informat	ion or an appropriate pattern		
SIP Parameter values	183 Session Progress xml version="1.0" encoding PSTN ProgressIndicator ProgressOctet4 ProgressDescriptio</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_c	of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CPG Mapping of Backward cal	l indicator into PSTN XML Pro	gressIndicator element value		
	1 sent in a 183				
Test Purpose	Ensure that on receipt of a CPC				
	is set to ISDN User Part not us				
	XML ProgressIndicator elemen				
	ISDN: "further progress informations and a second s		").		
ISUP Parameter values	<b>CPG:</b> Event indicator = Progre	ess			
	BCI ISDN User Part ind	icator = ISDN User Part not us	sed all the way		
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>000001<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
		<b>←</b>	ACM		
	183 Session Progress ←	<b>←</b>	CPG		
		Apply post test routine			

TP number	TP_104_028	Reference		7.2.3.1.4A
ir number	17_104_020	Reference		Table 7.2.3.1.4A.2
TSS reference		in a of 400/		Table 7.2.3.1.4A.2
	SIP-ISUP/Basic call/Send	ing_or_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name		d call indicator into PSTN	I XML Pro	ogressIndicator element value
	2 sent in a 183			
Test Purpose				ard call indicator ISDN User
	Part indicator is set to ISD			
	Terminating access non-IS			
	ProgressIndicator elemen	t is present the value is s	et to No 2	2 (Destination address is non-
	ISDN).			
ISUP Parameter values	<b>CPG:</b> Event indicator = P	rogress		
	BCI ISDN User Pa	rt indicator = ISDN User I	Part used	all the way
	BCi ISDN access in	ndicator = Terminating ac	cess non	i-ISDN
SIP Parameter values	183 Session Progress			
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th> <th></th>	ding="utf-8"?>		
	PSTN	9		
	ProgressIndicator			
	ProgressOctet4			
		ption>0000010<		
Comments	3			
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
		_	<b>É</b>	ACM
	183 Session Progress	<b>←</b>	È	CPG
	100 Ocssion Flogress	=	couting	OI G
1		Apply post test i	outine	

ence	7.2.3.1.4A
	Table 7.2.3.1.4A.2
tor into PSTN XML Pro	ogressIndicator element value
Ensure that on receipt of a <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 ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7.	
CPG: Event indicator = Progress  BCI ISDN User Part indicator = ISDN User Part used all the way  BCi ISDN access indicator = Terminating access ISDN	
?>	
MGCF	ISUP
→ ← ← Ly nost test routine	IAM ACM CPG
ı	<del>=</del>

TP number	TP_104_030	Reference	7.2.3.1.4A
TSS reference	SIP-ISUP/Basic call/Sending	of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	CPG Mapping of Event information sent in a 183	nation 'in-band info or appropria	te pattern is now available'
Test Purpose		PG and the Event information is available", a 183 Session Proguthorization of early media.	
ISUP Parameter values	CPG: Event indicator = in-ba	and information or an appropriat	te pattern is now available
SIP Parameter values	183 Session Progress P-Early-Media: < authorization of early media>		
Comments		•	
Message flows	Mg	MGCF	ISUP
	INVITE -	<b>→</b>	IAM
		<b>←</b>	ACM
	183 Session Progress	<b>←</b>	CPG
	Apply post test routine		

TP number	TP_104_031	Reference	7.2.3.1.4A
			Table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	CPG Mapping of Backward cal 2 sent in a 183	I indicator into PSTN XML Pro	gressIndicator element value
Test Purpose	Ensure that on receipt of a CPG (in-band information or an appropriate pattern is now available) and the Backward call indicator ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN).		
ISUP Parameter values	CPG: Event indicator = in-band information or an appropriate pattern is now available BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access non-ISDN		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= 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 104 032	Reference	7.2.3.1.4A
	1		Table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_c	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 a 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= PSTN     ProgressIndicator      ProgressOctet4     ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →  183 Session Progress ←	→ ← ←	IAM ACM CPG
		Apply post test routine	

TP number	TP_104_033	Reference	7.2.3.1.4
			Table 7a.0f
TSS reference	SIP-ISUP/Basic call/Send	ding_of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Progress Indi		
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183 Session Progress is sent. The Progress Indicator IE contained in the ACM/CPG ATP parameter is mapped into the PSTN XML element in the 183 Session Progress as indicated in table 6.1.1.4-2.  • Progress Indicator received in an ACM called party status no indication a 183 Session		
	<ul><li>PI_value.</li><li>Progress Indicator re</li></ul>		ntains the ProgressIndicator value ession Progress is sent in the PSTN
ISUP Parameter values	ACM: CASE A BCi	Called party status = no i cator IE Called party status = no i	ndication ATP contains a Progress
SIP Parameter values	183 Session Progress: xml version="1.0" enco PSTN ProgressIndicator ProgressOctet3 CodingStandar Location yyyyy ProgressOctet4	oding="utf-8"?> rd>00<	
Comments			
Message flows	Mg INVITE	MGCF →	ISUP → IAM
	CASE A 183 Session Progress	<b>←</b>	<b>←</b> ACM
	CASE B  183 Session Progress	← Apply post test	← ACM ← CPG

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		atibility received in an ACM/CPG	
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183 Session Progress is sent. The High layer compatibility IE contained in the ACM/CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 183 Session Progress as indicated in table 6.1.1.4-3.  • High layer compatibility received in an ACM called party status no indication, a 183 Session Progress is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value.  • High layer compatibility received in a CPG a 183 Session Progress is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value.		
ISUP Parameter values	ACM: CASE A BCi Cal compat	led party status = no indication ability IE led party status = no indication	
SIP Parameter values	183 Session Progress: xml version="1.0" encoding PSTN HighLayerCompatibility HLOctet3 CodingStandard (Interpretation>100 PresentationMethor HLOctet4 HighLayerCharact	00< <	
Comments	3 1,7 1 11 11 11	<del> </del>	
Message flows	Mg INVITE	MGCF →	ISUP IAM
	The second of th	<del>(</del>	ACM
	CASE B  183 Session Progress	← ← Apply post test routine	ACM CPG

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 Videotext	'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_o	of 18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Low layer compatib	pility received in an ACM/CPG	into 183	
Test Purpose	Ensure that on receipt of an AC			
-	Progress is sent. The Low layer			
	mapped into the LowLayerCon	npatibility PSTN XML element	in the 183 Session Progress	
	as indicated in table 6.1.1.4-4.			
		ceived in an ACM called party s		
		n the PSTN XML element cont	tains the	
	LowLayerCompatibility val			
			Progress is sent in the PSTN	
		LowLayerCompatibility value		
ISUP Parameter values		d party status = no indication A	ATP contains a Low layer	
	compatib			
		d party status = no indication		
SIP Parameter values	CPG: ATP contains a Low lay	er compatibility IE		
SIP Parameter values	183 Session Progress: xml version="1.0" encoding="utf-8"?			
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
		CodingStandard>00<		
	InformationTransferCapability>ITC_value<			
	LLOctet4>			
	TransferMode>00<			
	InformationTransfer	Rate>10000<		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	<b>→</b>	IAM	
	CASE A			
	183 Session Progress ←	<b>←</b>	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	'01000'
ITC_VA_3	7 kHz audio	'10001'

TP number	TP_104_036	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 an ACM/CPG into 1	83	
Test Purpose		CM called party status no indic		
		Capability IE contained in the A		
		ility PSTN XML element in the	183 Session Progress as	
	indicated in table 6.1.1.4-5.			
	Bearer Capability received in an ACM called party status subscriber free 183 Session			
		STN XML element contains the	BearerCapability value	
	ITC_value.			
		d in a CPG a 183 Session Prog	ress is sent in the PSTN XML	
		rerCapability value ITC_value.		
ISUP Parameter values		ed party status = no indication	ATP contains a Bearer	
	Capabilit			
		ed party status = no indication		
SIP Parameter values	CPG: ATP contains a Bearer	Capability IE		
SIP Parameter values	183 Session Progress:			
	PSTN	xml version="1.0" encoding="utf-8"?		
	BearerCapability			
		BCoctet3		
		CodingStandard>00<		
		rCapability>ITC_value<		
	BCoctet4			
	TransferMode>00<			
	InformationTransferRate>10000<			
	BCoctet5>			
	Layer1Identification>01<			
	UserInfoLayer1Pro	tocol>00011<		
Comments		1100	10115	
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	IAM	
	0405.4			
	CASE A		4.014	
	183 Session Progress	<del>-</del>	ACM	
	CASE D			
	CASE B	•	ACM	
	102 Cassian Dragrans		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_038	Reference	7.	2.3.1.4B	
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/			
Selection criteria					
Test Purpose name	ACM containing CDIV informat P-Early-Media present	ion and oBCi inband i	nf available,	, a 181 is sent a	
Test Purpose	Ensure that on receipt of an 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>	→	IAM	
	100 Trying	<b>←</b>			
	181 Call Is Being Forwarded	<b>←</b>	<b>←</b>	ACM	
		Apply post test ro	utine		

TP number	TP_104_040	Reference	7.	.2.3.1.4B		
TSS reference	SIP-ISUP/Basic call/Sending	_of_18x/	•			
Selection criteria						
Test Purpose name	ACM containing CDIV information P-Early-Media present	ation and oBCi in	band inf available	, a 181 is sent a		
Test Purpose	number, Call diversion inform optional backward call indicat	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 modis.				
ISUP Parameter values	CPG: Event Indicator set to I Redirection number Call diversion informat Generic notification = ' oBCI In-band informatis now available	ion Call is diverted' ation indicator in-	band information (	or an appropriate pattern		
SIP Parameter values	INVITE: Supported: 100rel P-Early-Media: < authorization of early media> 181 Call Is Being Forwarded P-Early-Media: <indicating authorization="" early="" media="" of=""></indicating>					
Comments			•			
Message flows	Mg		MGCF	ISUP		
_	INVITE 180/183 181 Call Is Being Forwarded	→ ← ← Apply post t	→ ← est routine	IAM ACM CPG		

TP number	TP_104_041	Reference	7.2.3.1.4D			
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/				
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Mapping of Cause parameter in	ACM into Reason header in	183			
Test Purpose	Ensure that when a Cause indi					
	value is mapped into a Reason	header in the sent 183 Session	on Progress.			
ISUP Parameter values	ACM					
	Cause indicators					
	Cause value					
	Derived from the Re	ason header				
SIP Parameter values	180					
	Reason: Q850, cause= <any value=""></any>					
Comments						
Message flows	Mg	MGCF	ISUP			
_	INVITE	<b>→</b>	→ IAM			
	180 Ringing	←	<b>←</b> ACM			
		Apply post test routine				

TP number	TP_104_042	Reference	7.2.3.1.4D
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/	
Selection criteria	Mapping of Cause parameter in	n ACM or CPG into Reason he	eader in 183 is supported
Test Purpose name	Mapping of Cause parameter in	n CPG into Reason header in	183
Test Purpose	Ensure that when a Cause indivalue is mapped into a Reason		
ISUP Parameter values	CPG Cause indicators Cause value Derived from the Re	ason header	
SIP Parameter values	183 Reason: Q850, cause= <an< th=""><th></th><th></th></an<>		
Comments	. todos.n good, oddos san.	,	
Message flows	Mg INVITE 180 Ringing 183 Session Progress	<b>←</b>	ISUP  → IAM  ← ACM ← CPG

## 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/Se	ending_of_200_OK/			
Selection criteria					
Test Purpose name	An ANM is received a 2	200 OK is sent			
Test Purpose	Ensure that on receipt	of an ANM the SUT sends	a 200 OK IN	VITE.	
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>	<b>←</b>	ACM	
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b>	ANM	
	Apply post test routine				

TP number	TP_105_002	Reference	7.2.3.1.5		
TSS reference	SIP-ISUP/Basic call/Sending_o	of_200_OK/			
Selection criteria					
Test Purpose name	A CON is received a 200 OK is	s sent			
Test Purpose	Ensure that on receipt of a CO	N the SUT sends a 200 OK IN	IVITE.		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	· -	IAM		
	100 Trying ←	•			
	200 OK (INVITE)	· <b>←</b>	CON		
	ACK -	•			
	Apply post test routine				

TP number	TP_105_003	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	Progress indicator received in	ANM/CON is mapped into PS	TN XML ProgressIndicator			
Test Purpose		NM/CON and an ATP containir				
	to value PI_value a, 200 OK I	NVITE is sent. the PSTN XML F	ProgressIndicator value is set			
	as indicated in table 6.1.1.5-1					
ISUP Parameter values	ANM/CON: ATP contains a	Progress Indicator IE value PI_	_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" encoding</th <th>j="utf-8"?&gt;</th> <th></th>	j="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>0	0<				
	Location <yyyy></yyyy>	Location <yyyy></yyyy>				
	ProgressOctet4					
	ProgressDescription> <b>PI_value</b> <					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	IAM			
	CASE A					
		<b>-</b>	A C N 4			
	180 Ringing ← ← ACM					
	200 OK (INVITE)	<b>+</b>	ANM			
	ACK →					
	CASE B					
	200 OK (INVITE)	÷	CON			
	,	•				
		Apply post test routine				
		Procession				

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	nding_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name		received in ANM/CON is a	mapped into	PSTN XML		
	HighLayerCompatibility					
Test Purpose				ng a High layer compatibility IE		
			. the PSTN	XML HighLayerCompatibility		
	value is set as indicated					
ISUP Parameter values		tains a High layer compatil	oility IE valu	ie HLC_value		
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" en</th <th>coding="utf-8"?&gt;</th> <th></th> <th></th>	coding="utf-8"?>				
	PSTN					
	HighLayerCompatib	oility				
	HLOctet3					
	CodingStand					
	Interpretation	n>100< Method>01<				
		iwetnod>01<				
	HLOctet4	naracteristics>HLC_value	_			
Comments	TilgiiLayeror	laracteristics/IIEC_value	`			
Message flows	Mg	MGCF		ISUP		
meesage news	INVITE	→	<b>→</b>	IAM		
		-	-	n uvi		
	CASE A					
	180 Ringing ← ← ACM					
	200 OK (INVITE) ← ANM					
	ACK →					
	CASE B					
	200 OK (INVITE)	<b>←</b>	<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'

TSS reference SIP-ISUP/Basic call/Sending_of_200_OK/ Selection criteria PICS 6.2.1/5  Test Purpose name Low layer compatibility received in ANM/CON is mapped into PSTN XML Low layer compatibility received in ANM/CON and an ATP containing a Low layer compatibility value is set to value ITC_value, a 200 OK INVITE is sent. the PSTN XML LowLayerCompatibility value is set as indicated in table 6.1.1.5-3.  ISUP Parameter values SIP Parameter values SIP Parameter values SIP Parameter values Cook INVITE:	TP number	TP_105_005	Refer	ence		7.2.3.1.5	
Pics 6.2.1/5						Table 7.2.3.1.5.1	
Test Purpose name Low layer compatibility received in ANM/CON is mapped into PSTN XML LowLayerCompatibility  Ensure that on receipt of an ANM/CON and an ATP containing a Low layer compatibility reset to value ITC_value, a 200 OK INVITE is sent. the PSTN XML LowLayerCompatibility value is set as indicated in table 6.1.1.5-3.  ISUP Parameter values  SIP Parameter values  200 OK INVITE: <pre> </pre> <pre> <pre> <pre></pre></pre></pre>	TSS reference		ending_of_200_	_OK/			
LowLayerCompatibility   Ensure that on receipt of an ANM/CON and an ATP containing a Low layer compatibility   Eset to value   TC_value, a 200 OK   NVITE   is sent. the PSTN XML LowLayerCompatibility   value is set as indicated in table 6.1.1.5-3.    SUP Parameter values   ANM/CON:   ATP contains a Low layer compatibility   E value   ITC_value   200 OK   NVITE:   xml version="1.0" encoding="utf-8"?   PSTN   LowLayerCompatibility>   LLOctet3>   CodingStandard>00<   InformationTransferCapability> ITC_value<  LLOctet4>   TransferMode>00<   InformationTransferRate>10000<   LLOctet5>   Layer1   Identification>01	Selection criteria						
Test Purpose  Ensure that on receipt of an ANM/CON and an ATP containing a Low layer compatibility IE set to value ITC_value, a 2000 OK INVITE is sent, the PSTN XML LowLayerCompatibility value is set as indicated in table 6.1.1.5-3.  ISUP Parameter values  SIP Parameter values  ANM/CON: ATP contains a Low layer compatibility IE value ITC_value  200 OK INVITE:  - ?xml version="1.0" encoding="utf-8"?> PSTN  LowLayerCompatibility>  LLOctet3>  CodingStandard>00< InformationTransferCapability>ITC_value<  LLOctet4>  TransferMode>00< InformationTransferRate>10000<  LLOctet5>  Layer1Identification>01 UserInfoLayer1Protocol ITC_value When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP  INVITE</th <th>Test Purpose name</th> <th>, , ,</th> <th></th> <th>IM/CON is map</th> <th>ped into</th> <th>PSTN XML</th>	Test Purpose name	, , ,		IM/CON is map	ped into	PSTN XML	
set to value ITC_value, a 200 OK INVITE is sent. the PSTN XML LowLayerCompatibility value is set as indicated in table 6.1.1.5-3.  ISUP Parameter values  APP contains a Low layer compatibility IE value ITC_value  200 OK INVITE: <pre> </pre> <pre> 200 OK INVITE: <pre> <pre> <pre> <pre> 200 OK INVITE: <pre> <pre> <pre> <pre> 200 OK INVITE: </pre> <pre> 200 OK INVITE: </pre> <pre> 200 OK INVITE: </pre> <pre> <pre> 200 OK INVITE: </pre> <pre> 200 OK INVITE: </pre> <pre> 200 OK INVITE: </pre> <pre> 200 OK INVITE </pre> <pre> 200 OK INVITE </pre> <pre> 200 OK INVITE </pre> <pre> 200 OK (INVITE)</pre> <pre> 4 ANM</pre> <pre> 4 ANM</pre> <pre> CASE B</pre> <pre> 200 OK (INVITE)</pre> <pre> 4 CON</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>							
Value is set as indicated in table 6.1.1.5-3.   ISUP Parameter values   ANM/CON: ATP contains a Low layer compatibility IE value ITC_value	Test Purpose						
SUP Parameter values   ANM/CON: ATP contains a Low layer compatibility IE value ITC_value   200 OK INVITE:					PSTN X	KML LowLayerCompatibility	
SIP Parameter values  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000< LLOctet5> Layer1Identification>01 UserInfoLayer1Protocol ITC_value Comments  When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP  INVITE</th <th></th> <th>value is set as indicate</th> <th>d in table 6.1.1</th> <th>.5-3.</th> <th></th> <th></th>		value is set as indicate	d in table 6.1.1	.5-3.			
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>			itains a Low lay	er compatibility	/ IE value	e ITC_value	
PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000< LLOctet5> Layer1Identification>01 UserInfoLayer1Protocol ITC_value Comments  When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP INVITE  MGCF ISUP INVITE  ACM  ACM  ACM  ACM  ACM  ACM  CASE B  200 OK (INVITE)  COM  COMMENT  COMM</th <th>SIP Parameter values</th> <th></th> <th></th> <th>_</th> <th></th> <th></th>	SIP Parameter values			_			
LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000< LLCOctet5> Layer1Identification>01 UserInfoLayer1Protocol*ITC_value</  Comments  When the 'XML UserInfoLayer1Protocol* element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP INVITE</th <th></th> <th></th> <th>ncoding="utf-8"</th> <th>?&gt;</th> <th></th> <th></th>			ncoding="utf-8"	?>			
LLÖctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000< LLOctet5> Layer1Identification>01 UserInfoLayer1Protocol ITC_value Comments  When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP INVITE</th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
CodingStandard>00<			ollity>				
InformationTransferCapability>ITC_value < LLOctet4> TransferMode>00 < InformationTransferRate>10000 < LLOctet5> Layer1Identification>01 UserInfoLayer1Protocol ITC_value Comments  When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP INVITE → IAM  CASE A  180 Ringing ← ← ACM  200 OK (INVITE) ← ANM  ACK → CASE B  200 OK (INVITE) ← CON</th <th></th> <th></th> <th>مام سمار ۲۰۰</th> <th></th> <th></th> <th></th>			مام سمار ۲۰۰				
LLOctet4>				lity's ITC value	_		
TransferMode>00<			папѕієгСараві	my>11C_value	<		
InformationTransferRate>10000< LLOctet5> Layer1Identification>01 UserInfoLayer1Protocol>ITC_value   Comments When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent   Message flows Mg MGCF ISUP   INVITE → → ACM   CASE A 180 Ringing ← ← ACM   200 OK (INVITE) ← ANM   ACK → CASE B 200 OK (INVITE) ← CON			40>00<				
LLOctet5>     Layer1Identification>01     Comments  When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Mg  Mg  MGCF  ISUP  INVITE  ACM  CASE A  180 Ringing  CONC (INVITE)  CASE B  200 OK (INVITE)  CASE B  CON							
Layer1Identification>01 UserInfoLayer1Protocol>ITC_value When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg MGCF ISUP INVITE → IAM  CASE A 180 Ringing ← ← ACM  200 OK (INVITE) ← ANM ACK →  CASE B 200 OK (INVITE) ← CON							
UserInfoLayer1Protocol>ITC_value Comments  When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent  Message flows  Mg  MGCF  ISUP  INVITE  ACM  CASE A  180 Ringing  CASE A  200 OK (INVITE)  CASE B  200 OK (INVITE)  CASE B  200 OK (INVITE)  CASE B</th <th></th> <th colspan="5"></th>							
Comments       When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent         Message flows       Mg       MGCF       ISUP         INVITE       →       IAM         CASE A       +       ACM         180 Ringing       ←       ACM         200 OK (INVITE)       ←       ANM         ACK       →         CASE B       200 OK (INVITE)       ←       CON							
Absent   Mg	Comments				absent. th	he entire 'LLOctet5' element is	
INVITE → IAM  CASE A  180 Ringing ← ACM  200 OK (INVITE) ← ANM  ACK → CASE B  200 OK (INVITE) ← CON					,		
INVITE → IAM  CASE A  180 Ringing ← ACM  200 OK (INVITE) ← ANM  ACK → CASE B  200 OK (INVITE) ← CON	Message flows	Mg		MGCF		ISUP	
180 Ringing ← ← ACM  200 OK (INVITE) ← ← ANM  ACK → CASE B  200 OK (INVITE) ← ← CON		_	<b>→</b>		<b>→</b>		
180 Ringing ← ← ACM  200 OK (INVITE) ← ← ANM  ACK → CASE B  200 OK (INVITE) ← ← CON							
200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← CON		CASE A					
200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← CON		180 Ringing	<b>←</b>		+	ACM	
ACK  CASE B  200 OK (INVITE) ← CON						_	
ACK  CASE B  200 OK (INVITE) ← CON		200 OK (INVITE) ← ← ANM					
CASE B 200 OK (INVITE) ← CON							
200 OK (INVITE) ← CON							
		CASE B					
			<b>←</b>		<del>(</del>	CON	
in the second							
Apply post test routine			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'

Selection criteriaPICS 6.2.1/5Test Purpose nameBearer Capability received in ANM/CON is mapped into PSTN XML BearerCapability							
Test Purpose name Bearer Capability received in ANM/CON is mapped into PSTN XML BearerCapab							
	PICS 6.2.1/5						
Tast Purpose  Ensure that on receipt of an ANM/CON and an ATP containing a Poorer Canability	Bearer Capability received in ANM/CON is mapped into PSTN XML BearerCapability						
person and an ATF containing a bearer capability	Ensure that on receipt of an ANM/CON and an ATP containing a Bearer Capability IE set						
to value ITC_value, a 200 OK INVITE is sent. the PSTN XML BearerCapability va	to value ITC_value, a 200 OK INVITE is sent. the PSTN XML BearerCapability value is set						
as indicated in table 6.1.1.5-4.							
ISUP Parameter values ANM/CON: ATP contains a Bearer Capability IE value ITC_value							
SIP Parameter values 200 OK INVITE:							
xml version="1.0" encoding="utf-8"?							
PSTN							
BearerCapability							
BCoctet3							
CodingStandard>00<							
InformationTransferCapability>ITC_value<							
BCoctet4							
TransferMode>00<							
InformationTransferRate>10000<							
	BCoctet5>						
	Layer1Identification>01<						
	UserInfoLayer1Protocol> <b>ITC_value</b> </th						
Comments							
Message flows Mg MGCF ISUP							
INVITE → JAM							
CASE A							
180 Ringing ← ← ACM							
200 OK (INVITE) ← ANM							
ACK →							
CASE B							
200 OK (INVITE) ← CON							
ACK →							

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

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

TP number	TP_105_007	Reference	7.2.3.1.5				
			Table 7.2.3.1.5.2				
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 an ANM/CON and the backward call indicator is set to ISDN Use						
	Part not used all the way, a 2						
		d-to-end ISDN: further progres	s information may be available				
	in-band).						
ISUP Parameter values		Part indicator = ISDN User Par	t not used all the way				
SIP Parameter values	200 OK INVITE						
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>					
	PSTN						
	ProgressIndicator						
	Dragge of Octob						
	ProgressOctet4 ProgressDescription	> 000001 <					
Comments	1 TogressDescription	12000001<					
Message flows	Mg	MGCF	ISUP				
Message nows	INVITE →		IAM				
		•	D divi				
	CASE A						
	180 Ringing	<b>←</b>	ACM				
Too Kinging & ACM							
	200 OK (INVITE) ← ANM ACK						
	CASE B						
	200 OK (INVITE)	<b>←</b>	CON				
	ACK →		33.1				
	[ · · · · ·						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Apply post test routine					

TP number	TP_105_008	Reference	7.2.3.1.5				
			Table 7.2.3.1.5.2				
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 2						
Test Purpose	Ensure that on receipt of an ANM/CON and the backward call indicator is set to ISDN User						
	Part used all the way and Terminating access non-ISDN, a 200 OK INVITE is sent and						
		ator value is set to 2 (Destination					
ISUP Parameter values		Part indicator = ISDN User Part					
OID D		dicator = Terminating access no	on-ISDN				
SIP Parameter values	200 OK INVITE	II. 14 0II.					
	<pre><?xml version="1.0" encoding= PSTN</pre></pre>	= uti-8 ?>					
	ProgressIndicator						
	1 Togressmalcator						
	ProgressOctet4						
	ProgressDescription	n>000010<					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE ->	· -	IAM				
	CASE A						
	180 Ringing ←	•	ACM				
	200 OK (INVITE)		ANM				
	ACK →	•					
	CASE B						
	200 OK (INVITE)	· <b>←</b>	CON				
	ACK →						
	Apply post test routine						
	· ·						

TP number	TP_105_009	Reference		7.2.3.1.5	5		
				Table 7.	2.3.1.5.2		
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 7						
Test Purpose	Ensure that on receipt of an ANM/CON and the backward call indicator is set to ISD						
	Part used all the way and		<b>N</b> , a 20	0 OK INVI	TE is sent and the		
	PSTN XML ProgressIndicat						
ISUP Parameter values	ANM/CON: BCi ISDN Use				the way		
		indicator = Terminating a	ccess IS	SDN			
SIP Parameter values	200 OK INVITE						
	xml version="1.0" encodi</th <th>ng="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	ng="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4 ProgressDescription>0000111<						
Comments	ProgressDescript	10H> <b>0000111</b> <					
	Ma	MGCF			ISUP		
Message flows	Mg  INVITE	→	<b>→</b>	IAM	1507		
	INVITE	7	7	IAW			
	CASE A						
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	100 Kinging		•	AOW			
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM			
	ACK	<b>→</b>	•	AINIVI			
	AOR	-					
	CASE B						
	200 OK (INVITE)	<b>←</b>	<b>←</b>	CON			
	ACK	<b>→</b>	•	3011			
	Apply post test routine						
		Apply post test ro	utine				

TP number	TD 105 010		Reference		72241	<u> </u>	
i P number	TP_105_010		Reference		7.2.3.1.		
T00 (	OLD TOTAL	. "'(0 "	( 000 01//		rable 7.	2.3.1.5.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8						
Test Purpose	Ensure that on receipt of an ANM/CON and the optional backward call indicator is						
						OK INVITE is sent	
			dicator value is se	t to 8 (In-ba	nd inform	ation or appropriate	
	pattern is now						
ISUP Parameter values	ANM/CON:		rd call indicator In-				
		in-band informat	ion or an appropria	ate pattern is	s now ava	ilable	
SIP Parameter values	200 OK INVIT	_					
	xml version</th <th>="1.0" encoding=</th> <th>:"utf-8"?&gt;</th> <th></th> <th></th> <th></th>	="1.0" encoding=	:"utf-8"?>				
	PSTN						
	Progresslr	ndicator					
	Progre	ssOctet4					
	Pro	gressDescription	>0001000<				
Comments							
Message flows	M	g	MGCF			ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM		
	CASE A						
	180 Ringing	+		<b>←</b>	ACM		
	200 OK (INVI	TE) ←		<b>←</b>	ANM		
	ACK	· _ , →		•	7 (1 <b>4</b> 1V)		
	7.01	•					
	CASE B						
	200 OK (INVI	TE) ←		<b>←</b>	CON		
	,	) <del>-</del>		~	CON		
	ACK	7		t routing			
			Apply post tes	troutine			

TP number	TP_105_011	Refe	erence		7.2.3.1.5		
T00 (		" ( 00	0.01//		Table 7.	2.3.1.5.1	
TSS reference	SIP-ISUP/Basic call/S	ending_of_20	0_OK/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Receipt of TMU speech in ANM/CON, no BC present in ATP						
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to <b>speech</b> in the						
	ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is present						
ICUD Devementar values	the InformationTransferCapability is set to <b>Speech.</b>						
ISUP Parameter values							
	TMR = second InformationTransferCapability						
	TMR prime = first InformationTransferCapability USI = first BearerCapability						
	USI prime = second B		hv				
	ANM/CON: Transm						
SIP Parameter values	INVITE: PSTN XML M		r docd – opeceri				
	xml version="1.0" e</th <th></th> <th>3"?&gt;</th> <th></th> <th></th> <th></th>		3"?>				
	PSTN	noounig— un v					
	BearerCapability						
	BCoctet3						
	CodingStar						
	Information	TransferCapa	bility> <b>00000</b> <				
	BearerCapability						
	BCoctet3						
	CodingStar	idard>00< TransferCapa	hilitar 10001 a				
	Information	rransierCapa	DIIITY>10001<				
	••••						
	200 OK INVITE						
	xml version="1.0" e</th <th>ncodina="utf-</th> <th>3"?&gt;</th> <th></th> <th></th> <th></th>	ncodina="utf-	3"?>				
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStandard>00<						
	Information	TransferCapa	bility>00000<				
Comments							
Message flows	Mg	_	MGCF	_		ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM		
	CASE A	-		_			
	180 Ringing	<del>-</del>		+	ACM		
	000 OK (INIVITE)			,	0 N I N 4		
	200 OK (INVITE)	<del>(</del>		+	ANM		
	ACK →						
	CASE B						
		_		_	COM		
	200 OK (INVITE)	<b>←</b> →		<b>←</b>	CON		
	ACK	=	nly nost toot ==	tino			
	ply post test ro	outine					

TP number	TP_105_012	Referenc	е	7.2.3.1.5			
				Table 7.2.3.1.5.1			
TSS reference	SIP-ISUP/Basic call/Se	ending_of_200_OK	7				
Selection criteria		PICS 6.2.1/5					
Test Purpose name	Receipt of TMU 3,1 kH						
Test Purpose				meter set to 3,1 kHz audio in			
				searerCapability element is			
	present the Information	nTransferCapability	is set to 3,1 kHz a	udio.			
ISUP Parameter values	IAM:						
		MR = second InformationTransferCapability					
	TMR prime = first Infor		oability				
	USI = first BearerCapa						
	USI prime = second Be						
	ANM/CON: Transmi		d = 3,1 kHz audio				
SIP Parameter values	INVITE: PSTN XML M						
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>					
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStan						
	Information <sup>-</sup>	TransferCapability>	·10000<				
	BearerCapability						
	BCoctet3						
	CodingStan						
	Information <sup>-</sup>	TransferCapability>	·10001<				
	200 OK INVITE						
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>					
	PSTN						
	BearerCapability						
	BCoctet3	-ll 00					
		CodingStandard>00< InformationTransferCapability>10000<					
	information	ransierCapability>	10000<				
Comments							
Message flows	Mg		MGCF	ISUP			
wessage nows	_	<b>→</b>	WIGCF →				
	INVITE	7	7	IAM			
	CASE A						
		•		A O N A			
	180 Ringing	<del>&lt;</del>	~	ACM			
	000 OK (INI) (ITE)	•		0 b lb 4			
	200 OK (INVITE)	<del>(</del>	+	ANM			
	ACK	<b>→</b>					
	2.27						
	CASE B	_	=				
	200 OK (INVITE)	<del>(</del>	<b>←</b>	CON			
	ACK	<b>→</b>					
		Apply p	ost test routine				

TP number	TP_105_013	Refe	rence	7.	.2.3.1.5	
TSS reference	SIP-ISUP/Basic call/S	ending_of_200	)_OK/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Receipt of TMU, BC p	Receipt of TMU, BC present in ATP PSTN XML BearerCapability sent in 200 OK				
Test Purpose	Capability IE in the AN	M/CON, a 200	OK INVITE is	sent and a F	er and in the ATP a Bearer PSTN XML pability is set as indicated in	
ISUP Parameter values	IAM:  TMR = second InformationTransferCapability  TMR prime = first InformationTransferCapability  USI = first BearerCapability  USI prime = second BearerCapability  ANM/CON: Transmission medium used, ATP Bearer Capability 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> 1/2	ISUP AM	
	180 Ringing	<b>←</b>		<b>←</b> A	CM	
	200 OK (INVITE) ACK	<b>←</b> →		<b>←</b> A	NM	
	CASE B 200 OK (INVITE) ACK	<b>←</b> →	nly post tost as		ON	
		Aþ	ply post test ro	unie		

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"

TP number	TP_105_014	Referen	ice	7.2	2.3.1.5
TSS reference	SIP-ISUP/Basic call/Send	ling_of_200_C	K/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Fall back does not occur,	no TMU parar	neter received		
Test Purpose	Ensure when the sent IAN				
	64 kBit/s preferred and a				
	INVITE is sent. The Beare				
	PSTN XML BearerCapab			dec in th	ne SDP answer is set to
	the value of the first state	d codec in the	SDP offer.		
ISUP Parameter values	IAM:				
	TMR = second Informatio	nTransferCapa	ability		
	TMR prime = first Informa		apability		
	USI = first BearerCapabili				
	USI prime = second Bear	erCapability			1016
OID D	ANM/CON: ATP Bearer	r Capability IE:	= Unrestricted dig	itai int.	vv/tone/ann
SIP Parameter values	200 OK INVITE	مانم مدال بلا ۱۱۰۰			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN BassarCanability				
	BearerCapability BCoctet3				
		·d>00 <			
	CodingStandard>00< InformationTransferCapability> <b>00110</b> <				
	iniormation transfer capability> <b>00 f 10</b> <				
	SDP				
	m=audio <port #=""> RTP/AVP <dynamic load="" pay="" type=""></dynamic></port>				
	a=rtpmap: <dynamic load="" pay="" type=""> CLEARMODE/8000</dynamic>				
Comments		.,,			
Message flows	Mg		MGCF		ISUP
	INVITE	<b>→</b>		<b>→</b> IA	M
	CASE A				
	180 Ringing	<b>←</b>		<b>←</b> AC	CM
	1001gg				
	200 OK (INVITE)	<b>←</b>		<b>←</b> AN	MM
	ACK	<b>→</b>			
	CASE B				
	200 OK (INVITE)	<b>←</b>		<b>←</b> co	NC
	ACK	<b>→</b>		,	
			post test routine	•	

# 6.1.1.6 Sending of the Release message (REL)

TP number	TP_106_001	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending_c	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria						
Test Purpose name	BYE received in confirmed dial	ogue no Reason header includ	ded, a REL is sent			
Test Purpose	Ensure that on receipt of a BYE	request in confirmed dialogue	e and no Reason header is			
	present, a REL message is ser	nt. The cause indicator is set to	No. 16 (normal clearing), the			
	location is set to 'network beyo	nd interworking point'.				
ISUP Parameter values	<b>REL:</b> Cause indicator Cause					
	Location	= network beyond interworking	g point			
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	100 Trying ←					
	180 Ringing ←	<b>←</b>	ACM			
	200 OK (INVITE)	<b>+</b>	ANM			
	ACK →					
	BYE →	<b>→</b>	REL			
	200 OK (BYE) <b>←</b>	+	RLC			

TP number	TP_106_002	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending_c	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria						
Test Purpose name	BYE received in confirmed dial	ogue Reason header included	, a REL is sent			
Test Purpose	Ensure that on receipt of a BYI	request in confirmed dialogu	e and a Reason header is			
	present, a REL message is ser	nt. The cause indicator is set to	the Reason header cause			
	value, the location is set to 'net	work beyond interworking poir	nt'.			
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value				
	Location	= network beyond interworkin	g point			
SIP Parameter values	BYE: Reason: Q.850; cause=	BYE: Reason: Q.850; cause= Cause value				
Comments	The Cause_value is a PIXIT p	arameter.				
Message flows	Mg	MGCF	ISUP			
_	INVITE ->	<b>→</b>	IAM			
	100 Trying ←					
	180 Ringing ←	<b>←</b>	ACM			
	200 OK (INVITE) ←	<b>+</b>	ANM			
	ACK →					
	700					
	BYE →	<b>→</b>	REL			
	200 OK (BYE) ←	<b>←</b>	RLC			

TP number	TP_106_003	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sending_c	f_REL/			
Selection criteria					
Test Purpose name	BYE received in early dialogue	no Reason header included, a	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 INVITE → 18x ← BYE → 200 OK (BYE) ← 487 Request Terminated ← ACK →	MGCF  →  ←  →	ISUP IAM ACM REL RLC		

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 dialogu	e Reason header included, a R	EL is sent		
Test Purpose		E request in early dialogue and			
	a REL message is sent. The	cause indicator is set to the Rea	ason header cause value, the		
	location is set to 'network bey	ond interworking point'.			
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value			
	Location	n = network beyond interworking	g 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		
	18x	÷ +	ACM		
	BYE → REL				
	200 OK (BYE) ← RLC				
	487 Request Terminated				
	•	•			

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	ınspecifie	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)	<b>←</b>	<b>←</b>	RLC	
	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 of	lialogue Reason header include	ed, a REL is sent			
Test Purpose	present, a REL message is	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 Cau	se Value = Cause_value				
	Locati	on = network beyond interwork	ring point			
SIP Parameter values	CANCEL: Reason: Q.850; c	ause= Cause_value				
Comments	The Cause_value is a PIXI	Γ parameter,				
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b> →	IAM			
	18x	<del>-</del> +	- 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	SIP-ISUP/Basic call/Send	SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5					
Test Purpose name	BYE received in confirmed	d dialogue PSTN XN	ML HighLayerC	ompatibility present, a REL is			
	sent containing a High lay						
Test Purpose	Ensure that on receipt of a						
				P is present containing a High			
	layer compatibility IE. The						
ISUP Parameter values	REL: ATP High layer cor	mpatibility High Laye	er Characteristi	c = HLC_value			
SIP Parameter values	BYE:						
	xml version="1.0" encod</th <th>ding="utf-8"?&gt;</th> <th></th> <th></th>	ding="utf-8"?>					
	PSTN						
	HighLayerCompatibility	У					
	HLOctet3	-1.00					
	CodingStandar						
	Interpretation>1						
	HLOctet4	PresentationMethod>01<					
		HLOctet4  HighLayerCharacteristics> <b>HLC_value</b> <					
Comments	Trightedy of Orland Controllog Pile - Value V						
Message flows	Mg	MG	CF	ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying	<b>←</b>					
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
		7.5					
	200 OK (INVITE)	200 OK (INVITE) ← ← ANM					
	ACK '	<b>→</b>					
	BYE	<b>→</b>	<b>→</b>	REL			
	200 OK (BYE)	<b>←</b>	<b>←</b>	RLC			

TP number	TP_106_008	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sendin	g_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name		BYE received in early dialogue PSTN XML HighLayerCompatibility present, a REL is sent					
	containing a High layer com						
Test Purpose		BYE request in early dialogue a					
			TP is present containing a High				
		alue is mapped as indicated in					
ISUP Parameter values	•	patibility High Layer Characteris	stic = HLC_value				
SIP Parameter values	BYE:						
	xml version="1.0" encodi</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>					
	PSTN						
	HighLayerCompatibility						
	HLOctet3						
	CodingStandard>00<						
	Interpretation>100<						
	PresentationMethod>01<						
	HLOctet4						
	HighLayerChara	cteristics> <b>HLC_value</b> <					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	IAM				
	BYE	<b>→</b>	1,				
	200 OK (BYE)	<b>+</b>	- RLC				
	487 Request Terminated	<b>←</b>					
	ACK	<b>→</b>					

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					
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	HighLayerCompatibility				
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<	•				
	PresentationMethod	<del>l</del> >01<				
	HLOctet4					
	HighLayerCharacte	ristics>HLC_value<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE ->	•	• IAM			
	CANCEL -	• -	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'
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_106_010	Reference		7.2.3.1.7	·		
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5	-					
Test Purpose name	BYE received in confir	rmed dialogue PSTN XML Lo	wLayerCo	mpatibility	present, a REL is		
_	sent containing a Low	layer compatibility IE	•				
Test Purpose		of a BYE request in confirm	ed dialogu	e and a PS	STN XML		
_	LowLayerCompatibility	y is present, a REL is sent ar	nd an ATP	is present	containing a Low		
	layer compatibility IE.	The value is mapped as indi-	cated in ta	ble 6.1.1.6	-2.		
ISUP Parameter values	REL: ATP Low layer	compatibility Information Tra	nsfer Cap	ability = IT	C_value		
SIP Parameter values	CANCEL						
	xml version="1.0" e</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	ncoding="utf-8"?>					
	PSTN						
	LowLayerCompati	bility>					
	LLOctet3>						
		CodingStandard>00<					
	InformationTransferCapability>ITC_value<						
Comments							
Message flows	Mg	MGCF			ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying	100 Trying ←					
	180 Ringing ← ← ACM						
	200 OK (INVITE)	200 OK (INVITE) ← ANM					
	ACK	<b>→</b>					
	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	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in early dialogous containing a Low layer comp		npatibility present, a REL is sent			
Test Purpose	Ensure that on receipt of a B	YE request in early dialogue sent, a REL is sent and an A	ATP is present containing a Low			
ISUP Parameter values	REL: ATP Low layer compa	tibility Information Transfer (	Capability = ITC_value			
SIP Parameter values	CANCEL xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value<					
Comments						
Message flows	Mg INVITE	MGCF →	ISUP → IAM			
	200 OK (BYE) 487 Request Terminated		→ REL ← RLC			

TP number	TP_106_012	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending	g_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	CANCEL received in early d	ialogue PSTN XML LowLayer	Compatibility present, a REL is			
	sent containing a Low layer	compatibility IE				
Test Purpose	Ensure that on receipt of a C	CANCEL request in early dialo	gue and a PSTN XML			
	LowLayerCompatibility is pre	esent, a REL is sent and an A	TP is present containing a Low			
	layer compatibility IE. The va	alue is mapped as indicated in	table 6.1.1.6-2.			
ISUP Parameter values	REL: ATP Low layer comp	atibility Information Transfer C	capability = ITC_value			
SIP Parameter values	CANCEL					
	xml version="1.0" encodir</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>				
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00<					
	InformationTrans	InformationTransferCapability>ITC_value<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	<b>→</b> IAM			
	CANCEL	CANCEL → REL				
	200 OK (CANCEL)	<b>←</b>	F 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	'01000'
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		
			1.2.3.1.0		
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 REI	message in the confirmed di	alogue, a BYE is sent. The		
	Reason header is present and	the cause value is set to the re	eceived cause value in the		
	REL Cause indicator.				
ISUP Parameter values	REL: 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 →	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ←	<b>←</b>	ACM		
	3 3				
	200 OK (INVITE)	<b>←</b>	ANM		
	ACK →		,		
	BYE ←	<b>←</b>	REL		
	200 OK (BYE) →	<del>-</del>	RLC		

TP number	TP_107_002	Reference	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_or	_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	Value = Cause_value			
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; c	ause = 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	3		
TSS reference	SIP-ISUP/Basic call/Rec	eipt_of_REL/		· ·			
Selection criteria		•					
Test Purpose name	A REL is received after a	an early dialogue is establis	shed (180	), a final re	esponse 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 s REL: Cause indicator C	status = subscriber free Cause Value <b>= Cause_val</b> u	ıe				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.	850; cause = Cause_value	е				
Comments							
Message flows	Mg INVITE 180 Ringing SIP_final_Response ACK	MGCF	→ + +	IAM ACM REL RLC	ISUP		

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 early	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; cause = <b>Cause_value</b>				
Comments					
Message flows	Mg INVITE 181 Call Is Being Forwarded SIP_final_Response ACK	MGCF  ←  ←  ←  ←	ISUP  → IAM ← ACM  ← REL → RLC		

TP number	TP 107 005	Reference	7	.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receip			.2.0.1.0		
	SIF-130F/Basic call/Receip	IL_OI_KEL/				
Selection criteria						
Test Purpose name	A REL is received after an	early dialogue is establish	ed (181), a	final resp	onse is sent	
Test Purpose	Ensure that on receipt of a	REL message after an ea	rly dialogue	e due to se	ending a 183	
	Session Progress is establi	shed a SIP final response	is sent. Th	e respons	se code is derived	
	from the Cause value recei					
	The cause value of the rece					
	response.	5 0				
ISUP Parameter values	ACM: BCi Called party sta	tus – no indication				
loor rarameter values						
		oBCi in-band info available				
	REL: Cause indicator Cau					
SIP Parameter values	4xx/5xx/6xx: Reason: Q.85	0; cause = Cause_value				
Comments						
Message flows	Mg	MGCF			ISUP	
_	INVITE	<b>→</b>	<b>→</b>	IAM		
	183 Session Progress	<b>←</b>	<b>←</b>	ACM		
	100 00000111 1091000	-	•			
	SID final Passanss	<b>←</b>	_	REL		
	SIP_final_Response	=				
1	ACK	<b>→</b>	→	RLC		

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 = PI_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> <b>PI_value</b> <				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	<b>→</b>	→ IAM			
	180 Ringing	<del>-</del>	<b>←</b> ACM			
	SIP_final_Response	<b>+</b>	<b>←</b> REL			
	•	<del>)</del>	→ RLC			

TSS reference SIP-ISUP/Basic call/Receipt_of_REL/ Selection criteria PICS 6.2.1/5  Test Purpose name An ATP High Layer Compatibility IE present in a REL is mapped into the PSTN XML HighLayerCompatibility in the sent final response  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 Layer Compatibility = HLC_value  SIP Parameter values 4xx/5xx/6xx: xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<	TP number	TP_107_007	Reference		7.2.3.1.8		
Test Purpose name  An ATP High Layer Compatibility IE present in a REL is mapped into the PSTN XML HighLayerCompatibility in the sent final response  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 Layer Compatibility = HLC_value  SIP Parameter values  4xx/5xx/6xx:  < "xml version="1.0" encoding="utf-8"?> PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4	TSS reference	SIP-ISUP/Basic call/Rece	eipt_of_REL/		•		
HighLayerCompatibility in the sent final response  Test Purpose  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 Layer Compatibility = HLC_value  4xx/5xx/6xx:    SIP Parameter values  HighLayerCompatibility  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01  HLOctet4	Selection criteria		<del></del>				
Test Purpose  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 Layer Compatibility = HLC_value  4xx/5xx/6xx: xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4	Test Purpose name				ped into the	PSTN XML	
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 Layer Compatibility = HLC_value  4xx/5xx/6xx: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4							
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 Layer Compatibility = HLC_value	Test Purpose						
received REL High Layer Compatibility as indicated in table 6.1.1.7-3.  ISUP Parameter values  REL: ATP High Layer Compatibility = HLC_value  4xx/5xx/6xx: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4							
ISUP Parameter values  REL: ATP High Layer Compatibility = HLC_value  4xx/5xx/6xx: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4				• .		s derived from the	
SIP Parameter values  4xx/5xx/6xx: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4					6.1.1.7-3.		
xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4	ISUP Parameter values	REL: ATP High Layer C	Compatibility = <b>HLC</b> _	value			
PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4	SIP Parameter values	4xx/5xx/6xx:					
HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4		xml version="1.0" enco</th <th>oding="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	oding="utf-8"?>				
HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4		PSTN					
CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4		HighLayerCompatibili	HighLayerCompatibility				
Interpretation>100< PresentationMethod>01< HLOctet4							
PresentationMethod>01< HLOctet4		CodingStandard>00<					
HLOctet4		Interpretation>100<					
1:= 4 11 11							
HighlayerCharacteristics HIC value		HLOctet4					
r lightayer Ondracteristics > rico_value <		HighLayerCha	racteristics>HLC_va	alue<			
Comments	Comments						
Message flows Mg MGCF ISUP	Message flows	Mg	MG	CF		ISUP	
INVITE → → IAM			<b>→</b>	<b>→</b>	IAM		
180 Ringing ← ← ACM		180 Ringing	<b>←</b>	<b>←</b>	ACM		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				_			
SIP_final_Response ←		SIP final Response	<b>←</b>	<b>←</b>	RFI		
ACK → RLC		•		À			

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 Compat	ibility IE present in a	a REL is mapp	oed into the F	PSTN XML	
	LowLayerCompatibility in th	ne sent final respons	se			
Test Purpose	Ensure that on receipt of a					
	ATP, a SIP final response a					
	LowLayerCompatibility is co				y is derived from	
	the received REL Low Laye			le 6.1.1.7-4.		
ISUP Parameter values	REL: ATP Low Layer Con	npatibility = ITC_val	ue			
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
	LLOctet4>					
	TransferMode>0	0<				
	InformationTrans	sferRate>10000<				
Comments						
Message flows	Mg	MGC	F		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180 Ringing	<b>←</b>	<b>←</b>	ACM		
	SIP_final_Response	<b>←</b>	<b>←</b>	REL		
	ACK	<b>→</b>	<b>→</b>	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)
VA_22	503 Service Unavailable	CCBS indicator = CCBS possible  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 authorised)
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	504 Server timeout	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
		unrecognised 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	'01000'
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	<b>+</b>	RSC		
		-	RLC		
	CASE A				
	480 Temporarily Unavailable	<b>←</b>			
	ACK	<b>→</b>			
	CASE B	-	• IAM		
		7	I/\IVI		

TP number	TP_108_002	Reference	7.2.3.1.9 2)
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_RSC-GRS-CGB/	,
Selection criteria			
Test Purpose name	GRS received before an early	dialogue was established	
Test Purpose	Ensure that the SUT does not	send any SIP message if a GF	RS is received and no early
	dialogue is established. A 480	Temporarily Unavailable for ea	ach transaction 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	<b>→</b>	
	4xx, 5xx, 6xx (2)	<b>←</b>	
	ACK	<b>→</b> →	GRA

TP number	TP_108_003	Reference	7.2.3.1.9 2)
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_RSC-GRS-CGB/	
Selection criteria			
Test Purpose name	CGB received before an early	dialogue was established	
Test Purpose	Ensure that the SUT does not	, ,	
	received and no early dialogue transaction is sent.	is established. A 480 Tempo	rarily Unavailable for each
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>	GGB
	ACK	<b>→</b>	
	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 and an early dialogue is estable		y Unav	ailable if a	RSC is received
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		·					
Test Purpose name	GRS received after an early dia	logue 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>GRS</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>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	INVITE (2)	<b>→</b>	<b>→</b>	IAM			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	480 Temporarily Unavailable (1	) <b>←</b>	<b>←</b>	GRS			
	ACK	<b>→</b>	<b>→</b>	GRA			
	480 Temporarily Unavailable (2	) <b>←</b>					
	ACK	<b>→</b>					

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	<b>→ →</b>	GGBA		
	480 Temporarily Unavailable (2	2) ←			
	ACK	<b>→</b>			

TP number	TP 108 007	Reference		7.2.3.1.9 1)		
				1.2.3.1.9 1)		
TSS reference	SIP-ISUP/Basic call/Red	ceipt_of_RSC-GR	S-CGB/			
Selection criteria						
Test Purpose name	RSC received after a co	nfirmed dialogue v	vas established		-	
Test Purpose	Ensure that the SUT is a	Ensure that the SUT is able to send a BYE request if a RSC is received and a confirmed				
	dialogue is established.	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	Reference	7.2.3.1.9 1)		
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 send a BYE request for any dialogue affected in the range, if a <b>GRS</b> is received and a confirmed 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		
	200 OK INVITE	<b>+ +</b>	ANM		
	ACK	<b>→</b>			
	INVITE (2)	<b>→</b> →	IAM		
	180 Ringing	<b>+ +</b>	ACM		
	200 OK INVITE	<b>+ +</b>	ANM		
	ACK	<b>→</b>			
	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	Refere	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	CGB received after a confirmed dialogue was established				
Test Purpose	Ensure that the SUT is				ffected in the range, if	
		a CGB hardware oriented is received and a confirmed dialogue 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>	•	- ACM		
	200 OK INVITE	<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>	•	E ANM		
	ACK	<b>→</b>				
	BYE (1)	<b>←</b>	•	<b>F</b> GGB		
	200 OK 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 of REFER/				
Selection criteria	GII 1001 / Basic call/1 (cos)pt_c					
Test Purpose name	REFER received in the confirm	ned dialogue				
Test Purpose	Ensure that on receipt of a REI	FER request in the confirmed	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	<b>←</b>				
	180 Ringing	<b>+</b>	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	9a	
TSS reference	SIP-ISUP/Basic call/Rece	SIP-ISUP/Basic call/Receipt_of_REFER/				
Selection criteria		•				
Test Purpose name	REFER received in the ea	arly dialogue				
Test Purpose		Ensure that on receipt of a REFER request in the early dialogue, a 403 Forbidden response to this REFER request is sent.				
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>	<b>←</b>	ACM		
	REFER	<b>→</b>				
	403 Forbidden ←					
	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 NO	NOT PICS 6.2.3/1 AND NOT PICS 6.2.3/2				
Test Purpose name	Determination that insufficie	nt digits received				
Test Purpose	Ensure that on receipt of an INVITE request and the SUT determines that insufficient digits					
	received, the SUT sends a	84 Address Incomplete	final 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	SIP-ISUP/Basic call/Autonomous_Release/				
Selection criteria						
Test Purpose name	Connection request is not rout	able				
Test Purpose		Ensure that on receipt of an INVITE request and the SUT is unable to route the call due to congestion, the SUT sends a 480 Temporarily Unavailable final response.				
ISUP Parameter values						
SIP Parameter values						
Comments	Prepare the SUT that a call is	not routeable e.g. no circuit ava	nilable.			
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	ıre			
Test Purpose	Ensure that on receipt of an u	nknown parameter in an IS	SUP/I	BICC message and the		
	parameter compatibility is set	to 'Release call', a REL is	sent	the cause value is set to #99		
	or #110 and in addition a 500	Server Internal Error is ser	nt, th	e Reason header cause value		
	is set to the same value as se	nt in the REL.				
ISUP Parameter values	CPG: unknown parameter, pa	CPG: unknown parameter, parameter compatibility = release call				
	REL: cause value = 99 or 110	)				
SIP Parameter values	500 Server Internal Error: Re	ason: cause=99 or 110				
Comments						
Message flows	Mg	MGCF		ISUP		
		Apply pre test routin	е			
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180 Ringing	<del>-</del>	<b>←</b>	ACM		
	<b>←</b> 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/Autonor	SIP-ISUP/Basic call/Autonomous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUF	/BICC compatibility pro	ocedure			
Test Purpose	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 sent in the REL.					
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 r	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	<b>→</b>	→ IAM		
		T7 expiry			
	484 Address Incomplete	<b>←</b>	→ REL		
	ACK	<b>→</b>	<b>←</b> RLC		

TP number	TP_110_006	Reference		7.2.3.1.10	0		
TSS reference	SIP-ISUP/Basic call/Autonomo	ous_Release	1				
Selection criteria							
Test Purpose name	Call release due to T9 expiry						
Test Purpose	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: I	Reason: cau	se=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>	→	REL			
	ACK	<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/S	ending_of_INVITE/	
Selection criteria			
Test Purpose name	IAM received, a INVIT	E is sent	
Test Purpose	Ensure that on receipt	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_	of_INVITE/				
Selection criteria	PICS 6.2.1/4					
Test Purpose name	IAM received and COT reques	sted or performed, the INVITE i	s deferred until COT is			
	received					
Test Purpose	Ensure that on receipt of an IA	AM 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 t	to 'continuity check successful'.				
ISUP Parameter values	IAM: Nature of connection indicator= continuity check required on this circuit or continuity					
	check performed on previous circuit					
	COT: Continuity indicator=continuity check successful					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →					
	COT →	<b>→</b>	INVITE			
	← 100 Trying					
		Apply post test routine				

ISUP-SIP/Basic call/Sending_of_INVITE/   election criteria
Preconditions indicated in the supported header  Ensure that on receipt of an IAM and the continuity indicator is set to 'Continuity check performed on a previous circuit' or 'Continuity check required on this circuit' an INVITE request is sent and the Supported header contains the value precondition and 100rel. If the COT message is received, an UPDATE request is sent to fulfil the preconditions.  IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos 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 local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv
Ensure that on receipt of an IAM and the continuity indicator is set to 'Continuity check performed on a previous circuit' or 'Continuity check required on this circuit' an INVITE request is sent and the Supported header contains the value precondition and 100rel. If the COT message is received, an UPDATE request is sent to fulfil the preconditions.  IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
Ensure that on receipt of an IAM and the continuity indicator is set to 'Continuity check performed on a previous circuit' or 'Continuity check required on this circuit' an INVITE request is sent and the Supported header contains the value precondition and 100rel. If the COT message is received, an UPDATE request is sent to fulfil the preconditions.  IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
request is sent and the Supported header contains the value precondition and 100rel. If the COT message is received, an UPDATE request is sent to fulfil the preconditions.  IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none
the COT message is received, an UPDATE request is sent to fulfil the preconditions.  IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none
IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit COT: Continuity indicator=continuity check successful  INVITE: Supported: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos remote none a=curr:qos remote none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
check performed on previous circuit  COT: Continuity indicator=continuity check successful  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  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
COT: Continuity indicator=continuity check successful  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  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
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  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
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=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=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
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
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv
a=des:qos mandatory remote sendrecv
a-cominger remote contained.
UPDATE:
SDP a=curr:qos local sendrecv
a=curr:qos remote none
a=des:qos mandatory local sendrecv
a=des:qos mandatory remote sendrecv
OCC 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 rocal sendrecv
Comments
lessage flows ISUP MGCF Mg
IAM → INVITE
← 100 Trying
← 183 Session Progress
→ PRACK
← 200 OK (PRACK)
COT → UPDATÈ '
← 200 OK (UPDATE)
Apply post test routine

TP number	TP_201_004	Reference	7.2.3.2.1.3			
TSS reference	ISUP-SIP/Basic call/Send	ding_of_INVITE/				
Selection criteria	PICS 6.2.1/11					
Test Purpose name	Information request proce	edure successful, Calling p	arty number in INF received			
Test Purpose			y number is present, an Information			
		is sent. On receipt of an infi initial INVITE request is sei	formation (INF) message containing a nt.			
ISUP Parameter values						
	<b>INR:</b> Calling party addr	ess request indicator=callin	ng party address requested			
	<b>INF:</b> Calling party addr	ess response=calling party	address included			
	Calling party number					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	-			
	INR ←					
	INF → INVITE					
	← 100 Trying					
		Apply post test ro	outine			

TP number	TP_20	)1_005	Reference	7.2.3.2.1.3		
TSS reference	ISUP-	SIP/Basic call/Sending	_of_INVITE/			
Selection criteria	PICS	6.2.1/11 AND PICS 6.2	.1/12			
Test Purpose name		nation request procedur rejected	e not successful, no Calling par	ty number in INF received, the		
Test Purpose	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	IAM: No calling party number present INR: Calling party address request indicator=calling party address requested INF: Calling party address response=calling party address not included					
SIP Parameter values						
Comments						
Message flows	IAM INR INF REL RLC	SUP	MGCF  Apply post test routine	Mg		

TP number	TP_201_006	Reference	7.2.3.2.1.3			
TSS reference	ISUP-SIP/Basic call/Sending_o	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	IAM: No calling party number present INR: Calling party address request indicator=calling party address requested INF: Calling party address response=calling party address not included					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →					
	INR +					
	INF → INVITE					
	← 100 Trying					
		Apply post test routine	· · · ·			

TP number	TD 201	1 007	Reference	7.2.3.2.1.3			
		1					
TSS reference	_	IP/Basic call/Sending_o	Of_INVITE/				
Selection criteria	PICS 6	.2.1/11					
Test Purpose name	Informa	ition request procedure	not successful, T 33 is	expired			
Test Purpose			M and no Calling party rat. If timer T33 is expired	number is present, an Information I, the call is rejected.			
ISUP Parameter values		31 3					
SIP Parameter values							
Comments							
Message flows		ISUP MGCF Mg					
	IAM	<b>→</b>		_			
	INR	<b>←</b>	Start T <sub>33</sub>				
	REL ← T <sub>33</sub> Expiry						
	RLC	RLC →					
			Apply post test rout	tine			

TP number	TP_201_008	Reference	7.2.3.2.1.4 a)
TSS reference	ISUP-SIP/Basic call/Sending_c	of_INVITE/	
Selection criteria			
Test Purpose name		rmined by receipt of end-of-puls	
Test Purpose	Ensure that on receipt of an IA		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
		<b>←</b>	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_o	f_INVITE/		
Selection criteria					
Test Purpose name	End of address sign the national number		mined by receipt of th	ne maxin	num number of digits used in
Test Purpose			M and the called party numbering plan, the		r contains <b>maximum number</b> NVITE is sent.
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	ISUP IAM	<b>→</b>	MGCF	<b>→</b>	<b>Mg</b> INVITE
			Apply post test ro	← outine	100 Trying

TP number	TP_201_010	R	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 sign call to the called par		ined by receipt of s	ufficient	number of digits to route the
Test Purpose					r contains a <b>sufficient</b> initial INVITE is sent.
ISUP Parameter values			-		
SIP Parameter values					
Comments					
Message flows	ISUP IAM	<b>→</b>	MGCF	<b>→</b>	<b>Mg</b> INVITE
			Apply post test ro	<b>←</b> outine	100 Trying

TP number	TP_201_011		Reference	7.2.3.2.1.4 d)		
TSS reference	ISUP-SIP/Basic call/	Sending_c	f_INVITE/			
Selection criteria						
Test Purpose name	End of address signa	alling deter	mined by observing the	at 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	ISUP MGCF Mg				
	IAM	<b>→</b>				
	SAM	<b>→</b>				
	SAM	<b>→</b>	Start Ti/w1			
			Timeout Ti/w1	<ul><li>→ INVITE</li><li>← 100 Trying</li></ul>		
			Apply post test rou	utine		

TP number	TP_201_012		Reference		7.2.3.2.1.4		
TSS reference	ISUP-SIP/Basic cal	SUP-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 end-of-pulsing 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	status=n	o indication				
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF		Mg		
	IAM	<b>→</b>					
	SAM	<b>→</b>					
	SAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	ACM	<b>←</b>	Timeout Ti/w2		, 0		
		Apply post test routine					

TP number	TP_201_013		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 after expiry of Ti/w2 receipt of the maximum number of digits used in the national numbering plan					
Test Purpose	the national numbe	Ensure that an initial INVITE is sent after receipt of the maximum number of digits used in the national numbering plan, 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	status=n	o indication				
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF			Mg	
	IAM	<b>→</b>					
	SAM	<b>→</b>					
	SAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	ACM	<b>←</b>	Timeout Ti/w2				
		Apply post test routine					

TP number	TP_201_014	Reference	7.2.3.2.1.4				
TSS reference	ISUP-SIP/Basic call/Sending	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria							
Test Purpose name	Early ACM is sent after expiry of Ti/w2 receipt of a sufficient number of digits to route the 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 party, 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 status=r	no indication					
SIP Parameter values							
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →						
	SAM →						
	SAM →	Start Ti/w2	INVITE				
		+	- 100 Trying				
	ACM ←	Timeout Ti/w2  Apply post test routine	, ,				

TP number	TP_201_015	F	Reference	7.2.3.2.1.4			
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending of INVITE/					
Selection criteria	PICS 6.2.3/3	PICS 6.2.3/3					
Test Purpose name	A PSTN XML Send determined	A PSTN XML SendingCompleteIndication is sent if the end of the address signalling is determined					
Test Purpose	Ensure that the end SendingCompleteIr			rmined a PSTN XML			
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	ISUP IAM SAM	<b>→</b>	MGCF	Mg			
	SAM	<b>→</b>	Apply post test ro	→ INVITE ← 100 Trying  putine			

TP number	TP_201_016	Referen	се	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 usi	ing the in-dialogue me	ethod		
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	INITO O I	D: 11 11 11 11	1: 000		
SIP Parameter values	INFO: Subsequent	:Digit: <digits received<="" th=""><th>d in Saivis&gt;</th><th></th></digits>	d in Saivis>		
Comments	IOUD		МООГ		
Message flows	ISUP IAM CASE A	<del>)</del>	MGCF	Mg → INVITE	
				<ul><li>← 484 Address Incomplete</li><li>→ ACK</li></ul>	
	SAM	<b>→</b>		<ul><li>→ INVITE</li><li>← 183 Session Progress</li></ul>	
	SAM	<b>→</b>		<ul><li>→ INFO</li><li>← 200 OK (INFO)</li></ul>	
	CASE B			← 183 Session Progress	
	SAM	<b>→</b>		→ INFO ← 200 OK (INFO)	
	SAM	→ Apply	post test routir	→ INFO ← 200 OK (INFO)	

TP number	TP 201 017	Reference		7.2.3.2.1a.3			
TSS reference				7.2.3.2.1a.3			
		call/Sending_of_INVITE/					
Selection criteria	PICS 6.2.3/2						
Test Purpose name	Overlap dialling	Overlap dialling using the multiple INVITE method					
Test Purpose	Ensure that on re	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	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	INVITE: Requi	est URI <all digits="" i<="" in="" received="" th="" the=""><th>AM and S</th><th>AMs&gt;</th></all>	AM and S	AMs>			
	From:	tag= <equal initial="" invite="" to=""></equal>					
		D: <equal initial="" invite="" to=""></equal>					
Comments		- 1					
Message flows	ISUP	MGCF		Mg			
	IAM	<b>→</b>	<b>→</b>	INVITE			
			<b>←</b>	484 Address Incomplete			
			<b>→</b>	ACK			
			-	HOR			
	SAM	<b>→</b>	<b>→</b>	INVITE			
	OAW	•	÷				
			_	484 Address Incomplete			
			<b>→</b>	ACK			
	CANA	_	<b>→</b>	INIVITE			
	SAM	Apply post tost	_	INVITE			
		Apply post test	routine				

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 additional	received SAMs are ignored			
Test Purpose	Ensure that after expiry of Ti/w	2 an ACM is sent and the called	d party status indicator is set		
	to 'no indication' and additional	received SAMs are ignored.	·		
ISUP Parameter values	<b>ACM:</b> 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 ←	Timeout Ti/w2			
	SAM →				
		Apply post test routine			

TP number	TP 201 019	Referenc	e	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		g the in-dialogue met	hod				
Test Purpose				procedure is used an			
l cott a pood	additional received S		riiio tiio iii didiogac	procedure to acca arr			
ISUP Parameter values	additional room of	" tivi io igrioroa:					
SIP Parameter values	INFO: SubsequentD	Digit: <digits received<="" th=""><th>in SAMs&gt;</th><th></th></digits>	in SAMs>				
Comments	2. 20000400112	.g					
Message flows	ISUP	M	GCF	Mg			
	IAM	<b>→</b>	<b>→</b>	INVITE			
			<del>-</del>	484 Address Incomplete			
			<b>→</b>	ACK			
				71011			
	SAM	<b>→</b>	<b>→</b>	INVITE			
	G/ (IVI	•	ŕ	183 Session Progress			
			•	103 Session Flogress			
	SAM	<b>→</b>	<b>→</b>	INFO			
	SAIVI	7	=				
			+	200 OK (INFO)			
	A CN4	_	-	400 Dinging			
	ACM	<del>(</del>	<b>←</b>	180 Ringing			
	SAM	<b>→</b>					
		Apply p	ost test routine				

TP number	TP 201 (	020	Reference		7.2.3.2.1a.3	
TSS reference		SUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria		PICS 6.2.3/2				
Test Purpose name	Overlap d	lialling using the multi	ple INVITE method			
Test Purpose				le IN\	/ITE procedure is used an	
		received SAM is igno			•	
ISUP Parameter values						
SIP Parameter values	INVITE:	Request URI <all th="" the<=""><th>e received digits in IAM a</th><th>and S/</th><th>AMs&gt;</th></all>	e received digits in IAM a	and S/	AMs>	
		From: tag= <equal th="" to<=""><th>initial INVITE&gt;</th><th></th><th></th></equal>	initial INVITE>			
		Call-ID: <equal ini<="" th="" to=""><th>tial INVITE&gt;</th><th></th><th></th></equal>	tial INVITE>			
Comments						
Message flows	I	SUP	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	
	SAM	<b>→</b>		<b>→</b>	INVITE	
	ACM ← 180 Ringing					
	SAM	<b>→</b>				
			Apply post test rout	ine		

TP number	TP_201_02	1	Reference		7.2.3.2.1a.3
TSS reference		Basic call/Sending_of			
Selection criteria		1 AND PICS 6.2.1/3	<del></del>		
Test Purpose name	Overlap dia	lling using the multip	le INVITE method and	preco	nditions used
Test Purpose	Ensure that on receipt of an IAM and the continuity indicator is set to 'Continuity check performed on a previous circuit' or 'Continuity check required on this circuit' the INVITE requests are sent for all digits to be transferred and the Supported header contains the value <b>precondition</b> and <b>100rel</b> . If the COT message is received, an UPDATE request is sent to fulfil the preconditions.				
ISUP Parameter values			ator= continuity check	require	ed on this circuit or continuity
	check perfo	rmed on previous cir	-	•	,
SIP Parameter values	SDP	From: tag= <equal 100rel<="" <equal="" a="des:qos" acurr:qos="" call-id:="" init="" local="" manda="" nacurr:qos="" none="" re:="" remote="" th="" to=""><th>ial INVITE&gt; ion, 100rel one e none itory local sendrecv emote sendrecv</th><th>and S</th><th>AMs&gt;</th></equal>	ial INVITE> ion, 100rel one e none itory local sendrecv emote sendrecv	and S	AMs>
	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 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	The SAMs	should sent within the	e duration of timer T8		
Message flows	IAM	UP →	MGCF	<b>→ ← →</b>	Mg INVITE 484 Address Incomplete ACK
	SAM	<b>→</b>		<b>→</b> <b>←</b> <b>→</b>	INVITE 484 Address Incomplete ACK
	SAM	<b>→</b>		→ + → +	INVITE 183 Session Progress PRACK 200 OK (PRACK)
	СОТ	<b>→</b>	Apply post test rou	<b>→</b>	UPDATE 200 OK (UPDATE)

TP number	TP_201_022	Reference	7.2.3.2.1a.3				
TSS reference	ISUP-SIP/Basic call/Sending_o	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 6.2.3/1	PICS 6.2.3/1					
Test Purpose name	Timer Ti/w3 expires, REL caus	se 28 is sent					
Test Purpose	Ensure that on expiry of timer	Ti/w3 a REL is sent and the cau	use value is set to #28.				
ISUP Parameter values	REL: Cause=invalid number	format (address incomplete)					
SIP Parameter values	From: tag= <equal th="" to<=""><th colspan="5">INVITE: Request URI <all and="" digits="" iam="" in="" received="" sams="" the=""> From: tag=<equal initial="" invite="" to=""> Call-ID: <equal initial="" invite="" to=""></equal></equal></all></th></equal>	INVITE: Request URI <all and="" digits="" iam="" in="" received="" sams="" the=""> From: tag=<equal initial="" invite="" to=""> Call-ID: <equal initial="" invite="" to=""></equal></equal></all>					
Comments	·						
Message flows	ISUP	MGCF	Mg				
	IAM →	Start Ti/w3 +	INVITE 484 Address Incomplete ACK				
	SAM →	Start Ti/w3	INVITE 484 Address Incomplete ACK				
	REL Timeout Ti/w3 RLC Apply post test routine						

-		1= 4	[= · -				
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 Be					
Test Purpose	Ensure that on recei	pt of an IAM that includes a U	SI and USI Prime parameter then the				
		ime into the second Bearer Ca	pability stated in the XML				
	BearerCapabilit						
		The first offered codec is the CLEARMODE codec					
	<ul> <li>Map the USI int</li> </ul>	Map the USI into the first Bearer Capability stated in the XML BearerCapability					
	element and						
	<ul> <li>The second offer</li> </ul>	ered codec is an Audio codec.					
ISUP Parameter values	IAM: USI=speech	or 3,1 kHz audio					
	USI prime=u	nrestricted digital info with T/A					
	TMR Prime:	64 kBit/s preferred					
		deo Telephony)					
SIP Parameter values		INVITE:					
	xml version="1.0"</th <th>encoding="utf-8"?&gt;</th> <th></th>	encoding="utf-8"?>					
	PSTN						
	BearerCapability	•					
	BCoctet3						
		andard>00<					
	Information	onTransferCapability>mapped	from USI<				
	BearerCapability BCoctet3						
		andard>00<					
		onTransferCapability>mapped	from LISI prime/				
	Illioilliatio	on ransier Capability > mapped	nom our prime				
	••••						
	SDP:						
	m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper>						
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM	<b>→</b>	→ INVITE				
			← 100 Trying				
		Apply post test	, ,				

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 mapped into Request URI 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:			
	If the nature of address indicator is set to 'National (significant) number' then the country code of the network in which the SUT is located and a leading '+' is inserted before the number digits received in the Called party number.			
	If the nature of address set to 'International number' a '+' is inserted before the number digita received in the Called party number.			
ISUP Parameter values	digits received in the Called party number.  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=""></called>			
	if the called party number is an international number			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	-		
		•	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:			
	<ul> <li>If the nature of address indicator is set to 'National (significant) number' then the country code of the network in which the SUT is located and a leading '+' is inserted before the number digits received in the Called party number.</li> </ul>			
	If the nature of address set to 'International number' a '+' is inserted before the number digits received in the Called party 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 or  tel: '+CC' <called digits="" number="" party=""> if the called party number is a national number sip: '+' <called digits="" number="" party="">@hostportion; user=phone or  tel: '+' <called digits="" number="" party=""> if the called party number is an international number</called></called></called></called>			
Comments	IOUD	МООГ	B	
Message flows	ISUP →	MGCF →	<b>Mg</b> INVITE 100 Trying	
	Apply post test routine			

TP number	TP_201_026A	Reference	7.2.3.2.2.2.	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.4/3			
Test Purpose name	Mapping of TMR speech into SDP			
Test Purpose	Ensure that on receipt of an IAM the <b>TMR speech_value</b> is mapped into the SDP m line			
	and a attributes.			
ISUP Parameter values	IAM: TMR= speech			
SIP Parameter values	INVITE:	·		
	SDP			
	m=audio <port #=""> RTP/AVP 0 [additional codes]</port>			
	a=rtpmap: 0 PCMU/8000			
	OR			
	m=audio <port #=""> RTP/AVP 8 [additional codes]</port>			
	a=rtpmap: 8 PCMA/8000			
	OR			
	m=audio <port #=""> RTP/AVP <dynamic-pt> [additional codes]</dynamic-pt></port>			
	a=rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>			
	OR			
	m=audio <port #=""> RTP/AVP <dynamic-pt> [additional codes] a=rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt></dynamic-pt></port>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	Apply post test routine			

Reference	7.2.3.2.2.2.		
ISUP-SIP/Basic call/Sending_of_INVITE/			
PICS 6.2.4/4			
R 3,1 kHz audio i	s mapped into the		
SDP m line and a attributes.			
IAM: TMR=3,1 kHz audio			
INVITE: SDP m=audio <port #=""> RTP/AVP 0 [additional codes] a=rtpmap: 0 PCMU/8000 OR m=audio <port #=""> RTP/AVP 8 [additional codes] a=rtpmap: 8 PCMA/8000 OR m=audio <port #=""> RTP/AVP <dynamic-pt> [additional codes] a=rtpmap: <dynamic-pt> PCMU/8000 OR m=audio <port #=""> RTP/AVP <dynamic-pt> [additional codes] a=rtpmap: <dynamic-pt> PCMU/8000 OR m=audio <port #=""> RTP/AVP <dynamic-pt> [additional codes] a=rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt></dynamic-pt></port></dynamic-pt></dynamic-pt></port></dynamic-pt></dynamic-pt></port></port></port>			
MGCF	Mg		
IAM → INVITE			
← 100 Trying  Apply post test routine			

TP number	TP_201_026C	Reference	7.2.3.2.2.2
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.4/2		
Test Purpose name	Mapping of TMR 64 kBit/s unre	stricted into SDP	
Test Purpose	Ensure that on receipt of an IAM the TMR 64 kBit/s unrestricted is mapped into the SDP		
	m line and a attributes.		
ISUP Parameter values	IAM: TMR=64 kBit/s unrestricted		
SIP Parameter values	INVITE:		
	SDP		
	m=audio <port #=""> RTP/AVP <dynamic-pt></dynamic-pt></port>		
	a=rtpmap: <dynamic-pt> CLEARMODE/8000</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: Void

TP number	TP_201_027	Reference	7.2.3.2.2.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria				
Test Purpose name	AMR codec included	AMR codec included		
Test Purpose	Ensure that on receipt of an IAM an INVITE is sent. If the received IAM contains a TMR set to speech or 3,1 kHz audio, the SDP in the sent INVITE contains an AMR codec.			
ISUP Parameter values	IAM: TMR=speech or 3,1 kHz audio			
SIP Parameter values	INVITE:			
	SDP:			
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>			
	a = <rtpmap dynamic="" pt=""> AMR</rtpmap>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			← 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_of_INVITE/			
Selection criteria				
Test Purpose name	Mapping of USI parameter			
Test Purpose	Ensure that on receipt of an IA	Ensure that on receipt of an IAM the <b>USI_value</b> is mapped into 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_c	of_INVITE/			
Selection criteria					
Test Purpose name	Mapping of Calling party's cate				
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	<b>INVITE:</b> P-Asserted-Identity				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	← 100 Trying				
		Apply post test routine			

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

CPC_value	ISUP IAM parameter	SIP Parameters	
	Calling party's category	"cpc" URI parameter in P-Asserted-Identity	Accept-Language
VA_01	operator, language French	operator	fr
VA_02	operator, language English	operator	en
VA_03	operator, language German	operator	de
VA_04	operator, language Russian	operator	ru
VA_05	operator, language Spanish	operator	es
VA_06	ordinary calling subscriber	ordinary	
VA_07	Test call	test	
VA_08	Payphone	payphone	
VA_09	calling party's category unknown at this time	unknown	
VA_10	mobile terminal located in the home PLMN	mobile-hplmn	
VA 11	mobile terminal located in a visited PLMN	mobile-vplmn	

TP number	TP_201_030	Reference	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 HOP counter parameter, the value 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-SIF	P/Basic call/Sending_c	f_INVITE/			
Selection criteria						
Test Purpose name	The O-M	GCF inserts an IMS C	ommunication Service	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	INVITE:	Contact: icsi-ref Accept-Contact: P-Asserted-Service:	urn:urn-7:3gpp-service	e.ims.icsi.mmtel		
Comments						
Message flows		ISUP	MGCF	Mg		
	IAM	<b>→</b>	Apply post test rou	→ INVITE ← 100 Trying utine		

TP number	TP_201_032	Reference	7.2.3.2.2.6
TSS reference	ISUP-SIP/Basic call/Se	ending_of_INVITE/	·
Selection criteria			
Test Purpose name	Support of P-Early-Me	dia header	
Test Purpose	Ensure that on receipt	of an IAM a P-Early-Media h	eader is present in the sent INVITE
	request.		
ISUP Parameter values			
SIP Parameter values	<b>INVITE:</b> P-Early-Med	dia: supported	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
	Apply post 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	tibility IE into PSTN XML High	LayerCompatibility			
Test Purpose	Ensure stat on receipt of an IA Compatibility IE a PSTN XML I the HLC_VA as indicated in tal	HighLayerCompatibility elemer	resent containing a High Layer nt is present derived according			
ISUP Parameter values	IAM:					
	ATP High Layer Compatibility High Layer Characteris	tics= <b>HLC_VA</b>				
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	l>01<				
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_VA</b> <					
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 Compa				
Test Purpose	Ensure stat on receipt of an IAM and an ATP parameter is present containing a Low Layer				
	Compatibility IE a PSTN XML		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= <b>ITC_VA</b>			
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	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	'01000'
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 I	E into PSTN XML BearerCapa	ability			
Test Purpose	Ensure stat on receipt of an IAM and an USI parameter is present ,a PSTN XML					
	BearerCapability element is pro	esent derived according the IT	C_value as indicated in			
	table 6.1.2.1-6.					
ISUP Parameter values	IAM:					
	USI					
	Information Transfer Ca	pability= <b>ITC_value</b>				
SIP Parameter values	INVITE:					
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00					
	InformationTransferCapability>ITC_value<					
	BCoctet4					
	TransferMode>00<	D / 10000				
0	InformationTransfer	Rate>10000<				
Comments	IOUE	11005				
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.					
Test Purpose name	Mapping of UTI IE into PSTN	XML BearerCapability				
Test Purpose	Ensure stat on receipt of an	Ensure stat on receipt of an IAM and an User Teleservice Information parameter is				
		ayerCompatibility element is pro	esent derived according the			
	HLC_value as indicated in ta	ble 6.1.2.1-7.				
ISUP Parameter values	IAM: UTI					
	High Layer Chara	cteristics>HLC_value				
SIP Parameter values	INVITE:					
	PSTN XML MIME body					
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100	Interpretation>100<				
	PresentationMeth	od>01<				
	HLOctet4					
	HighLayerCharac	teristics> <b>HLC_value</b> <				
Comments						
Message flows		ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE			
		← 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_of_INVITE/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Forward call indic	ator into PSTN XML Progre	essIndicator		
Test Purpose	Ensure that on receipt of an I/	Ensure that on receipt of an IAM the ISDN User Part indicator and the ISDN access			
	indicator of the Forward call ir	ndicator are mapped into a	PSTNXML ProgressIndicator		
	element according the roles P	I_value in table 6.1.2.1-8.			
ISUP Parameter values	IAM: Forward call indicator				
	ISDN User Part inc				
	ISDN access indica	ator			
SIP Parameter values	INVITE:				
	PSTM XML MIME body				
	xml version="1.0" encoding</th <th>j="utf-8"?&gt;</th> <th></th>	j="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location>yyyy<				
	ProgressOctet4	<b>-</b>			
	ProgressDescription				
Comments	The Progress indicator value	·			
Message flows	ISUP	MGCF	Mg		
	IAM →		→ INVITE		
			← 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 indi	cators 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 Prog		nt 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	'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	'0000101'
	telecommunication service change	
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_201_039	Reference	7.2.3.2.2A1.1		
TSS reference	ISUP-SIP/Basic call/Sendi	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/1				
Test Purpose name	Number Portability Separa	te Directory Number Address	sing Method is used		
Test Purpose		Ensure that on receipt of an IAM and the Called Directory Number is present <b>Nature of</b>			
			l (significant) number format" or		
	"National (significant) num	ber" or "Network routing num	ber in network specific number		
	format", an INVITE us sent				
			alled Directory Number. '+CC' is		
	inserted before the digitstri				
			om the Called Party Number. '+CC'		
	is inserted before the				
		eter is added to the <b>request U</b>			
		• The userpart of the <b>To header</b> field is derived from the Called Directory Number. '+CC'			
	is inserted before the digitstring:				
	The To header does not contain the npdi and rn parameters.				
ISUP Parameter values	IAM: Called party number "National (significant) number"				
	Called Directory Number				
	Nature of address indicator:				
	"Network routing number in national (significant) number format" or				
		"National (significant) number" or			
SIP Parameter values	"Network routing number in network specific number format"				
SIP Parameter values		INVITE: Request line <+CC Called Directory Number>; rn= +CC Called party			
Comments	number;npd	I			
••••••	ISUP	MGCF	Ma		
Message flows	IAM =		Mg → INVITE		
	IAW 7	7			
	← 100 Trying				
		Apply post test routi	ne		

TP number	TP_201_040	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	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.  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:  The rn parameter of the request URI is derived from the Called Party Number. The digits follow the prefix representing the Portability Routing Number are removed from the digitstring. '+CC' is inserted before the digitstring.  The npdi URI parameter is added to the request URI.  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:  The To header does not contain the npdi and rn parameters.				
SUP Parameter values	IAM: Called party number Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number"				
SIP Parameter values	INVITE: Request line <+CC Called Party Number>; rn= <+CC Portability Routing Number>;npdi				
Comments					
lessage flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			<ul><li>100 Trying</li></ul>		
	Apply post test routine				

TP number	TP_201_041	Reference	7.2.3.2.	2A1.3	
TSS reference	ISUP-SIP/Basic	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/3				
Test Purpose name	Number Portabi	Number Portability Separate Network Routing Number Addressing 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 userpart of inserted before	<ul> <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. '+CC' is inserted before the digitstring:</li> <li>The To header does not contain the npdi and rn parameters.</li> </ul>			
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				
Comments					
Message flows	ISUP	MGCF		Mg	
	IAM	<b>→</b>	→ INVITE		
			← 100 Try	ring	
	Apply post test routine				

TP number	TP_201_042	Reference	7.2.3.2.2B.1		
TSS reference	ISUP-SIP/Basic call/Send	ling_of_INVITE/	·		
Selection criteria	PICS 6.2.2/5 AND PICS 6	5.2.2/8			
Test Purpose name	Carrier selection: Mapping	g of ISUP 'Transit Network	Selection' parameter into cic URI		
	parameter				
Test Purpose		Ensure that on receipt of an IAM and a Transit Network Selection parameter is present, the			
			sent in the <b>cic</b> URI parameter of the		
	Request URI of the sent	Request URI of the sent INVITE request.			
ISUP Parameter values	IAM: Transit Network Sel	IAM: Transit Network Selection			
SIP Parameter values	<b>INVITE:</b> Request URI sip:	INVITE: Request URI sip: <called number;cic="TNS" party="" th="" value<=""></called>			
Comments					
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	→ INVITE		
	← 100 Trying				
	Apply post test routine				

TP number	TP_201_043	Reference	7.2.3.2.2C		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.1.1/2				
Test Purpose name	Mapping of Mobile Equipment Identifier into a 'gsma' imei instance in the Contact header				
Test Purpose	Ensure when an IAM is received and an Application Transport parameter is present				
	containing a Mobile Equipment Identifier encapsulated content an INVITE request is sent.				
	The INVITE request contains in the Contact header field an instance-id is a SIP Contact				
	header field parameter set as a		nt in the MEI content in the		
	Application Transport parameter	er.			
ISUP Parameter values	IAM:				
	APP				
	application context iden	tifier = '0000111'			
	'0000001' (Mobile Equipment Identifier: MEI)				
	Length indicator				
	Compatibility information				
	Mobile station Equipment Identity [TAC] [SNR] [CD/SD] (IMEI)				
	Or				
		bile station Equipment Identity	and Software Version		
	Number [TAC] [SNR] [SVN] (IMEISV)				
SIP Parameter values	INVITE:				
	Contact: [contact address];+sip.instance="urn:gsma:imei:[TAC]-[SNR]-[CD/SD]>"				
	or				
	Contact: [contact address];	+sip.instance="urn:gsma:imei:	TAC]-[SNR]-0;svn=[SVN]>"		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

## 6.1.2.2 Receipt of CONTINUITY

TP number	TP_202_001	Reference	7.2.3.2.3		
TSS reference	ISUP-SIP/Basic call/Receipt_o	ISUP-SIP/Basic call/Receipt of COT/			
Selection criteria	PICS 6.2.1/3	PICS 6.2.1/3			
Test Purpose name	COT received after INVITE was	s sent			
Test Purpose	When the requested preconditions in the IMS have been met and if outstanding continuity procedures have successfully been completed (COT with the Continuity Indicators parameter set to 'continuity check successful' is received), a SDP offer in a SIP UPDATE request shall be sent for each early SIP dialogue confirming that all the required preconditions have been met.				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>+</b> + + + + + + + + + + + + + + + + + +	INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK)		
	сот →		UPDATE 200 OK(UPDATE) e		

## 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/S	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria					
Test Purpose name	Detection of end of ac	ddress signalling by the expiry of	f Timer T i/w <sub>1</sub>		
Test Purpose	-	Insure that after expiry of Timer T i/w1 after the last address signalling information was eceived, an ACM is sent and the Called party's status indicator is set to 'no indication'.			
ISUP Parameter values	ACM: Called party's	status indicator=no indication			
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>			
		T i/w1 running			
	SAM	→			
		T i/w1 running			
	SAM	<b>→</b>			
		T i/w1 running			
	ACM	← T i/w1 expired			
		<del>-</del>	INVITE		
		•	100 Trying		
		Apply post test rou	ıtine		

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	ging was received			
Test Purpose	Ensure that on receipt of a 180				
	header, the SUT sends an ACI	M. The Called party's statu	is indicator is set to 'subscriber		
	free'. The ringing tone is sent by the SUT.				
ISUP Parameter values	ACM: Called party's status indicator =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	5 5		
		Apply post test routin	e		

TP number	TP_203_003		Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic cal	l/Sending_of	_ACM/	•		
Selection criteria						
Test Purpose name	180 received, a P-E	arly-Media h	eader is present			
Test Purpose	does not authorize t	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 indi	cator =subscriber free	;		
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF		Mg	
-	IAM	<b>→</b>	=	INVITE		
			•	100 Trying		
	ACM	<b>←</b>	•	180 Ringing		
		<b>←</b> R	inging tone	3 3		
			Apply post test ro	utine		

TP number	TP_203_004	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending	_of_ACM/			
Selection criteria	PICS 6.2.1/14				
Test Purpose name	180 received, a P-Early-Med	ia header not authorize early	/ media is present		
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 status i	ndicator =subscriber free			
SIP Parameter values	180 P-Early-Media: inactive				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →		INVITE 100 Trying		
	ACM ←		180 Ringing		
	Early media ←		Early media		
		Apply post test routin	е		

TP number	TP_203_005	F	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic ca	II/Sending_of_	_ACM/	•		
Selection criteria						
Test Purpose name	181 received, a P-E	Early-Media h	eader authorize ear	ly media 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 oBCi = in-ba			ttern is now available		
SIP Parameter values	181 P-Early-Media:					
Comments		<b>,</b>				
Message flows	ISUP IAM ACM Early media	<b>→ ← ←</b>		Mg → INVITE ← 100 Trying ← 181 Call is Being Forwarded ← Early media		
			Apply post test ro	outine		

TP number	TP_203_006	Reference		7.2.3.2.4		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria						
Test Purpose name	183 received, a P-E	arly-Media header auth	orize early r	media is present		
Test Purpose	authorizing backwa set to 'no indication information indicato	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		's status indicator =no in and information or appro		rn is now available		
SIP Parameter values	183 P-Early-Media:	sendonly	•			
Comments		•				
Message flows	ISUP	MGCF	ı	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE 100 Trying		
	ACM	<b>←</b>	<b>←</b>	183 Session Progress		
	Early media	<b>←</b>	<b>←</b>	Early media		
		Apply post test routine				

TP number	TP_203_006A	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending	_of_ACM/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	183 received, a Reason hea	der present			
Test Purpose	Ensure that on receipt of a 183 Session Progress and a Reason header is present, an ACM is sent. The Called party's status indicator is set to 'no indication' and a Cause indicator parameter is present, the 'Cause value' set to the 'cause' value of the Reason header in the received 183 Session Progress.				
ISUP Parameter values	ACM: Called party's status i Cause indicators Cause value [cause value]	ndicator =no indication			
SIP Parameter values	183 Reason: Q850;cause=[ca	ause value]			
Comments	, , , , , , , , , , , , , , , , , , ,	•			
Message flows	ISUP	MGCF	Mg		
	IAM →  ACM ←  Early media ←	<del>&lt;</del>	INVITE 100 Trying 183 Session Progress <i>Early media</i>		
		Apply post test routing	e		

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	expired			
Test Purpose	Ensure that after explise set to 'no indication		ner T i/w2 an ACM i	s sent.	The Called par	ty's status indicator
ISUP Parameter values	ACM: Called party's	s status ir	ndicator =no indicat	ion		
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF			Mg
	IAM	<b>→</b>	T i/w2 started	<b>→</b>	INVITE 100 Trying	
	ACM	+	T i/w2 expired Apply post tes	st routi	ne	

TP number	TP_203_008	Reference	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 a	ssociated 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: < Media res	ource URL>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE 100 Trying		
	ACM <b>←</b>	← Apply post test routing	180 Ringing		

TP number	TP_203_009	Reference	7.2.3.2.4
TSS reference	ISUP-SIP/Basic call/Sending	of_ACM/	·
Selection criteria	PICS 6.2.1/17		
Test Purpose name	The SUT terminates the send	ing of awaiting answer indicati	on
Test Purpose	P-Early-Media received in a 1		wer indication as indicated in a P-Early-Media header does not ver indication is disabled.
ISUP Parameter values			
SIP Parameter values	183 : P-Early-Media: inactive		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →		VITE 0 Trying
	ACM ← Ringing tor	T i/w2 expired ne	
		← 18	3 Session Progress
		Apply post test routine	

TP number	TP_203_010	Referen	ce	7.2.3.2.4
TSS reference	ISUP-SIP/Basic cal	I/Sending_of_ACM/		·
Selection criteria	PICS 6.2.1/16			
Test Purpose name	The SUT initiates th	ne sending of awaitin	g answer indica	ation
Test Purpose	Ensure that the SU P-Early-Media rece authorizes backwar	ived in a 183 Session	g of awaiting ar n Progress and	nswer indication as indicated in a the P-Early-Media header
ISUP Parameter values				
SIP Parameter values	183 : P-Early-Media	a: sendonly		
Comments				
Message flows	ISUP	MG	CF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	ACM	<b>←</b>	<b>←</b>	183 Session Progress
		<b>←</b>	<b>←</b>	Early media
		Apply	post test routi	ne

	Reference Sending_of_ACM/ of Backward call indicator in A	7.2.3.2.5.1			
180 received, coding	•	OM THE			
	of Backward call indicator in A	OM TMB			
	of Backward call indicator in A				
IAM with Transmissio		ACM TMR speech or 3,1 kHz audio			
	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.				
Ensure that on receip	t of a 180 Ringing response, a	an ACM is sent and the Backward call			
indicator is set to the	following values:				
<ul> <li>Charge indicator</li> </ul>	= charge (10)				
<ul> <li>Called party's sta</li> </ul>	itus indicator = subscriber free	e (01)			
	· ·				
End-to-end method indicator = no end-to-end method available (00)					
<b>,</b> ,					
• • • • • • • • • • • • • • • • • • • •					
` '					
	· · ·				
IAM: Transmission M	edium Requirement indicator=	speech or 3,1 kHz			
ISUP	MGCF	Mg			
IAM	<b>→</b>	→ INVITE			
		← 100 Trying			
ACM	<b>←</b>	← 180 Ringing			
		5 5			
	indicator is set to the Charge indicator Called party's sta Called party's cat End-to-end meth Interworking indic End-to-end inforr ISDN user part/B ISDN access indi Echo control dev IAM: Transmission M	Interworking indicator = interworking encounter     End-to-end information indicator = no end-to-e     ISDN user part/BICC indicator = ISDN user particular = ISDN user particular = terminating access note    Echo control device indicator = incoming echo     IAM: Transmission Medium Requirement indicators  ISUP			

TP number	TP_203_012	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria					
Test Purpose name	181 received, coding of Backward call indicator in ACM TMR speech or 3,1 kHz audio				
Test Purpose	IAM with Transmission Mediun	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.			
	Ensure that on receipt of a 181	I Call is Being forwarded i	esponse, an ACM is sent and the		
	Backward call indicator is set t	o the following values:			
	<ul> <li>Charge indicator = charge</li> </ul>	(10)			
	<ul> <li>Called party's status indicate</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category inc</li> </ul>	dicator = no indication (00	)		
	<ul> <li>End-to-end method indica</li> </ul>	tor = no end-to-end metho	od available (00)		
	Interworking indicator = interworking encountered (1)				
	<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>		* *		
	<ul> <li>ISDN access indicator = to</li> </ul>	-	• ` '		
	<ul> <li>Echo control device indica</li> </ul>				
ISUP Parameter values	IAM: Transmission Medium Re		, ,		
SIP Parameter values		·			
Comments					
Message flows	ISUP MGCF Mg				
_	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	181 Call is Being forwarded		
		Apply post test routing			

TP number	TP_203_013	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name	183 received, coding of Backw	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 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)				
ISUP Parameter values	Echo control device indication  LAM: Transmission Medium Re				
SIP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
oir rafameter values	183:  D. Farly Modic: shackward early modic authorizeds				
Comments	P-Early-Media: <backward authorized="" early="" media=""></backward>				
Message flows	ISUP MGCF Mg				
mosage non-	IAM →	→ ← ←	INVITE 100 Trying 183 Session Progress		
		Apply post test routing	ne		

TP number	TP_203_014	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				
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 1	80 Ringing response, an A0	CM is sent and the Backward call		
	indicator is set to the following	ng values:			
	<ul> <li>Charge indicator = charge</li> </ul>	ge (10)			
	<ul> <li>Called party's status ind</li> </ul>	licator = subscriber free (01)			
	<ul> <li>Called party's category</li> </ul>	indicator = no indication (00	)		
		cator = no end-to-end methor	· ·		
		Interworking indicator = interworking encountered (1)			
	• End-to-end information indicator = no end-to-end information available (0)				
		dicator = ISDN user part not	* *		
	· ·	terminating access non-IS	• , ,		
		cator = incoming echo cont			
ISUP Parameter values	IAM: Transmission Medium 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>	<b>←</b>	180 Ringing		
		Apply post test routing	5 5		

TP number	TP_203_015	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				
Test Purpose name	181 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	of a 181 Call is Being forwa	arded response, an ACM is sent and the		
	Backward call indicator	is set to the following valu	es:		
	<ul> <li>Charge indicator =</li> </ul>	charge (10)			
	<ul> <li>Called party's statu</li> </ul>	s indicator = no indication	(00)		
	<ul> <li>Called party's categ</li> </ul>	gory indicator = no indicati	on (00)		
	<ul> <li>End-to-end method</li> </ul>	l indicator = no end-to-end	I method available (00)		
	<ul> <li>Interworking indicat</li> </ul>	tor = interworking encount	ered (1)		
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>				
	<ul> <li>ISDN user part/BIC</li> </ul>	C indicator = ISDN user p	art not used all the way (0)		
	<ul> <li>ISDN access indica</li> </ul>	ator = terminating access r	non-ISDN (0)		
	<ul> <li>Echo control device</li> </ul>	e indicator = incoming ech	o control device not included (0).		
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → INVITE				
			← 100 Trying		
	ACM	<b>←</b>	← 181 Call is Being forwarded		
	Apply post test routine				

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 NO	PICS 6.2.4/2 AND NOT PICS 6.2.1/18		
Test Purpose name	183 received, coding of	of Backward call indicator in AC	CM 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 Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values	183: P-Early-Media: <backward authorized="" early="" media=""></backward>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	•	➤ INVITE  ← 100 Trying	
	ACM	<b>←</b>	► 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 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 AC	CM 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>	licator = no indication (00)	)	
	<ul> <li>End-to-end method indicate</li> </ul>	or = no end-to-end metho	od available (00)	
	<ul> <li>Interworking indicator = no interworking encountered (0)</li> </ul>			
	<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	rol device not included (0).	
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values	·			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	← 100 Trying			
	ACM ←	<b>←</b>	180 Ringing	
	Apply post test routine			

TP number	TP_203_018	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	181 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	a 181 Call is Being forwarded	response, an ACM is sent and the	
	Backward call indicator is	set to the following values:		
	<ul> <li>Charge indicator = ch</li> </ul>	arge (10)		
	<ul> <li>Called party's status i</li> </ul>	ndicator = no indication (00)		
		ry indicator = no indication (0	0)	
		ndicator = no end-to-end meth	•	
	<ul> <li>Interworking indicator = no interworking encountered (0)</li> </ul>			
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>			
		indicator = ISDN user part u	` '	
	•	r = terminating access ISDI	* * *	
		ndicator = incoming echo con	` ,	
ISUP Parameter values	IAM: Transmission Medium 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>	181 Call is Being forwarded	
		Apply post test rout		

TP number	TP_203_019	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/	_		
Test Purpose name			TMR 64 kBit/s unrestricted	
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted lAM 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 Deservation and the			rol device not included (0).	
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values	183:			
Comments	P-Early-Media: <backward authorized="" early="" media=""></backward>			
Message flows	ISUP MGCF Ma			
wiessaye nows	IAM → ACM ←	→ ← ←	Mg INVITE 100 Trying 183 Session Progress	
		Apply post test routing	ile .	

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 Backward 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 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	IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility= Facsimile Group 2/3			
SIP Parameter values		,		
Comments				
Message flows	ISUP MGCF Mg			
_	IAM → ACM ←	← 1	NVITE 00 Trying 80 Ringing	
		Apply post test routine		

TP number	TP_203_021	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria				
Test Purpose name	181 received, coding of Backward 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,		
	High Layer Compatibili	ty= Facsimile Group 2/3		
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	ACM ←	<b>←</b>	181 Call is Being forwarded	
		Apply post test routi	ne	

TP number	TP_203_022	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria				
Test Purpose name	183 received, coding	g of Backward 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 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)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility= Facsimile Group 2/3			
SIP Parameter values	183: P-Early-Media: <backward authorized="" early="" media=""></backward>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
	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			
		1101010100	Table 7.2.3.2.5.1.1			
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XMI	Mapping of PSTN XML ProgressIndicator 1 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 1 is mapped into the Backward call indicator present in the ACM:				
	ISDN User Part indica					
	<ul> <li>ISDN User Part no</li> </ul>	ot used all the way (0).				
ISUP Parameter values	ACM: ISDN User Par	, , ,				
	ISDN User	Part not used all the way				
SIP Parameter values	180:					
	xml version="1.0" e</th <th colspan="4"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator	ProgressIndicator				
	ProgressOctet3					
	CodingStan					
	ProgressOctet <sup>2</sup>	1				
	ProgressDe	escription>000001<				
Comments	Progress Information:	Progress Information: 'Call is not end-to-end ISDN: further call progress information may				
	be available in-band'.	be available in-band'.				
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	ACM ← 180 Ringing					
	Apply post test routine					

TP number	TP_203_024	Reference	7.2.3.2.5.1		
			Table 7.2.3.2.5.1.1		
TSS reference		ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name			Backward call indicator in ACM		
Test Purpose			KML ProgressIndicator is present,		
	the value 2 is mapped into the	Backward call indicator p	present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part used al</li> </ul>	I the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access nor</li> </ul>	n-ISDN (0).			
ISUP Parameter values	<b>ACM:</b> ISDN User Part indicate	•			
	ISDN User Part use	ed all the way			
	ISDN access indicator				
	Terminating acces	s non-ISDN			
SIP Parameter values	180:				
		<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	_ CodingStandard>00	<			
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		+	100 Trying		
	ACM <b>←</b>	<b>+</b>	180 Ringing		
	Apply post test routine				

TP number	TP_203_025	Reference	7.2.3.2.5.1		
			Table 7.2.3.2.5.1.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 7 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 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 ISD	N (1)			
	Interworking indicator				
	no interworking encount				
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	180:				
SIF Farameter values	xml version="1.0" encoding="utf-8"? PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	ProgressOctet4	0000444			
0	ProgressDescription				
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	A CNA	<b>+</b>	100 Trying		
	ACM ← 180 Ringing				
	Apply post test routine				

TP number	TP_203_026	Reference	7.2.3.2.5.1		
			Table 7.2.3.2.5.1.1		
TSS reference	ISUP-SIP/Basic call/Sending_c	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	ACM		optional Backward call indicator in		
Test Purpose			KML ProgressIndicator is present,		
	the value 8 is mapped into the		idicator present in the ACM:		
	Optional backward call indi In-band information indi				
		i or an appropriate patter	n is now available		
ISUP Parameter values	ACM: Optional backward call		II is now available.		
loor rarameter values	In-band information				
		ion or an appropriate pat	tern is now available"		
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<b>/</b> <			
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information 'In-band information or an appropriate pattern is now available'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<del>(</del>	100 Trying		
	ACM ← 180 Ringing				
	Apply post test routine				

TP number	TP_203_027	Reference	7.2.3.2.5.1		
			Table 7.2.3.2.5.1.1		
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 183 into	Backward call indicator in ACM		
Test Purpose			ne PSTN XML ProgressIndicator is		
	present, the value 1 is mapped	d into the Backward call ir	ndicator present 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 indicate	or			
	ISDN User Part no	t used all the way			
SIP Parameter values	183: P-Early-Media: sendon	ly			
	xml version="1.0" encoding:</p	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	ProgressOctet4				
	ProgressDescription				
Comments		not end-to-end ISDN: furth	ner call progress information may		
	be available in-band'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	183 Session Progress		
	Apply post test routine				

TP number	TP_203_028	Reference	7.2.3.2.5.1		
			Table 7.2.3.2.5.1.1		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name			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 mapped	into the Backward call in	ndicator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part used al</li> </ul>	I the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access nor</li> </ul>	n-ISDN (0).			
ISUP Parameter values	<b>ACM:</b> ISDN User Part indicate	or			
	ISDN User Part use	ed all the way			
	ISDN access indicator				
	Terminating acces				
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	ProgressOctet4				
	ProgressDescription				
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 routine				

TP number	TP_203_029	Reference	7.2.3.2.5.1	
			Table 7.2.3.2.5.1.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 7 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 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 interworking encount</li> </ul>	ered (0).		
ISUP Parameter values	ACM: ISDN User Part indicato			
	ISDN User Part used all the way			
	ISDN access indicator			
	Terminating access non-ISDN			
	Interworking indicator			
	no interworking encountered			
SIP Parameter values	183: P-Early-Media: sendonly  PSTN ProgressIndicator ProgressOctet3 CodingStandard>00< ProgressOctet4 ProgressDescription>0000111<			
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'			
Message flows	ISUP	MGCF	Mg	
	IAM →	<del>)</del>	INVITE	
		<del>(</del>	100 Trying	
	ACM ← 183 Session Progress			
	Apply post test routine			

TP number	TP_203_030	Reference	7.2.3.2.5.1	
			Table 7.2.3.2.5.1.1	
TSS reference	ISUP-SIP/Basic call/Sending_c	f_ACM/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 183 into Ba	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	into the Optional backware	d call indicator present in the	
	ACM:			
	Optional backward call indic			
	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 i	ndicators		
	In-band information	indicator		
	in-band informati	on or an appropriate patte	rn is now available"	
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00	<		
	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	
		<b>←</b>	100 Trying	
	ACM ←		183 Session Progress	
	Apply post test routine			

TP number	TP_203_031	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/			
Selection criteria					
Test Purpose name	Mapping of P-Early-Media hea	der in 183 into Optional b	ackward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183	Session Progress and th	e P-Early-Media header		
	authorizing backward early me	dia is mapped into the Ba	ckward call indicator present in the		
	ACM:				
	Optional backward call indi	cators			
	In-band information indi	cator			
		or an appropriate patterr	n is now available.		
ISUP Parameter values	ACM: Optional backward call indicators				
	In-band information indicator				
	in-band information or an appropriate pattern is now available"				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments	Progress Information 'In-band i	nformation or an appropr	iate pattern is now available'.		
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	← 100 Trying				
	ACM ← 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_of_ACM/				
Selection criteria					
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 i		non available.		
	In-band information indicator				
	in-band information or an appropriate pattern is now available"				
SIP Parameter values	181: P-Early-Media: sendonly				
Comments	Progress Information 'In-band i	nformation or an appropriate	pattern is now available'.		
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	← 100 Trying				
	ACM ←	<b>←</b> 18	1 Call is Being Forwarded		
	Apply post test routine				

TP number	TP_203_033	Reference	7.2.3.2.5.4		
ir number	11 _203_033	Kelerence	Table 7.2.3.2.5.4.1		
TSS reference	ISUP-SIP/Basic call/Send	ing of ACM/	Table 7.2.3.2.3.4.1		
Selection criteria	PICS 6.2.1/5	<u>g_o:_/(o/v//</u>			
Test Purpose name		rogressIndicator 1 in 180 i	nto the Access Transport Parameter		
Test Purpose			ΓN XML ProgressIndicator is present,		
l cot i di poso	the value 1 is mapped into	the Access Transport Pa	rameter containing the Progress		
	Indicator value 1 in the AC		marrieter certaining the ringress		
	Access Transport Parame	eter			
	Progress Indicator				
		cription='0000001'.			
ISUP Parameter values	ACM: Access Transport	-			
	Progress Indica	ator			
	Progress De	escription='0000001'			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandar	d>00<			
	ProgressOctet4				
		iption>000001<			
Comments		Il is not end-to-end ISDN:	further call progress information may		
	be available in-band'.				
Message flows	ISUP	MGCF	Mg		
	IAM -	<b>→</b>	→ INVITE		
		_	← 100 Trying		
	ACM	•	← 180 Ringing		
	Apply post test routine				

TP number	TP_203_034	Reference	7.2.3.2.5.4		
			Table 7.2.3.2.5.4.1		
TSS reference	ISUP-SIP/Basic call/Sending_c	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 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 2 is mapped into the	Access Transport Paramete	er containing the Progress		
	Indicator value 2 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description='0</li> </ul>	000010'.			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000010'			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	ProgressOctet4				
	ProgressDescription	>000010<			
Comments	Progress Information: 'Destinat				
Message flows	ISUP	MGCF	Mg		
	IAM →	→ II	NVITE		
			00 Trying		
	ACM ←	· · · · · · · · · · · · · · · · · · ·	80 Ringing		
	Apply post test routine				
	Apply poor tool routing				

TP number	TP 203 035	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	PSTN XML ProgressIndicator	7 in 180 is not mapped into	the Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 180	Ringing and the PSTN XN	/IL ProgressIndicator is present,		
	the value 7 is not mapped into	the Access Transport Para	meter in the ACM.		
ISUP Parameter values	ACM: No Access Transport Pa	arameter present			
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>			
	PSTN				
	ProgressIndicator	ProgressIndicator			
	ProgressOctet3	ProgressOctet3			
	CodingStandard>00<				
	ProgressOctet4				
	ProgressDescription>0000111<				
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_036	Reference	7.2.3.2.5.4			
			Table 7.2.3.2.5.4.1			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 180 into th	e Access Transport Parameter			
Test Purpose			AL ProgressIndicator is present,			
	the value 8 is mapped into the	Access Transport Parame	ter containing the Progress			
	Indicator value 8 in the ACM:					
	Access Transport Parameter					
	Progress Indicator					
	<ul> <li>Progress Description</li> </ul>	on='0001000'.				
ISUP Parameter values	ACM: Access Transport					
	Progress Indicator					
	Progress Descri	otion='0001000'				
SIP Parameter values	180:	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00	<				
	ProgressOctet4					
	ProgressDescription					
Comments	Progress Information 'In-band i	nformation or an appropria	ate 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				

TP number	TP_203_037	Reference	7.2.3.2.5.4				
			Table 7.2.3.2.5.4.1				
TSS reference	ISUP-SIP/Basic call/S	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 XN	IL ProgressIndicator 1 in 183	into the Access Transport Parameter				
Test Purpose			and the P-Early-Media header and PSTN				
	XML ProgressIndicat	or is present, the value 1 is n	napped into the Access Transport				
	Parameter containing	the Progress Indicator value	e 1 in the ACM:				
	Access Transport Pa	rameter					
	Progress Indicato	r					
	<ul> <li>Progress Des</li> </ul>	cription='0000001'.					
ISUP Parameter values	ACM: Access Trans	ACM: Access Transport					
	Progress I	ndicator					
	Progre	ss Description='0000001'					
SIP Parameter values	183: P-Early-Media	a: sendonly					
	xml version="1.0" (</th <th>encoding="utf-8"?&gt;</th> <th></th>	encoding="utf-8"?>					
	PSTN						
	ProgressIndicator	•					
	ProgressOcte	t3					
		indard>00<					
	ProgressOcte						
	ProgressD	escription>000001<					
Comments	Progress Information	: 'Call is not end-to-end ISDN	l: further call progress information may				
	be available in-band'.						
Message flows	ISUP	MGCF	Mg				
	IAM	<b>→</b>	→ INVITE				
			← 100 Trying				
	ACM	<b>←</b>	← 183 Session Progress				
		Apply post test					

TP number	TP_203_038	Reference	7.2.3.2.5.4		
			Table 7.2.3.2.5.4.1		
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	Mapping of PSTN XML Progres	ssIndicator 2 in 183 into t	the Access Transport Parameter		
Test Purpose			ne P-Early-Media header and PSTN		
	XML ProgressIndicator is prese				
	Parameter containing the Prog	ress Indicator value 2 in t	the ACM:		
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description='0</li> </ul>	000010'.			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000010'			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	ProgressÖctet4				
	ProgressDescription	>000010<			
Comments	Progress Information: 'Destination address is non-ISDN'.				
Message flows	ISUP	MGCF	Mg		
_	IAM →	<b>→</b>	INVITE		
		<b>+</b>	100 Trying		
	ACM ←	<b>+</b>	183 Session Progress		
	Apply post test routine				

TP number	TD 202 020	Reference	7.2.3.2.5.4				
	TP_203_039		1.2.3.2.3.4				
TSS reference	ISUP-SIP/Basic call/Sending_c	·f_ACM/					
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	e					
Test Purpose name	PSTN XML ProgressIndicator 7	in 183 is not mapped into	the Access Transport Parameter				
Test Purpose			PSTN XML ProgressIndicator is				
	present, the value 7 is not map	ped into the Access Transp	oort Parameter in the ACM.				
ISUP Parameter values	ACM: No Access Transport Pa	arameter present					
SIP Parameter values	183: P-Early-Media: sendonly	/					
	xml version="1.0" encoding=</th <th colspan="6"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?					
	PSTN						
	ProgressIndicator						
	ProgressOctet3						
	CodingStandard>00<						
	ProgressOctet4						
	ProgressDescription	>0000111<					
Comments	Progress Information: value no	t specified. Meaning 'termir	nating user is ISDN'.				
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	NVITE				
		<b>←</b> 1	00 Trying				
	ACM ←	<b>←</b> 1	83 Session Progress				
		Apply post test routine					

TP number	TP_203_040	Reference	7.2.3.2.5.4		
			Table 7.2.3.2.5.4.1		
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	Mapping of PSTN XML Progres	ssIndicator 8 in 183 into t	he Access Transport Parameter		
Test Purpose			ne P-Early-Media header and PSTN		
	XML ProgressIndicator is prese				
	Parameter containing the Prog	ress Indicator value 8 in t	he ACM:		
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description</li> </ul>	n='0001000'.			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0001000'			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information 'In-band information or an appropriate pattern is now available'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<del>-</del>	100 Trying		
	ACM ←	<b>←</b>	183 Session Progress		
		Apply post test routing	ne		

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

TP number	TP_204_001	Reference	7.2.3.2.6.0
TSS reference	ISUP-SIP/Basic call/Sending	_of_CPG/	
Selection criteria			
Test Purpose name	A CPG is sent when a 180 is	received and an ACM was sent	before
Test Purpose	Ensure that on receipt of a 18	30 Ringing a CPG message is so	ent when an ACM was sent
	before.		
ISUP Parameter values	ACM: BCi Called party status	s=no indication	
	CPG: Event indication=ALER	RTING	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	T i/w1 started	
	ACM <b>←</b>	T i/w1 expired → INV	ITE
		<b>←</b> 100	Trying
	CPG ←	<b>←</b> 180	Ringing
		Apply post test routine	

TP number	TP_204_002	Reference	7.2.3.2.6.0			
TSS reference	ISUP-SIP/Basic call/Sending_	of_CPG/				
Selection criteria						
Test Purpose name	181 received, CPG is sent					
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=progre	ess				
SIP Parameter values	181: P-Early-Media: sendor	nly				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM <b>←</b>	<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		7.2.3.2.6.0		
TSS reference	ISUP-SIP/Basic	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria							
Test Purpose name	Early media is n	ot authorized	l if no P-Early-Medi	ia heade	er is present in the 180	)	
Test Purpose	a P-Early-Media	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-Ear	ly-Media hea	der present				
Comments							
Message flows	ISUP IAM	<b>→</b>	MGCF T i/w1 started		Mg		
	ACM CPG	← ← ringing to	T i/w1 expired  ne  Apply post te	→ ←	INVITE 180 Ringing		

TP number	TP_204_004	Reference	7.2.3.2.6
TSS reference	ISUP-SIP/Basic call/Sen	ding_of_CPG/	·
Selection criteria			
Test Purpose name	Early media is not author 180	rized if P-Early-Media head	ler does not authorize early media in the
Test Purpose			ent. If the 180 Ringing contains a the SUT initiates sending of awaiting
ISUP Parameter values			
SIP Parameter values	180: P-Early-Media: in	active	
Comments			
Message flows	ISUP IAM	MGCF → T i/w1 started	Mg
	ACM CPG ringin	← T i/w1 expired ← g tone	→ INVITE ← 180 Ringing
		Apply post test r	outine

TP number	TP_204_005		Reference	7.2.3.2.6.0		
TSS reference	ISUP-SIP/Basic call/Send	ding_o	f_CPG/			
Selection criteria						
Test Purpose name	Early media is authorized	l if P-E	arly-Media header autho	rize early media in the 180		
Test Purpose	P-Early-Media header aut	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: sei	ndonly	,			
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM ·	<b>→</b> T	i/w1 started			
		<b>←</b> ⊺	i/w1 expired →	INVITE 180 Ringing		
	early media		Apply post test routing	early media ne		

TP number	TP_204_006		Reference		7.2.3.2.6.0
TSS reference	ISUP-SIP/Basic call/Ser	nding_o	of_CPG/		
Selection criteria	PICS 6.2.1/14				
Test Purpose name	The SUT has the knowle answer indication is not	_		ed to	a PSTN network, the awaiting
Test Purpose					swer indication if it has the local and the early media is not
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	ISUP		MGCF		Mg
	IAM	<b>→</b>	T i/w1 started		
	ACM	<b>←</b>	T i/w1 expired	<b>→</b>	INVITE 100 Trying
	CPG early media	<b>←</b>		+	180 Ringing early media
			Apply post test	routi	ne

TP number	TP_204_007	Reference		7.2.3.2.6.0			
TSS reference	ISUP-SIP/Basic call/Ser	nding_of_CPG/					
Selection criteria							
Test Purpose name	Early media is authorize	ed if P-Early-Media head	ler autho	rize early media in the 183			
Test Purpose	Ensure that on receipt of a 183 Session Progress a CPG is sent. If the 183 Session Progress contains a P-Early-Media header authorizing early media, the SUT terminates sending of awaiting answer indication and connects through the early media in backward direction.						
ISUP Parameter values							
SIP Parameter values	183: P-Early-Media: s	endonly					
Comments							
Message flows	ISUP	MGCF		Mg			
	IAM	<b>→</b>	<b>→</b>	INVITE			
	ACM	<b>←</b>	<b>←</b>	180 Ringing			
	CPG	3 3					
	early media	· ·					
		Apply post te	st routin	ne			

TP number	TP_204_008	I	Reference	7.2.3.2.6.0			
TSS reference	ISUP-SIP/Basic call/S	ending_of	_CPG/				
Selection criteria							
Test Purpose name	Early media is authori	zed if P-Ea	arly-Media header autho	orize 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:	sendonly					
Comments							
Message flows	ISUP		MGCF	Mg			
	IAM	<b>→</b>	<b>→</b>	INVITE			
	ACM	<b>←</b>	<b>←</b>	180 Ringing			
	CPG						
	early media early media						
	Apply post test routine						

TP number	TP_204_	009	Reference	7.2.3.2.6.0	
TSS reference	ISUP-SIF	P/Basic call/Sending_o	f_CPG/	·	
Selection criteria					
Test Purpose name	The SUT received	•	tion of early media as in	dicated in the P-Early-Media	
Test Purpose	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		-Early-Media: inactive -Early-Media: sendonly	/		
Comments		,			
Message flows		ISUP	MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	183 Session Progress	
	ringing tone				
	CPG	<b>+</b>	<b>←</b>	180 Ringing	
	early media early media				
		·	Apply post test rout	ine	

TP number	TP_204_010	Reference		7.2.3.2.6.0		
TSS reference	ISUP-SIP/Basic	call/Sending_of_CPG/				
Selection criteria						
Test Purpose name	The SUT change received in 180	e the authorization of early m	edia as indicat	ted in the P-Early-Media		
Test Purpose	authorization of	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		/ledia: sendonly /ledia: inactive				
Comments						
Message flows	ISUP IAM ACM early	MGCF  → ← media ← ringing tone Apply post	<b>←</b> 18	Mg VITE 33 Session Progress early media 30 Ringing		
		Apply post	test routine			

TP number	TP_204_010A	Reference	7.2.3.2.6.1			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/				
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Reason header received in 183	B is mapped into Cause in	dicator parameter in CPG			
Test Purpose			ning a Reason header a CPG is			
			parameter in the CPG is set to the			
	value of the cause parameter of	of the Reason header in th	e received 183 Session Progress.			
ISUP Parameter values	CPG: Event indicators					
	in-band info or appro	opriate pattern now availal	ble			
	Cause indicators					
	Cause value					
	[cause value]	[cause value]				
SIP Parameter values	183:					
	Reason: Q850;cause=[cause value]					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	CPG ←	<b>←</b>	183 Session Progress			
		Apply post test routin	e			

TP number	TP_204_011	Reference	7.2.3.2.6.1			
			Table 7.2.3.2.6.1.1			
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 1 in 183 into ATP	in the CPG			
Test Purpose	Ensure that on receipt of a PST Progress, a CPG is sent and a					
	Progress Indicator #1.					
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
	Progress Descrip	otion='0000001'				
SIP Parameter values	183:					
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>000001<				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→ IN	VITE			
	ACM ←	<b>←</b> 18	0 Ringing			
	CPG ←		3 Session Progress			
		Apply post test routine				

TP number	TP_204_012	Reference	7.2.3.2.6.1				
			Table 7.2.3.2.6.1.1				
TSS reference	ISUP-SIP/Basic call/Sending_c	f_CPG/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 183 into ATP	in the CPG				
Test Purpose	Ensure that on receipt of a PS	N XML ProgressIndicator val	ue 2 in a 183 Session				
	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:						
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>					
	PSTN	PSTN					
	ProgressIndicator						
	ProgressOctet4	ProgressOctet4					
	ProgressDescription	>000010<					
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b> IN\	/ITE				
	ACM ←	<b>←</b> 180	Ringing Ringing				
	CPG ←	<b>←</b> 183	Session Progress				
	Apply post test routine						

TP number	TP 204 013	Reference	7.2.3.2.6.1				
Tr Hamber	11 _204_013	Kelelelice	Table 7.2.3.2.6.1.1				
TSS reference	ISUP-SIP/Basic call/Se	ending of CPG/	Table 1.2.3.2.0.1.1				
Selection criteria	PICS 6.2.1/5	riding_or_or o/					
Test Purpose name		ProgressIndicator 4 in 183	into ATP in the CPG				
Test Purpose			dicator value 4 in a 183 Session				
			Parameter is present containing a				
	Progress Indicator #4.	·	,				
ISUP Parameter values	CPG: Access Transpo	ort					
	Progress inc						
	Progress	Description='0000100'					
SIP Parameter values	180:						
	xml version="1.0" en</th <th>coding="utf-8"?&gt;</th> <th></th>	coding="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
		scription>000001<					
	Or Progress Dog	scriptions 0000010					
	1 Togressbes	ProgressDescription>0000010<					
	183:						
	xml version="1.0" en</th <th>coding="utf-8"?&gt;</th> <th></th>	coding="utf-8"?>					
	PSTN	iodanig att o .>					
	ProgressIndicator						
	ProgressOctet4						
	ProgressDes	scription>0000100<					
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM	<b>→</b>	→ INVITE				
	ACM	<b>←</b>	← 180 Ringing				
	CPG	<b>←</b>	<ul> <li>183 Session Progress</li> </ul>				
		Apply post test i	routine				

TP number	TP_204_014	Reference	7.2.3.2.6.1			
			Table 7.2.3.2.6.1.1			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	No mapping of PSTN XML Pro	gressIndicator 7 in 183 into	ATP in the CPG			
Test Purpose	Ensure that on receipt of a PST					
	Progress, a CPG is sent and a	n Access Transport Parame	eter is present containing a			
	Progress Indicator #4.					
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
	Progress Descrip	otion='0000100'				
SIP Parameter values	180:					
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
	or D					
	ProgressDescription>0000010<					
	183:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN	- uti-0 !>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>0000111<				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b> II	NVITE			
	ACM ←	<b>←</b> 1	80 Ringing			
	CPG <b>←</b>		83 Session Progress			
	Apply post test routine					

TP number	TP 204 015	Reference	7.2.3.2.6.1			
			Table 7.2.3.2.6.1.3			
TSS reference	ISUP-SIP/Basic call/Sending	_of_CPG/	•			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 8 in 183 into E	Event information in the CPG			
Test Purpose	Ensure that on receipt of a Page 1					
	Progress, a CPG is sent and	Event information paramet	er is set to 'In-band information or			
	appropriate pattern is now av					
ISUP Parameter values	CPG: Event information= In-	band information or approp	oriate pattern is now available			
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	PSTN				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	on> <b>0001000</b> <				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	CPG ←	<b>←</b>	183 Session Progress			
	Apply post test routine					

TP number	TP 204 017	Reference	7.2.3.2.6.1		
			Table 7.2.3.2.6.1.1		
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 1 in 180 into ATP ir	the CPG		
Test Purpose	Ensure that on receipt of a PST	TN XML ProgressIndicator valu	e 1 in a 180 Ringing, a CPG		
	is sent and an Access Transpo	rt Parameter is present contair	ning 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 →	T i/w1 started			
	ACM ←	Γ i/w1 expired → INVI	TE		
	CPG ←	•	Ringing		
		Apply post test routine	· ·····g·· · · ·		

TP number	TP 204 018	Reference	7.2.3.2.6.1			
	20010	1.0.0.0.0	Table 7.2.3.2.6.1.1			
TSS reference	ISUP-SIP/Basic call/Sei	nding of CPG/	Table F.E.G.E.G.TT			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML	ProgressIndicator 2 in 18	30 into ATP in the CPG			
Test Purpose			Indicator value 2 in a 180 Ringing, a CPG			
-			esent containing a Progress Indicator #2.			
ISUP Parameter values	CPG: Access Transpor	rt				
	Progress Ind	icator				
	Progress	Description='0000010'				
SIP Parameter values	180:					
		xml version="1.0" encoding="utf-8"?				
	PSTN					
		ProgressIndicator				
		ProgressOctet4				
	ProgressDes	ProgressDescription>0000010<				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	→ T i/w1 started				
	ACM	← T i/w1 expired	→ INVITE			
	CPG	<del>(</del>	← 180 Ringing			
	Apply post test routine					

TP number	TP_204_019	Reference	7.2.3.2.6.1			
			Table 7.2.3.2.6.1.1			
TSS reference	ISUP-SIP/Basic call/Sending	_of_CPG/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name		ressIndicator 4 in 180 into AT				
Test Purpose			value 4 in a 180 Ringing a CPG			
		port Parameter is present con	taining a Progress Indicator #4.			
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
		cription='0000100'				
SIP Parameter values	183:					
	xml version="1.0" encodin</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescripti	on> <b>0000001</b> <				
	or	0000010				
	ProgressDescripti	ProgressDescription>0000010<				
	180:					
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescripti	on> <b>000100</b> <				
Comments	1 109/1002 000/100					
Message flows	ISUP MGCF Mg					
3	IAM →		NVITE			
	ACM <b>←</b>	<b>←</b> 1	83 Session Progress			
	CPG ←		80 Ringing			
	Apply post test routine					
	1	11.71				

TP number	TP 204 020	Reference	7.2.3.2.6.1
			Table 7.2.3.2.6.1.1
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	No mapping of PSTN XML ProgressIndicator 7 in 180 into ATP in the CPG		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 180 Ringing, a Clis sent and an Access Transport Parameter is present containing a Progress Indicator a		
ISUP Parameter values	CPG: Access Transport Progress Indicator Progress Description='0000100'		
SIP Parameter values	183: xml version="1.0" encoding="utf-8"? PSTN		
	ProgressIndicator		
	ProgressOctet4 ProgressDescription>0000001< or ProgressDescription>0000010<  180: xml version="1.0" encoding="utf-8"? PSTN		
	ProgressIndicator		
	ProgressOctet4 ProgressDescription>0000111<		
Comments	1119.000		
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	183 Session Progress
	CPG ←	<b>←</b>	180 Ringing
		Apply post test routing	5 5

TP number	TP_204_021	Reference	7.2.3.2.6.1			
			Table 7.2.3.2.6.1.3			
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 180 into Event	information in the CPG			
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator valu	ie 8 in a 180 Ringing, a CPG			
	is sent and Event information p	arameter is set to 'In-band info	rmation or appropriate			
	pattern is now available'.					
ISUP Parameter values	<b>CPG:</b> Event information= In-ba	and information or appropriate	pattern is now available			
SIP Parameter values	180:					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4	ProgressOctet4				
	ProgressDescription>0001000<					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	Γ i/w1 started				
	10014	T://.d:	T-			
		Γi/w1 expired → INVI				
	CPG ←		Ringing			
		Apply post test routine				

TP number	TP_204_023		Reference		7.2.3.2.7		
TSS reference	ISUP-SIP/Basic cal	II/Sending	_of_CPG/		·		
Selection criteria							
Test Purpose name	Mapping of P-Early	-Media he	ader into Event info	ormatio	n parameter in CPG		
Test Purpose	authorizing early m	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 inform	nation= In-	-band information o	r appro	priate pattern is now available		
SIP Parameter values	183: P-Early-Med	lia: sendo	nly				
Comments							
Message flows	ISUP IAM ACM CPG	<b>→</b> <b>←</b>	MGCF T i/w1 started T i/w1 expired Apply post tes	<b>←</b>	183 Session Progress		

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 Back	ward call indicator in CPG T	MR speech or 3,1 kHz audio		
Test Purpose	IAM with Transmission Mediu Ensure that on receipt of a 18 indicator is set to the followin  Charge indicator = charge Called party's status indi Called party's category ii End-to-end method indice Interworking indicator = i End-to-end information ii ISDN user part/BICC indicator = ISDN access indicator =	Im Requirement indicator=s  80 Ringing response, a CPG g values:	d available (00)  ormation available (0)  used all the way (0)  N (0)		
ISUP Parameter values		Requirement indicator=spe	ech or 3,1 kHz		
	ACM: Backward call indicate	· <del>-</del> ·			
	Called party's state	us indicator = no indication			
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	T i/w1 started			
	ACM ← CPG ←	<b>+</b>	INVITE 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					
Test Purpose name	180 received, coding of Backy	vard 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, 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=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 →	T i/w1 started				
	ACM ← CPG	T i/w1 expired → INV ← 180 Apply post test routine	ITE Ringing			

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 Back	ward call indicator in CPG TN	/IR 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, 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 = 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 indicate					
CID Devementes values	Called party's stati	us indicator = no indication				
SIP Parameter values						
Comments Message flows	ISUP	MGCF	Ma			
Message flows	IAM +	T i/w1 started	Mg			
	IAW	i i/w i started				
	ACM ← CPG ←	· · · · · · · · · · · · · · · · · · ·	NVITE 80 Ringing			
		Apply post test routille				

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 Backw	ard 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						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	T i/w1 started				
	ACM ← CPG		/ITE D Ringing			

# 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/S	ISUP-SIP/Basic call/Sending of ANM/						
Selection criteria								
Test Purpose name	Sending of ANM whe	n 200 OK INVITE was re	eceived					
Test Purpose		eipt of the first 200 OK (I een sent, the SUT sends		the Address Complete Message				
ISUP Parameter values	(r.c) Has all sady as							
SIP Parameter values								
Comments								
Message flows	ISUP	MGCF		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				
		Apply post	test routi	ne				

TP number	TP 205 002	Reference	7.2.3.2.8			
TSS reference	ISUP-SIP/Basic call/Sending					
Selection criteria	NOT PICS 6.2.1/18					
Test Purpose name		Backward call indicator in A	NM TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Mediu					
	Ensure that on receipt of a 20					
	Backward call indicator is set		,			
	<ul> <li>Charge indicator = charge</li> </ul>					
	_	cator = no indication (00)				
		ndicator = no indication (00	)			
		cator = no end-to-end metho	•			
		interworking encountered (	` '			
	•	ndicator = no end-to-end in	•			
		licator = ISDN user part not	` '			
		terminating access non-IS				
		cator = Incoming echo cont				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz					
	ACM: Backward call indicator					
	Called party's stat	us indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendo	nly				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	T i/w1 started				
	ACM ← T i/w1 expired → INVITE					
	← 183 Session Progress					
	ANM ←	<b>←</b>	200 OK (INVITE)			
		<b>→</b>	ACK			
		Apply post test routing	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 Ba	ackward 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 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		Requirement indicator=64	kBit/s unrestricted			
	ACM: Backward call indicator					
		s indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendon	nly				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	T i/w1 started				
	ACM ← T i/w1 expired → INVITE ← 183 Session Progress					
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK			
		Apply post test routi	ne			

TP number	TP_205_004	Reference	7.2.3.2.8					
TSS reference	ISUP-SIP/Basic call/Sen	ISUP-SIP/Basic call/Sending_of_ANM/						
Selection criteria	PICS 6.2.4/2 AND PICS	PICS 6.2.4/2 AND PICS 6.2.1/18						
Test Purpose name	200 OK received, coding	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 = no interworking encountered (0)  • End-to-end information indicator = no end-to-end information available (0)  • ISDN user part/BICC indicator = ISDN user part used all the way (1)  • ISDN access indicator = terminating access ISDN (1)							
ISUP Parameter values	IAM: Transmission Me ACM: Backward call inc	Echo control device indicator = Incoming echo control device not included (0).  IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted  ACM: Backward call indicator  Called party's status indicator = no indication						
SIP Parameter values	183: P-Early-Media: se							
Comments		•						
Message flows	ISUP IAM	MGCF → T i/w1 started	Mg					
	ACM ← T i/w1 expired → INVITE ← 183 Session Progress							
	ANM	<b>←</b>	<ul><li>← 200 OK (INVITE)</li><li>→ ACK</li></ul>					
	Apply post test routine							

TP number	TP_205_005	Reference	7.2.3.2.8			
TSS reference	ISUP-SIP/Basic call/S	Sending_of_ANM/				
Selection criteria						
Test Purpose name	200 OK received, cod	ling of Backward call indicator	r 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 = 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	183: P-Early-Media					
Comments		•				
Message flows	ISUP IAM	MGCF → T i/w1 started	Mg			
	ACM ← T i/w1 expired → INVITE ← 183 Session Progress					
	ANM	<b>←</b>	← 200 OK (INVITE) → ACK			
		Apply post test	routine			

TP number	TD 205 006	Reference		7.2.3.2.9.2		
	TP_205_006		<del>U</del>	1.2.3.2.9.2		
TSS reference		II/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN 2	XML ProgressIndicator	1 in 200 OK	into ATP in the ANM		
Test Purpose	Ensure that on rece	eipt of a PSTN XML Pr	ogressIndicat	or value 1 in a 200 OK INV	ITE, an	
	ANM is sent and ar	n Access Transport Pa	rameter is pre	esent containing a Progress	3	
	Indicator #1.	•	-			
ISUP Parameter values	ANM: Access Tran	nsport				
		s Indicator				
		ress Description='000	0001'			
SIP Parameter values	200 OK:	•				
	xml version="1.0</th <th>" encoding="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	" encoding="utf-8"?>				
	PSTN	g				
	ProgressIndicat	tor				
	ProgressOc					
		sDescription>0000001	<			
Comments						
Message flows	ISUP	MGO	F	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
		-	<b>É</b>	100 Trying		
	ACM	<b>←</b>	÷			
	ACM ← 180 Ringing					
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)		
	,	•	À	ACK		
		Annly r	ost test rout			
			oot toot rout			

TP number	TP_205_007	Refe	erence	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					
Test Purpose name	Mapping of PSTN X	(ML ProgressInd	icator 2 in 200 OK i	into ATP in the ANM		
Test Purpose				or value 2 in a 200 OK INVITE, an esent containing a Progress		
ISUP Parameter values	ANM: Access Tran					
		Indicator ress Description:	='000010'			
SIP Parameter values	200 OK:	CCC ECOONPRIONS	- 0000010			
	xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4					
Comments	1 Togress	Description>000	10010<			
Message flows	ISUP IAM ACM	<b>→</b>	MGCF → ←	Mg INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>	← → oply post test routi	200 OK (INVITE) ACK ine		

TP number	TP_205_008	Referei	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 XMI				
Test Purpose				r value 4 in a 200 OK INVITE, an	
	ANM is sent and an Ad	ccess Transport I	Parameter is pres	ent containing a Progress	
	Indicator #4.				
ISUP Parameter values	ANM: Access Transp				
	Progress In				
		s Description='00	000100'		
SIP Parameter values	200 OK:				
	xml version="1.0" e</th <th>ncoding="utf-8"?:</th> <th>&gt;</th> <th></th>	ncoding="utf-8"?:	>		
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
-	ProgressDe	escription>00001	00<		
Comments					
Message flows	ISUP		GCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	ACM	<b>←</b>	+	180 Ringing	
			-	000 014 (111) (175)	
	ANM	<b>←</b>	<del>(</del>	200 OK (INVITE)	
			<b>→</b>	ACK	
		Apply	post test routir	ne	

TP number	TP_205_009	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 Prog	ressIndicator 5 in 200 OK i	nto ATP in the ANM			
Test Purpose			or value 5 in a 200 OK INVITE, an			
	ANM is sent and an Access	Transport Parameter is pre	sent containing a Progress			
	Indicator #5.					
ISUP Parameter values		Hz audio, USI prime=unrest				
		red, TMR prime = speech o	or 3,1 kHz audio			
	ANM: Access Transport					
	Progress Indicato					
		cription='0000101'				
SIP Parameter values	200 OK:					
	xml version="1.0" encoding</th <th>ıg="utf-8"?&gt;</th> <th></th>	ıg="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescript	on> <b>0000101</b> <				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
			000 014 (INN (ITE)			
	ANM ←	<del>(</del>	200 OK (INVITE)			
		<b>→</b>	ACK			
		Apply post test routi	ne			

TP number	TP 205 010		Reference		7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic cal	I/Sending of	ANM/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name		N XML Proa	ressIndicator 7 in	n 200 (	OK into ATP in the ANM		
Test Purpose		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 B	Indicator #7. The Backward call indicator is set to the following values:					
	ISDN User Part	indicator			•		
	ISDN User I	Part used all	the way				
	ISDN access in						
	Terminating	g access ISE	N				
	Interworking ind						
		king encour					
ISUP Parameter values	ANM: Access Tran		esent				
	Backward ca						
		er Part indica					
		ISDN User Part used all the way					
		cess indicato	•				
		inating acco					
		king indicator					
SIP Parameter values	200 OK:	terworking	encountered				
SIP Parameter values		" opooding "	utf o"Os				
	xml version="1.0<br PSTN	encoding=	uli-o ?>				
	ProgressIndicat	or					
	ProgressOc						
		Description>	.0000111<				
Comments	i rogross	2 CCC I PRIOTIF					
Message flows	ISUP		MGCF		Mg		
	IAM	<b>→</b>		<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	ACM	<b>←</b>		<del>-</del>	180 Ringing		
					3 3		
	ANM	<b>←</b>		<b>←</b>	200 OK (INVITE)		
				<b>→</b>	ACK		
			Apply post tes	st routi	_		

TP number	TP_205_011	Refer	ence	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 HighLayerCor	npatibility in 200 OK	( into ATP in ANM			
Test Purpose				IL HighLayerCompatibility			
				ort Parameter is present			
			E and the value is se	et to the value HLC_VA as			
10110	indicated in table 6						
ISUP Parameter values	ANM: Access Tra	•					
		ver compatibility	o identification LI	C VA			
SIP Parameter values	200 OK:	i layer characteristi	cs identification = HI	LC_VA			
Sir rarameter values	PSTN XML MIME	hody					
		D" encoding="utf-8"	?>				
	PSTN	o oncounige an o					
	HighLayerCom	patibility					
	HLOctet3						
	Codings	Standard>00<					
	Interpretation>100<						
		ationMethod>01<					
	HLOctet4						
Comments	HighLay	/erCharacteristics>l	HLC_VA<				
Message flows	ISUP		MGCF	Mq			
wessage nows	IAM	<b>→</b>		NVITE			
	IAW	7	-	100 Trying			
	ACM	<b>←</b>	<del>-</del>	180 Ringing			
	AOIVI	•	•	100 Kinging			
	ANM	<b>←</b>	<b>←</b> :	200 OK (INVITE)			
		-		ACK			
		App	ly post test routine				

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

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

TP number	TP_205_012	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 B	earerCapability 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		
		and an Access Transport Para			
		the value is set to the value IT	C_value as indicated in table		
	6.1.2.5-1.				
ISUP Parameter values		l kHz audio, USI prime=unrest			
		eferred, TMR prime = speech of	or 3,1 kHz audio		
	ANM: Access Transport				
	Bearer Capabi				
OID Description		Transfer Capability = ITC_va	lue		
SIP Parameter values	200 OK:	diam live OIIO			
	xml version="1.0" enco</th <th>ding= uti-8 ?&gt;</th> <th></th>	ding= uti-8 ?>			
	PSTN PagrarCapability				
	BearerCapability BCoctet3				
	CodingStanda	rd>00<			
		nsferCapability> ITC_value <			
	BCoctet4	risieroapability> 11 0_value <			
	TransferMode	>00<			
		nsferRate>10000<			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM	<del>+</del> +	180 Ringing		
	ANM	<b>+ +</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routi	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	е	7.2.3.2.9.3		
TSS reference	ISUP-SIP/Basic call/	/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML BearerCapability into Transmission medium used parameter					
Test Purpose	Ensure that on receipt of a PSTN XML BearerCapability element in a 200 OK INVITE a Transmission Medium Used parameter is present in the sent ANM message. The value of the PSTN XML InformationTransferCapability value TMU_VA_BC is mapped into the value of the Transmission Medium Used parameter TMU_VA_TMU as described in table 6.1.2.5-3.					
ISUP Parameter values		or 3,1 kHz audio, US	l prime=unrest	tricted digital info with T/A,		
		t/s preferred, TMR pri				
SIP Parameter values	INVITE:	_11110				
	<pre><?xml version="1.0" PSTN     BearerCapability     BCoctet3         CodingSt:         Informatio   BearerCapability     BCoctet3         CodingSt:         Informatio   200 OK:     <?xml version="1.0" PSTN     BearerCapability     BCoctet3         CodingSt:         CodingSt:</th><th>andard&gt;00&lt; onTransferCapability: andard&gt;00&lt; onTransferCapability: onTransferCapability: encoding="utf-8"?&gt;</th><th>-mapped from</th><th>USI prime&lt;</th></pre>	andard>00< onTransferCapability: andard>00< onTransferCapability: onTransferCapability: encoding="utf-8"?>	-mapped from	USI prime<		
Comments						
Message flows	ISUP	MG		Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<del>(</del>	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE) ACK		
	Apply post test routine					

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' or 'speech'		
NOTE 1: The value of 'UDITA' is sent when fallback does not occur.				
NOTE 2: The ab	sence of a PSTN XML attachment indicates that a non IS	DN destination is reached.		

# 6.1.2.6 Sending of the Connect message (CON)

TP number	TP_206_001	Re	eference	7.2.3.2.11
TSS reference	ISUP-SIP/Basic call	/Sending_of_0	CON/	·
Selection criteria				
Test Purpose name	Sending of CON me	essage after 20	00 OK was received	
Test Purpose	Ensure that on rece	ipt of a 200 Ol	K INVITE and no ACM	I was sent, a CON message is sent.
ISUP Parameter values				
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)
			<b>→</b>	ACK
			Apply post test routi	ne

TP number	TP_206_002	Reference	7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic call/Sending of CON/				
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name	200 OK received, coding of Ba	ackward 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	s indicator = no indication			
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<del>(</del>	100 Trying		
	CON ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_206_003	Ref	erence	7.2.3.2.11.1	
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_CON/			
Selection criteria	PICS 6.2.4/2 AND	NOT PICS 6.2.1	/18		
Test Purpose name	200 OK received,	coding of Backwa	ard call indicator in C	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	<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_004	Reference	7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_CON/	•		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/				
Test Purpose name	200 OK received, coding of Ba	ckward call indicator in ANM 7	MR 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 = 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 → CON ←		Trying OK (INVITE)		
		Apply post test routine			

TP number	TP_206_005	Reference	7.2.3.2.11.1	
TSS reference	ISUP-SIP/Basic call/Sending	of_CON/		
Selection criteria				
Test Purpose name	200 OK received, coding of B	ackward call indicator in C	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, 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=3,1 kHz High Layer Compatibility= Facsimile Group 2/3 CON: Backward call indicator Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b>	INVITE 100 Trying	
	CON	<b>←</b> →	200 OK (INVITE) ACK	
		Apply post test routi	ne	

TP number	TP 206 006	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	Mapping of PSTN XML Progre	ssIndicator 1 in 200 OK in	to ATP in the CON		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in a 200 OK INVITE, a				
	CON is sent and an Access Tr	ansport Parameter is pres	ent containing a Progress		
	Indicator #1.				
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descri	ption='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 →	<b>→</b>	INVITE		
	← 100 Trying				
	CON ←	<b>←</b>	200 OK (INVITE)		
	→ ACK				
	Apply post test routine				

TP number	TP_206_007	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/S	Sending_of_CON/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XN	/IL ProgressIndicator 2 in 200	OK into ATP in the CON		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 2 in a 200 OK INVITE, a				
	CON is sent and an A	CON is sent and an Access Transport Parameter is present containing a Progress			
	Indicator #2.				
ISUP Parameter values	CON: Access Transp	port			
	Progress I	ndicator			
	Progre	ss Description='0000010'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator	•			
	ProgressOcte				
	ProgressDescription>0000010<				
Comments					
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_008	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Send	ling_of_CON/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML P	rogressIndicator 4 in 200 OK int	to ATP in the CON		
Test Purpose	Ensure that on receipt of	a PSTN XML ProgressIndicator	value 4 in a 200 OK INVITE, a		
	CON is sent and an Access Transport Parameter is present containing a Progress				
	Indicator #4.				
ISUP Parameter values	CON: Access Transport				
	Progress Indica	ator			
	Progress D	escription='0000100'			
SIP Parameter values	200 OK:	200 OK:			
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescr	ProgressDescription>0000100<			
Comments					
Message flows	ISUP MGCF Mg				
	IAM -	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	CON	← ←	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routin	e		

TP number	TP_206_009	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	Mapping of PSTN XML Progre	ssIndicator 5 in 200 OK into	ATP in the CON		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 5 in a 200 OK INVITE, a				
	CON is sent and an Access Tr	ansport Parameter is present	containing a Progress		
IOUD D	Indicator #5.		L 1: 1: 6 :41 T/A		
ISUP Parameter values		audio, USI prime=unrestricte			
	CON: Access Transport	ed, TMR prime = speech or 3,	I KHZ audio		
	- I				
	Progress Indicator	ntion='0000101'			
SIP Parameter values	Progress Description='0000101'  200 OK:				
on randington rando		xml version="1.0" encoding="utf-8"?			
	PSTN	- dii 0 .7			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000101<				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →		VITE		
	← 100 Trying				
	CON		0 OK (INVITE)		
	→ ACK				
		Apply post test routine			

TP number	TP_206_010	Reference	7.2.3.2.11.2			
TSS reference		I/Sending of CON/				
Selection criteria	PICS 6.2.1/5	<u> </u>				
Test Purpose name		N XML ProgressIndicator	in 200 OK into ATP in the CON			
Test Purpose			ssIndicator value 7 in a 200 OK INVITE, a			
-			eter is present containing a Progress			
	Indicator #7. The Ba	ackward call indicator is se	to the following values:			
		ISDN User Part indicator				
		Part used all the way				
	ISDN access inc					
	_	g access non-ISDN				
	Interworking ind					
ISUP Parameter values		king encountered.				
150P Parameter values	CON: Access Tran					
		ISDN User Part indicator ISDN User Part used all the way				
	ISDN access indicator					
		Terminating access non-ISDN				
		king indicator				
		terworking encountered				
SIP Parameter values	200 OK:	-				
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicat					
	ProgressOct					
	Progress	Description>0000111<				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
	001		← 100 Trying			
	CON	<b>←</b>	<ul><li>← 200 OK (INVITE)</li><li>→ ACK</li></ul>			
		Apply post t	- /			
		Apply post t	est toutille			

TP number	TP_206_011				
TSS reference	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 an 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 Transport				
	High layer compatibility				
	High layer characteristics identification = <b>HLC_VA</b>				
SIP Parameter values	200 OK:				
	PSTN XML MIME body				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
0	HighLayerCharacteristics> <b>HLC_VA</b> <				
Comments	IOUD MOOF M.				
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	← 100 Trying				
	CON ← 200 OK (INVITE)				
	→ ACK				
	Apply post test routine				

TP number	TP_206_012	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sendir	ig_of_CON/	•		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Bea	arerCapability in 200 OK into	ATP in CON		
Test Purpose	Ensure that on receipt of 20	00 OK INVITE and a PSTN X	ML BearerCapability element is		
			neter is present containing a Bearer		
	Capability IE and the value	is set to the value ITC_value	e as indicated in table 6.1.2.5-1.		
ISUP Parameter values	CON: Access Transport				
	Bearer Capabilit	У			
	Information T	ransfer Capability = ITC_val	lue		
SIP Parameter values	200 OK:				
	xml version="1.0" encod</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard				
		sferCapability> ITC_value <			
	BCoctet4				
	TransferMode>00<				
_	InformationTransferRate>10000<				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
	← 100 Trying				
	CON +	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routi	ne		

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		
Test Purpose name	Mapping of PSTN XML BearerCapability into Transmission medium used parameter		
Test Purpose	Ensure that on receipt of a PSTN XML BearerCapability element in a 200 OK INVITE a		
	Transmission Medium Used parameter is present in the sent CON message. The value of		
	the PSTN XML InformationTransferCapability value TMU_VA_BC is mapped into the value		
	of the Transmission Medium Used parameter TMU_VA_TMU as described		
	in table 6.1.2.5-3.		
ISUP Parameter values	IAM: USI=speech or 3,1 kHz audio, USI prime=unrestricted digital info with T/A,		
	TMR=64 kBit/s preferred, TMR prime = speech or 3,1 kHz audio		
	CON: TMU:		
OID Developed	TMU_VA_TMU		
SIP Parameter values	INVITE:		
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>		
	BearerCapability		
	BCoctet3		
	CodingStandard>00<		
	InformationTransferCapability>mapped from USI<		
	miormation manageroapability/mapped from OOK		
	BearerCapability		
	BCoctet3		
	CodingStandard>00<		
	InformationTransferCapability>mapped from USI prime<		
	200 OK:		
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	BearerCapability		
	BCoctet3		
	CodingStandard>00<		
	InformationTransferCapability> <b>TMU_VA_BC</b> <		
Comments			
Message flows	ISUP MGCF Mg		
Message news	IAM → INVITE		
	← 100 Trying		
	CON ← 200 OK (INVITE)		
	→ ACK		
	Apply post test routine		
L	Apply poor tool routine		

TD	TD 000 044	1,	D-f	7.000.444		
TP number	TP_206_014		Reference	7.2.3.2.11A		
TSS reference	ISUP-SIP/Basic ca	ll/Sending_of	_CON/			
Selection criteria	PICS 6.2.1/19	PICS 6.2.1/19				
Test Purpose name	Receipt of a reINVI	TE 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 reso<="" th=""><th>urce URL&gt;</th><th></th></media>	urce URL>			
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	→	INVITE1		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	ANM	<b>←</b>	<b>+</b>	200 OK ĬNŬITE		
		→ ACK				
	← INVITE					
	→ 200 OK INVITE2					
	<b>←</b> ACK					
	media					
		Apply post test routine				

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

TP number	TP_207_001	Reference	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic call/Receipt_o	f_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			
	← 100 Trying					
	REL ←	REL ← 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_o	f_4xx-5xx-6xx/			
Selection criteria					
Test Purpose name	Mapping of unsuccessful final	responses to REL after 18	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	REL: 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	Re	ference	7.2.3.2.12			
TSS reference		ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/					
Selection criteria		•					
Test Purpose name	Mapping of unsucce	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	<b>→</b> ← →	→ + + +	INVITE 100 Trying 181 Call is Being Forwarded SIP_Response ACK			

TP number	TP_207_004	Reference	<u></u>	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria					
Test Purpose name	Mapping of unsucces	sful final responses	to REL after 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	REL: Cause = REL_c	ause			
SIP Parameter values	SIP_Response				
Comments					
Message flows	ISUP	MG	CF .	Mg	
	REL RLC	<b>→</b> ← <b>→</b>	<b>←</b> 1 <b>←</b> 1 <b>←</b> 5	NVITE 100 Trying 183 Session Progress SIP_Response ACK	

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

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

TP number	TP_207_005	Reference	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/Rec	eipt_of_4xx-5xx-6xx/	•		
Selection criteria					
Test Purpose name	Mapping of Reason head	der into Cause value of RE	L		
Test Purpose	Ensure that on receipt of	an unsuccessful final resp	onse SIP_Response and a Reason		
	header is present set to	cause SIP_cause, this valu	e is used in the corresponding REL		
	message. The mapping i	s indicated in table 6.1.2.7	-3. The location value in the REL		
	message is set to 'netwo	rk beyond interworking poi	nt'.		
ISUP Parameter values	REL: Cause= SIP_caus	se			
SIP Parameter values	SIP_Response: Reason	n: cause= SIP_cause			
Comments	The use of different caus	e values in the Reason he	ader is recommended. The cause value		
	should be adequate to the response code.				
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	← 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_23	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 ProgressIndicator 1 in an unsuccessful final response into ATP in the REL					
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:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>000001<				
Comments						
Message flows	ISUP MGCF Mg					
	IAM → INVITE					
		<b>←</b> 1	100 Trying			
	REL ←	<b>+</b> 5	SIP_Response			
	RLC →		ACK '			

TP number	TP_207_007	Reference	7.2.3.2.12				
TSS reference	ISUP-SIP/Basic call/Rece	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/					
Selection criteria	PICS 6.2.1/5	•					
Test Purpose name	Mapping of PSTN XML P the REL	Mapping of PSTN XML ProgressIndicator 2 in an unsuccessful final response into ATP in the REL					
Test Purpose	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	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		MGCF →	Mg INVITE 100 Trying SIP_Response				
	RLC	<b>→</b>	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	the REL		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 Descrip	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 → INVITE					
		<b>←</b> 1	00 Trying			
	REL ←		SIP_Response			
	RLC →		ACK .			

TP number	TP_207_009	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 X the REL	Mapping of PSTN XML ProgressIndicator 5 in an unsuccessful final response into ATP in the RFI				
Test Purpose	response as indicate	Ensure that on receipt of a PSTN XML ProgressIndicator value 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 Progress Indicator #5.				
ISUP Parameter values	IAM: USI=speech TMR=64 kBi REL: Access Tran Progress					
SIP Parameter values	SIP_Response: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101<					
Comments						
Message flows	ISUP	3				
	REL RLC	<b>→</b> <b>←</b> <b>→</b>		<ul><li>→ INVITE</li><li>← 100 Trying</li><li>← SIP_Response</li><li>→ ACK</li></ul>		

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		ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/						
Selection criteria	PICS 6.2.1/5							
Test Purpose name	in REL		ty in an unsuccessful final response into ATP					
Test Purpose	Ensure that on rec	eipt of an unsuccessful fina	al response and a PSTN XML					
	HighLayerCompati	bility element is present a	REL is sent and an Access Transport					
	Parameter is prese	ent containing a High layer	compatibility IE and the value is set to the					
		indicated in table 6.1.2.5-1						
ISUP Parameter values	REL: Access Trai							
		er compatibility						
		layer characteristics ident	ification = HLC_VA					
SIP Parameter values	SIP_Response:							
	PSTN XML MIME	body						
		)" encoding="utf-8"?>						
	PSTN	. constanting and con-						
	HighLayerCom	patibility						
	HLOctet3							
	CodingS	Standard>00<						
		tation>100<						
		ationMethod>01<						
	HLOctet4							
		erCharacteristics> <b>HLC_V</b>	4<					
Comments	19							
Message flows	ISUP	MGCF	Mg					
	IAM	<b>→</b>	→ INVITE					
		_	← 100 Trying					
	REL	<b>←</b>	← SIP_Response					
	RLC	÷	→ ACK					
I	ILLO	7	→ AUN					

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 unsuccessful f	inal response into ATP in REL				
Test Purpose	Ensure that on receipt of an un						
	BearerCapability element is pre						
	present containing a Bearer Ca	pability IE and the value is se	t 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_value					
SIP Parameter values	SIP_Response:	II . (					
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>					
	PSTN						
		BearerCapability					
	BCoctet3						
	CodingStandard>00<						
	InformationTransferCapability> ITC_value <						
	BCoctet4 TransferMode>00<						
	InformationTransfer	Pata > 10000 <					
Comments	IIIIOIIIIatioiiiTalisieli	(ale>10000					
Message flows	ISUP	MGCF	Mg				
Wessage nows	IAM →	→ INV	_				
	IAW		Trying				
	REL ←		_Response				
	RLC →	→ ACI	\				

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		
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					
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		
				<b>←</b>	100 Trying		
	← SIP_Response						
	→ ACK						
	media						
		Apply post test routine					

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 respo	nses after sending of INVITE					
Test Purpose	sending of INVITE without dete	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 → INV/ Fi/w3 started ← 484 → ACk	Address Incomplete				
	_	Ti/w2 started → INV Ti/w3 started ← 484 → ACk	Address Incomplete				
	REL ← -	Ti/w3 expired					

TP number	TP_207_014		Reference		7.2.3.2	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	sending of INV	ITE				
Test Purpose	Ensure that on rece REL is sent. The Ca					3.1.2.7-5, an ISUP		
ISUP Parameter values	REL: Cause=127							
SIP Parameter values								
Comments								
Message flows	ISUP IAM	<b>→</b>	MGCF	<b>→</b>	INVITE	Mg		
	REL RLC	<b>←</b> →		<b>←</b> →	3xx_VA 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/Basic call/Receipt_of_4xx-5xx-6xx/						
Selection criteria	PICS 6.2.1/3						
Test Purpose name			rithin an early dialog				
Test Purpose	Ensure that o	n receipt of a 580	Precondition Failur	e final resp	onse after an UPDATE		
					Cause value is set to 127.		
ISUP Parameter values				eck require	d on this circuit or continuity		
		ned on previous c					
			inuity check succes	sful			
	REL: Cause=						
SIP Parameter values		orted: precondition					
	SDP	a=curr:qos local					
		a=curr:qos remo					
			atory local sendrec	V			
		a=des.qos none	remote sendrecv				
	183: Require:	100rol					
	SDP	a=curr:qos local	none				
	ODI	a=curr:qos remo					
			atory local sendrec	V			
			atory remote sendr				
		a=conf:gos remo					
	UPDATE:						
	SDP	a=curr:qos local	sendrecv				
		a=curr:qos remo					
		a=des:qos mand	atory local sendrec	V			
		a=des:qos mand	atory remote sendr	ecv			
Comments							
Message flows	ISUF		MGCF		Mg		
	IAM	<b>→</b>		<b>→</b>	INVITE		
				<b>←</b>	100 Trying		
	← 183 Session Progress						
				<b>→</b>	PRACK		
				<b>←</b>	200 OK (PRACK)		
	COT	<b>→</b>		<b>→</b>	UPDATE		
	REL	<b>←</b>		<b>←</b>	580 Precondition Failure		
	RLC	<b>→</b>		_			
			Apply post test	routine			

## 6.1.2.8 Receipt of a BYE

TP number	TP 208 001	Reference	7.2.3.2.13
TSS reference	ISUP-SIP/Basic call/Receip	t_of_BYE/	•
Selection criteria			
Test Purpose name	BYE received, REL is sent		
Test Purpose	Ensure that on receipt of a l	BYE message and no reasor	n header is present, a REL is sent.
	The Cause value of the REI interworking point'.	is set to #16, the location is	s set to 'network beyond
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
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK
	REL ← RLC →	<b>←</b> →	BYE 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 value	der is present, REL Cause of	derived from the Reason cause
Test Purpose			neader is present, a REL is sent. n the Reason header.
ISUP Parameter values	REL: Cause= <reason caus<="" th=""><th>se&gt;</th><th></th></reason>	se>	
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>	<b>←</b> →	200 OK (INVITE) ACK
	REL ← RLC →	<b>←</b> →	BYE 200 OK (BYE)

TP number	TP_208_003	Reference	7.2.3.2.13
TSS reference	ISUP-SIP/Basic call/Recei	pt_of_BYE/	•
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Pro	ogressIndicator 1 in a BYI	into ATP in the REL
Test Purpose			cator value 1 in a BYE request, a REL nt containing a Progress Indicator #1.
ISUP Parameter values	REL: Access Transport		
	Progress Indica		
	•	escription='0000001'	
SIP Parameter values	BYE:		
	xml version="1.0" encod</th <th>ding="utf-8"?&gt;</th> <th></th>	ding="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescri	ption> <b>0000001</b> <	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM =	•	→ INVITE
			← 100 Trying
	ACM	<del>-</del>	← 180 Ringing
	ANM	<del>-</del>	← 200 OK (INVITE)
			→ ACK
	REL •	<b>÷</b>	<b>←</b> BYE
	RLC =	<b>&gt;</b>	→ 200 OK (BYE)

TP number	TP_208_004	Re	eference	7.2.3.2.13
TSS reference	ISUP-SIP/Basic call	Receipt of E	BYE/	•
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN X	ML ProgressI	ndicator 2 in a BYE	into ATP in the REL
Test Purpose				eator value 2 in a BYE request, a REL nt containing a Progress Indicator #2.
ISUP Parameter values	REL: Access Trans			
	Progress Progre	Indicator ess Description	n='0000010'	
SIP Parameter values	BYE:		•	
	xml version="1.0"<br PSTN	encoding="u	tf-8"?>	
	ProgressIndicato	or		
	ProgressOcte	et4		
	Progressl	Description> <b>0</b>	000010<	
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	•	<b>▶</b> INVITE
				► 100 Trying
	ACM	<b>←</b>	•	► 180 Ringing
	ANM	<b>←</b>	•	200 OK (INVITE)
			•	<b>→</b> ACK
	REL	<b>←</b>	•	<b>F</b> BYE
	RLC	<b>→</b>	•	→ 200 OK (BYE)

TD	TD 000 005	1,	D-f		7.0.0.0.10			
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 >	(ML Progress	sIndicator 4 in a	BYE into	o ATP in the REL			
Test Purpose	Ensure that on rece	ipt of a PSTI	N XML Progress	Indicato	r value 4 in a BYE request, a REL			
	is sent and an Acce	ss Transpor	Parameter is p	resent co	ontaining a Progress Indicator #4.			
ISUP Parameter values	REL: Access Tran	sport	-					
	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							
	ProgressIndicat	or						
	ProgressOc							
		Description>	-0000100<					
Comments	, ,							
Message flows	ISUP		MGCF		Mg			
	IAM	→		<b>→</b>	INVITE			
				<b>←</b>	100 Trying			
	ACM	<b>←</b>		<del>-</del>	180 Ringing			
	Now Too Kinging							
	ANM ← 200 OK (INVITE)							
	· · · · · · · · · · · · · · · · · · ·							
		→ ACK						
	REL	<b>←</b>		<b>←</b>	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	ISUP-SIP/Basic call/Receipt_of_BYE/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 5 in a BYE int	o ATP in the REL				
Test Purpose			or value 5 in a BYE request, a REL				
			ontaining a Progress Indicator #5.				
ISUP Parameter values		Hz audio, USI prime=unrest					
		erred, TMR prime = speech o	r 3,1 kHz audio				
	REL: Access Transport						
	Progress Indicate						
		scription='0000101'					
SIP Parameter values	BYE:						
	xml version="1.0" encodi</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescrip	tion>0000101<					
Comments	IOUR	NOOF.					
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
		<del>(</del>	100 Trying				
	ACM ←	<b>←</b>	180 Ringing				
		_					
	ANM ←	<del>-</del>	200 OK (INVITE)				
		<b>→</b>	ACK				
		_					
	REL ←	<b>←</b>	BYE				
	RLC →	<u>→</u>	200 OK (BYE)				

TP number	TP_208_007	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		HighLayerCompatibility in	a BYE ir	nto ATP in REL		
Test Purpose				lighLayerCompatibility element is		
				r is present containing a High		
	layer compatibility IE an	d the value is set to the va	alue HLC	_VA as indicated in		
	table 6.1.2.5-1.					
ISUP Parameter values	REL: Access Transpor					
	High layer co					
		r characteristics identifica	tion = <b>HL</b>	.C_VA		
SIP Parameter values	BYE:					
	PSTN XML MIME body					
	xml version="1.0" end</th <th>coding="utf-8"?&gt;</th> <th></th> <th></th>	coding="utf-8"?>				
	PSTN					
	HighLayerCompatibi	llity				
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4 HighLayerCharacteristics> <b>HLC_VA</b> <					
Comments	TilgiiLayeron	aracteristics/IILO_VA				
Message flows	ISUP	MGCF		Mg		
meesage news	IAM	→	<b>→</b> II	NVITE		
	· · · · ·	-		00 Trying		
	ACM	<b>←</b>		80 Ringing		
	/ tolli	_		55 T.M.Ig.I.Ig		
	ANM	<b>←</b>	<b>←</b> 2	200 OK (INVITE)		
		-		ACK		
			- /			
	REL	<b>←</b>	<b>←</b> B	BYE		
	RLC	÷	_	200 OK (BYE)		
	1 – •	=		(312)		

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					
			ter is present containing a Bearer			
	Capability IE and the value is s	set 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	ie			
SIP Parameter values	BYE:	" 15 0 0 0				
	<pre><?xml version="1.0" encoding=</pre></pre>	="utt-8"?>				
	PSTN					
	BearerCapability BCoctet3					
		1-				
	CodingStandard>00< InformationTransferCapability> ITC_value <					
	BCoctet4					
	TransferMode>00<					
	InformationTransferRate>10000<					
Comments	200 2					
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	ANM <b>←</b>	<b>←</b>	200 OK (INVITE)			
		<b>→</b>	ACK			
	REL ←	<del>-</del>	BYE			
	RLC →	<b>→</b>	200 OK (BYE)			

## 6.1.2.9 Receipt of the Release Message

TP number	TP_209_001	-	Reference		7.2.3.2.14		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria							
Test Purpose name	REL received before	e an early dia	alogue was esta	blished	, 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						
SIP Parameter values	CANCEL: Reason:	cause= <cau< td=""><td>ise value&gt;</td><td></td><td></td></cau<>	ise value>				
Comments							
Message flows	ISUP		MGCF		Mg		
	REL RLC	<b>→</b> <b>←</b>		<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/Receipt_o	f_REL/			
Selection criteria					
Test Purpose name	REL received after an early dia	logue with 180 was establis	shed, 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				
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value&gt;</th><th></th></ca<>	use value>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> II	NVITE		
		<b>←</b> 1	00 Trying		
	ACM ←	← 1	80 Ringing		
	REL →	<b>→</b> 0	ANCEL		
	RLC ←		00 OK (CANCEL)		
			87 Request Terminated CK		

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 of	lialogue with 181 was estal	blished, a CANCEL is sent			
Test Purpose	Forwarded response was est	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=<	Cause value>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	+	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		
			1.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receip	ot_ot_REL/			
Selection criteria					
Test Purpose name					
Test Purpose	REL received after an early	dialogue with 182 was esta	blished, 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: cause=	<cause value=""></cause>			
Message flows	ISUP	MGCF	Mg		
	IAM -	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	182 Queued		
	REL →	<b>→</b>	CANCEL		
	RLC ←	<b>←</b>	200 OK (CANCEL)		
		<b>←</b> →	487 Request Terminated ACK		

TP number	TP_209_005	Reference	7.2.3.2.14
TSS reference	ISUP-SIP/Basic call/Receipt_o	f_REL/	
Selection criteria			
Test Purpose name	REL received after an early dia	logue with 183 was establi	shed, a CANCEL is sent
Test Purpose	Ensure that on receipt of a REI		
			s sent and the Reason header is
	present, the cause value is der	ived from the Cause value	in the received REL.
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value&gt;</th><th></th></ca<>	use value>	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	NVITE
		<b>+</b> '	100 Trying
	ACM ←	<b>←</b> ′	183 Session Progress
	551	•	241051
	REL →		CANCEL
	RLC <b>←</b>		200 OK (CANCEL)
			187 Request Terminated
		<b>→</b> /	ACK

TP number	TP_209_006	Reference	7.2.3.2.14
TSS reference	ISUP-SIP/Basic call/Receipt_c	of_REL/	
Selection criteria			
Test Purpose name	REL received in the confirmed	dialogue a BYE is sent	
Test Purpose			ed dialogue, a BYE request is sent
	and the Reason header is pre-	sent, the cause value is de	rived from the Cause value in the
	received REL.		
ISUP Parameter values	REL: Cause value		
SIP Parameter values	BYE: Reason: cause= <caus< th=""><th>e value&gt;</th><th></th></caus<>	e value>	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	ACM ←	<b>←</b>	180 Ringing
			5 5
	ANM	<b>+</b>	200 OK (INVITE)
		<b>→</b>	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/Receipt_	ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	BYE		(ML ProgressIndicator #1 in the				
Test Purpose			ontaining a Progress Indicator #1 in				
	the confirmed dialogue, a BY		TN XML ProgressIndicator is				
	present, the ProgressDescrip	tion is set to #1.					
ISUP Parameter values	REL: Access Transport						
	Progress Indicator						
OID D		ription='0000001'					
SIP Parameter values	BYE:						
	xml version="1.0" encoding<br PSTN	g="utt-8"?>					
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription	on> <b>0000001</b> <					
Comments	l regional and						
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
		<b>←</b>	100 Trying				
	ACM ←	<b>←</b>	180 Ringing				
	ANM <b>←</b>	<b>←</b>	200 OK (INVITE)				
		<b>→</b>	ACK				
	REL →	<b>→</b>	BYE				
	RLC <b>←</b>	+	200 OK (BYE)				

TP number	TP_209_008	R	Reference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic cal	I/Receipt_of_	REL/		•	
Selection criteria	PICS 6.2.1/5	, = =				
Test Purpose name	Mapping of REL AT BYE	P Progress Ir	ndicator #2 into	PSTN )	XML ProgressIndicator #2 in the	
Test Purpose	Ensure that on receipt of a REL message and an 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	<b>→</b>	MGCF	<b>→ ←</b>	Mg INVITE 100 Trying 180 Ringing	
	ANM	<b>←</b>		<b>←</b> <b>→</b>	200 OK (INVITE) ACK	
	REL RLC	<b>→</b>		<b>→</b>	BYE 200 OK (BYE)	

TP number	TP_209_009	R	eference		7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Rec	ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of REL ATP Pro	ogress Ir	ndicator #4 into	PSTN >	KML ProgressIndicator #4 in the		
Test Purpose					ontaining a Progress Indicator #4 in		
				id a PS	TN XML ProgressIndicator is		
	present, the ProgressDe		is set to #4.				
ISUP Parameter values	REL: Access Transport						
	Progress India						
		Descripti	on='0000100'				
SIP Parameter values		BYE:					
	xml version="1.0" enc</th <th>oding="u</th> <th>itt-8"?&gt;</th> <th></th> <th></th>	oding="u	itt-8"?>				
	PSTN						
		ProgressIndicator					
	ProgressOctet4 ProgressDescription>0000100<						
Comments	1 TogressDesc	npuon>t	7000100<				
Message flows	ISUP		MGCF		Mg		
message news	IAM	<b>→</b>	MOOI	<b>→</b>	INVITE		
	7 (17)	-		É	100 Trying		
	ACM	<b>←</b>		È	180 Ringing		
	7.0101	•		•	100 Tanging		
	ANM	<b>←</b>		<b>←</b>	200 OK (INVITE)		
	,	_		<b>→</b>	ACK		
				_	7.0.1		
	REL	<b>→</b>		<b>→</b>	BYE		
	RLC	<u> </u>		<u> </u>	200 OK (BYE)		

TP number	TP_209_010	R	eference		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 AT BYE	ΓP Progress Ir	ndicator #5 into	PSTN 2	XML 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	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	<b>→</b>	MGCF	<b>→ ←</b>	Mg INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>		<b>←</b> <b>→</b>	200 OK (INVITE) ACK		
	REL RLC	<b>→</b>		<b>→</b>	BYE 200 OK (BYE)		

TP number	TP_209_011	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 ATP High layer the BYE	er compatibility into PSTN	I XML HighLayerCompatibility in				
Test Purpose	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	REL: Access Transport  High layer compatib  High layer chara	ility acteristics identification =	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	IOLID	МООТ					
Message flows	ISUP IAM → ACM ←	MGCF → ←	Mg INVITE 100 Trying 180 Ringing				
	ANM ← 200 OK (INVITE) → ACK						
	REL → ←	<b>→</b>	BYE 200 OK (BYE)				

TP number	TP_209_012	Reference	7.2.3.2.14				
TSS reference	ISUP-SIP/Basic call/Recei	pt_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of REL ATP Low the BYE	Layer Compatibility into PST	N XML LowLayerCompatibility in				
Test Purpose	Ensure that on receipt of a REL message and an ATP containing a Low Layer Compatibility IE in the confirmed dialogue, a BYE request is sent and a PSTN XML LowLayerCompatibility is present, the InformationTransferCapability is set to ITC_value as indicated in table 6.1.1.4-4.						
ISUP Parameter values	REL: Access Transport  LowLayerCompatibility  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	ISUP IAM ACM	<b>+</b>	<b>Mg</b> INVITE 100 Trying 180 Ringing				
	ANM	÷	200 OK (INVITE) ACK				
	REL -		BYE 200 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 ear	ly 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					
ISUP Parameter values							
SIP Parameter values	CANCEL: Reason:						
Comments							
Message flows	ISUP	MGCF	Mg				
	RSC → RLC ←	+ + + +	INVITE 100 Trying CANCEL 200 OK (CANCEL) 487 Request Terminated				
			ACK				

TP number	TP_210_002	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Rece	ipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of RSC after an e	arly dialogue with 180 was e	established			
Test Purpose	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>	INVITE			
	ACM	+ +	180 Ringing			
	RSC ·	<b>→</b>	CANCEL			
	RLC	← ←	200 OK (CANCEL)			
		<b>←</b> →				

TP number	TP_210_003	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 RSC after an early	dialogue with 181 was esta	ablished		
Test Purpose	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>	INVITE		
		<b>←</b>	181 Being forwarded		
	RSC →	<b>→</b>	CANCEL		
	RLC ←		200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP_210_004		Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/I	Receipt_of	_RSC-GRS-CGB/	•			
Selection criteria							
Test Purpose name	Receipt of RSC after	an early di	ialogue with 183 was es	stablished			
Test Purpose	Progress provisional	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 confi	rmed dialogue was establish	ned				
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	F	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/R	Receipt_of_	RSC-GRS-CGB/			
Selection criteria						
Test Purpose name	Receipt of GRS before	e an early o	dialogue was establish	ed		
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>	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/Rece	eipt_of_RSC-GRS-CGB/	1				
Selection criteria		•					
Test Purpose name	Receipt of GRS after an e	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:						
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM	<b>→</b>	<b>→</b> INVITE				
	ACM	<del>(</del>	180 Ringing				
	GRS	<b>→</b> -	<b>→</b> CANCEL				
	GRA ← 200 OK (CANCEL)						
			<ul><li>487 Request Terminated</li><li>ACK</li></ul>				

TP number	TP_210_008	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 an ear	y dialogue with 181 was est	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)		
		<b>←</b> →	487 Request Terminated ACK		

TP number	TP_210_009		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 GRS after	er an early di	alogue with 183 was	established		
Test Purpose	Progress provisiona	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		MGCF	Mg		
_	IAM	<b>→</b>	+	INVITE		
			<b>←</b>	183 Session Progress		
	GRS	<b>→</b>	<b>-</b>	CANCEL		
	GRA	<b>←</b>	+	<ul> <li>200 OK (CANCEL)</li> </ul>		
			<b>←</b>			

TP number	TP_210_010	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/R	eceipt_of_RSC-GRS-CGB/	·			
Selection criteria						
Test Purpose name	Receipt of GRS after	a confirmed dialogue was est	ablished			
Test Purpose		Ensure that on receipt of GRS 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 ACM ANM	<b>→</b> <b>←</b> <b>←</b>	→ INVITE ← 180 Ringing ← 200 OK (INVITE) → ACK			
	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 call/Receipt_of	ISUP-SIP/Basic call/Receipt of RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of GRS after a confirmate terminated.	ed dialogue was establish	ed, all affected communications			
Test Purpose	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			
	Tw	o connection are establ	ished			
	GRS →					
	GRA <b>←</b>	<b>→</b>	BYE (1)			
			200 OK (BYE)			
			BYE (2) 200 OK (BYE)			

TP number	TP_210_012	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Rece	ipt_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of CGB 'hardware	e oriented' before an early d	ialogue 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 super	vision message type=hardw	are failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	CGB •	÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷	<ul> <li>100 Trying</li> <li>CANCEL</li> <li>200 OK (CANCEL)</li> <li>487 Request Terminated</li> </ul>		

TP number	TP_210_013	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 orie	ented' after an early dialog	ue 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 supervisio	n message type=hardware	e 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>	<del>(</del>	200 OK (CANCEL)		
		<b>←</b> →	487 Request Terminated ACK		

TP number	TP_210_014	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Recei	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of CGB 'hardware	oriented' after an early di	ialogue 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 superv	vision message type=hard	lware failure oriented			
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	•	→ INVITE			
			← 181 Being forwarded			
	CGB ÷	•	→ CANCEL			
	CGBA		← 200 OK (CANCEL)			
			<ul><li>← 487 Request Terminated</li><li>→ ACK</li></ul>			
			/ AUN			

TP number	TP_210_015	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/F	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria		<u> </u>				
Test Purpose name	Receipt of CGB 'hard	ware oriented' after an ea	arly dialogue with 183 was established			
Test Purpose	183 Session Progress	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 su	pervision message type	=hardware failure oriented			
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	→	→ 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	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria		· = =				
Test Purpose name	Receipt of CGB 'ha	rdware oriented' after a conf	irmed dialogue was established			
Test Purpose		Ensure that on receipt of CGB 'hardware oriented' after a confirmed dialogue with a 200 OK (INVITE) final response 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 ACM ANM	<b>→</b> <b>←</b> <b>←</b>	<ul> <li>→ INVITE</li> <li>← 180 Ringing</li> <li>← 200 OK (INVITE)</li> <li>→ ACK</li> </ul>			
	CGB CGBA	<b>→</b> ←	<ul><li>→ BYE</li><li>← 200 OK (BYE)</li></ul>			

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		gue 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 connections is sent.				
ISUP Parameter values	CGB: Circuit group supervision	message type=hardware fa	ailure oriented		
SIP Parameter values	BYE: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	Tw	o connection are establis	hed		
	CGB →				
	CGBA ←	<b>→</b> B	YE (1)		
		← 2	00 OK (BYE)		
			YE (2) 00 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	us_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
			Iready established early dialogue is
	terminated. A CANCEL reques	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
		<b>←</b>	100 Trying
		<b>←</b>	183 Session Progress
		<b>→</b>	PRACK
		<b>←</b>	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	ISUP-SIP/Basic call/Autonomous 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 dialogue is terminated. A CANCEL request is sent.					
ISUP Parameter values		·				
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	Start T8	INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK)			
		<b>+</b>	CANCEL 200 OK (CANCEL) 487 Request Terminated ACK			

TP number	TP 211 003	Reference	7.2.3.2.16				
TSS reference		ISUP-SIP/Basic call/Autonomous_Release/					
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 unknowr	n in the SUT.				
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
	ACM ←	<b>←</b>	180 Ringing				
	??? →						
	REL <b>←</b>	<b>→</b>	CANCEL				
	RLC →	<b>←</b>	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/Autonomous_Release/				
Selection criteria					
Test Purpose name	Call is released to due message compatibility instruction 'Release call' received in the confirmed dialogue				
Test Purpose	Ensure that on receipt of an unknown ISUP message in the confirmed dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP BYE request is sent and a Reason header field is present.				
ISUP Parameter values	??? = unknown message:  Message compatibility information: Release call indicator=release call  REL: Cause=97				
SIP Parameter values	BYE: Reason:				
Comments	For an unknown message use	a message type unknowi	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)		
		<b>→</b>	ACK		
	??? →				
	REL ←	<b>→</b>	BYE		
	RLC →	+	200 OK (BYE)		

TP number	TP_211_005	Reference	7.2.3.2.16		
TSS reference	ISUP-SIP/Basic call/Autonomous_Release/				
Selection criteria					
Test Purpose name	Call is released to due parameter compatibility instruction 'Release call' received in the early dialogue				
Test Purpose	Ensure that on receipt of a CPG in the early 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 CANCEL 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	/ information: Release cal	l indicator=release call		
SIP Parameter values	CANCEL: 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		
	CPG →				
	REL ←	<b>→</b>	CANCEL		
	RLC →	<del>-</del>	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/Autonomous_Release/				
Selection criteria					
Test Purpose name	Call is released to due parameter compatibility instruction 'Release call' received in the confirmed dialogue				
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	information: Release cal	l indicator=release call		
SIP Parameter values	BYE: Reason:				
Comments	For an unknown parameter use	e a parameter type unkno	wn in the SUT.		
Message flows	ISUP	MGCF	Mg		
	IAM → ACM ← ANM ←	→ ← ← →	INVITE 180 Ringing 200 OK (INVITE) ACK		
	CPG → REL ← RLC →	<b>→</b>	BYE 200 OK (BYE)		

# 6.1.3 SIP Support of charging

#### 6.1.3.1 Incoming call interworking at I-MGCF

TP number	TP_121_001	Reference	4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Charging/				
Selection criteria	PICS 6.2.1/13				
Test Purpose name			and Content-Disposition header		
Test Purpose	Ensure that on receipt of an ISUP Application transport parameter in an ACM or APM containing an APP coded as 'Charging ASE' a SIP 183 Session Progress or 180 Ringing or an INFO request is sent. A XML 'SCI' element is present.  The  Content-Type header is set to 'application/vnd.etsi.sci+xml'  Content-Disposition header is set to 'render' and the handling parameter is set to				
IOUD Deservation and the	'optional'.				
ISUP Parameter values	APM/ACM APP Application Context Identifier '0000011' (Charging ASE)  Encapsulated Application Information Charging related Information				
CID Devementar values		ormation			
SIP Parameter values	I18x/200/NFO: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional				
Comments					
<b>→</b>	Mg INVITE CASE A	MGCF →	→ IAM		
	183 Session Progress(crgt)	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>		
	<b>CASE B</b> 180 / 183 (crgt)	<b>←</b>	<ul><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>		
	CASE C 180 Ringing 183 Session Progress(crgt)	<del>*</del>	<ul><li>← ACM</li><li>← APM(crgt)</li></ul>		
	CASE D 180 Ringing 200 OK INVITE ACK	<b>←</b> <b>←</b> <b>→</b>	← ACM ← ANM		
	INFO(crgt) 200 OK INFO	← → Apply post test routin	← APM(crgt) → APM(crga) ne		

TP number	TP_121_002	Reference	4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Charging/				
Selection criteria	PICS 6.2.1/13				
Test Purpose name	Mapping of ISUP crgt 'immedi	ateChangeOfActuallyAp	ppliedTariff' into SIP SCI XML		
	'crgt/immediateChangeOfActua				
Test Purpose	Ensure that on receipt of an IS				
			Session Progress or 180 Ringing or		
	an INFO request is sent. A XML 'SCI' element is present.				
			ter in the encapsulated charging		
	ASE is mapped into the SCI X	ML 'immediateChangeOf.	ActuallyAppliedTariff' element.		
ISUP Parameter values	APP				
	crgt				
	chargingControlIndicate				
OID Developed		ofActuallyAppliedTariff =1			
SIP Parameter values	18x/200/INFO:				
	< messageType >				
	< messageType > < crgt>				
	< chargingControlIndia	cators>			
	< immediateChang	geOfActuallyAppliedTariff	>1 </th		
Comments	, immediate emang	your totaany tppnoarann			
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	CASE A				
	183 Session Progress(crgt)	<b>←</b>	← APM(crgt)		
			→ APM(crga)		
			( 3 /		
	CASE B				
	180 / 183 (crgt)	<b>←</b>	← ACM(crgt)		
	( )		→ APM(crga)		
			, ,		
	CASE C				
	180 Ringing	<b>←</b>	← ACM		
	183 Session Progress(crgt)	<b>←</b>	← APM(crgt)		
			→ APM(crga)		
	CASE D				
	180 Ringing	<b>←</b>	← ACM		
	200 OK INVITE	<b>←</b>	← ANM		
	ACK	<b>→</b>			
	INFO(crgt)	<b>←</b>	← APM(crgt)		
	200 OK INFO	<b>→</b>	→ APM(crga)		
		Apply post test routi	ne		

TP number	TP_121_003	Reference	4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Charging	I .	[4.0.17 [0]
Selection criteria	PICS 6.2.1/13	<u>'</u>	
Test Purpose name	Mapping of ISUP 'currentTarif	fCurrency/ Communication	ChargeCurrency
reser arpose name			urrency /currencyFactorScale'
Test Purpose	an INFO request is sent. A XN The 'currentTariffCurrency' - 'Coparameter in the encapsulated 'currentTariffCurrency' - 'comrelement.	Charging ASE' a SIP 183 S ML 'SCI' element is present. CommunicationChargeCurr d charging ASE is mapped	Session Progress or 180 Ringing or Sency' - 'currencyFactorScale'
ISUP Parameter values	APP		
	currency curre	rency tionChargeCurrency FactorScale ncyFactor=[ <i>any value</i> ] ncyScale=[ <i>any value</i> ]	
SIP Parameter values	18x/200/INFO:	····y ································	
	< curre	Currency> icationChargeSequenceCu ncyFactorScale> urrencyFactor>[ <i>any value</i> ] <br urrencyScale>[ <i>any value</i> ] </th <th>· <!--</th--></th>	· </th
Comments			
Message flows	Mg	MGCF	ISUP
	CASE A 183 Session Progress(crgt)	<b>→</b>	→ IAM  ← APM(crgt) → APM(crga)
	CASE B		
	180 / 183 (crgt)	<del>(</del>	<ul><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>
	CASE C 180 Ringing 183 Session Progress(crgt)	<del>&lt;</del>	<ul><li>← ACM</li><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
	CASE D 180 Ringing 200 OK INVITE ACK	<b>←</b> <b>←</b> <b>→</b>	← ACM ← ANM
	INFO(crgt) 200 OK INFO	← → Apply post test routin	← APM(crgt) → APM(crga) e

TP number	TP_121_004	Reference		4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Chargin	g/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of ISUP 'currentTar					
	into SIP SCI XML 'currentTa					
Test Purpose	Ensure that on receipt of an					
				ion Progress or 180 Ringing or		
	an INFO request is sent. A X					
				y' - 'tariffDuration' parameter in		
	the encapsulated charging A					
ISUP Parameter values	'communicationChargeSeque	enceCurrency - tamiburati	on e	iement.		
150P Parameter values						
	crgt					
	currentTariffCurre	tariffCurrency				
		nChargeCurrency				
		on=[ <i>any value</i> ]				
SIP Parameter values	18x/200/INFO:	on [only rando]				
	< messageType >					
	< crgt>					
	< chargingTariff>					
	< tariffCurrency>					
	< currentTari					
		nicationChargeSequenceCu	urren	cy>		
0	< tarif	fDuration>[any value] </th <th></th> <th></th>				
Comments Message flows	Mg	MGCF		ISUP		
wessage nows	INVITE	→	<b>→</b>	IAM		
		•	•	IOW		
	CASE A					
		_	_	APM(crgt)		
		_	_	/ \( \( \( \) \( \) \( \) \( \)		
	183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crga)		
	100 Session Flogress(Clgt)	•	<b>→</b>	APM(crga)		
	CASE B	•		APM(crga)		
	CASE B		<b>→</b>	, ,		
		<b>+</b>		ACM(crgt)		
	CASE B		<b>→</b>	, ,		
	CASE B		<b>→</b>	ACM(crgt)		
	CASE B 180 / 183 (crgt)		<b>→</b>	ACM(crgt)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<b>→</b>	ACM(crgt) APM(crga)		
	CASE B 180 / 183 (crgt)	<b>←</b>	+ + + +	ACM(crgt) APM(crga) ACM APM(crgt)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<b>+ + + +</b>	ACM(crgt) APM(crga)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<b>+ + + +</b>	ACM(crgt) APM(crga) ACM APM(crgt)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	<b>←</b>	<b>+ + + +</b>	ACM(crgt) APM(crga) ACM APM(crgt)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D	<b>←</b> <b>←</b>	<b>→ ← → ← ← →</b>	ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+ + +</b>	→	ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE  ACK	<b>+ + +</b>	→	ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE  ACK INFO(crgt)	<b>← ← ← ← ← ←</b>	<b>+ + + + + +</b>	ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)  ACM ANM  APM(crgt)		
	CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE  ACK	<b>← ← ← ← ←</b>	<b>+ ++ ++ ++</b>	ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)  ACM ANM		

TP number	TP_121_005	Reference		4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Chargin	g/		• •		
Selection criteria	PICS 6.2.1/13	PICS 6.2.1/13				
Test Purpose name				rgeCurrency /subTariffControl		
	into SIP SCI XML 'currentTa	riffCurrency/ <b>subTariffCo</b>	ntrol' e	lement		
Test Purpose	Ensure that on receipt of an	ISUP Application transpo	rt parar	meter in an ACM or APM		
				ion Progress or 180 Ringing o		
	an INFO request is sent. A X			ul laubTawiffCaratrall		
	The 'currentTariffCurrency' - parameter in the encapsulate					
	'currentTariffCurrency' - 'com					
	element.	inanioanononargo o o que	) 100 O u	Toney Sub runin Control		
ISUP Parameter values	APP					
	crgt					
	tariffCurrency					
	currentTariffCurre	ncy				
		nChargeCurrency				
		ontrol=[any value]				
SIP Parameter values	18x/200/INFO:					
	_					
	< messageType >					
	< crgt> < chargingTariff>					
	< tariffCurrency>					
	< currentTari					
		nicationChargeSequence	Curren	ICV>		
	< sub	TariffControl>[any value]		•		
Comments						
Comments Message flows	Mg	MGCF	</th <th>ISUP</th>	ISUP		
				ISUP		
	Mg INVITE	MGCF	</th <th></th>			
	Mg INVITE CASE A	MGCF	<br →	IAM		
	Mg INVITE	MGCF	<br <b>&gt;</b>	IAM APM(crgt)		
	Mg INVITE CASE A	MGCF	<br →	IAM		
	Mg INVITE  CASE A 183 Session Progress(crgt)	MGCF	<br <b>&gt;</b>	IAM APM(crgt)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	MGCF →	<br →  ← →	IAM APM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)	MGCF	<br <b>&gt;</b>	APM(crgt) APM(crga) ACM(crgt)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	MGCF →	→  ←  →</th <th>IAM APM(crgt) APM(crga)</th>	IAM APM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	MGCF →	→  ←  →</th <th>APM(crgt) APM(crga) ACM(crgt)</th>	APM(crgt) APM(crga) ACM(crgt)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)	MGCF →	→  ←  →</th <th>APM(crgt) APM(crga) ACM(crgt)</th>	APM(crgt) APM(crga) ACM(crgt)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	MGCF → ←	→  ←  →</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C	MGCF → ←	→  ←  →</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	MGCF → ←	→  ←  →  ←  ←  ←  ←</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D	MGCF → ←	→  ←  →  ←  ←  ←  ←</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	→ MGCF  ←  ←  ←	→  ← →  ← →  ← →  ←</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE	→ MGCF  ←  ←  ←  ←  ←	→  ← →  ← →</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	→ MGCF  ←  ←  ←	→  ← →  ← →  ← →  ←</th <th>APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)</th>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	→ MGCF  ←  ←  ←  ←  ←  ←  ←  ←	→→+→++	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK INFO(crgt)	→ MGCF  ←  ←  ←  ←  ←  ←  ←  ←	→→+→++	APM(crgt) APM(crgt) ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)  ACM APM(crgt) APM(crga)		
	Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	→ MGCF  ←  ←  ←  ←  ←  ←  ←  ←	→+++	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)		

TP number	TP_121_006	Reference	4.6.1	/[6]	
TSS reference	SIP-ISUP/Basic call/Chargin	g/			
Selection criteria	PICS 6.2.1/13				
Test Purpose name	Mapping of ISUP 'currentTar 'currentTariffCurrency/tariffC		icators' into	SIP SCI XML	
Test Purpose	Ensure that on receipt of an ISUP Application transport parameter in an ACM or APM containing an APP coded as 'Charging ASE' a SIP 183 Session Progress or 180 Ringing or an INFO request is sent. A XML 'SCI' element is present.  The 'currentTariffCurrency' - 'tariffControlIndicators' parameter in the encapsulated charging ASE is mapped into the SCI XML 'currentTariffCurrency' - 'tariffControlIndicators' element.				
ISUP Parameter values	APP crgt tariffCurrency currentTariffCurrency tariffControlIndicators non-cyclicTariff =1				
SIP Parameter values	18x/200/INFO:  < messageType >	•			
Comments					
Message flows	Mg INVITE	MGCF →	→ IAM	ISUP	
	CASE A 183 Session Progress(crgt)	<b>←</b>	← APM → APM	(crgt) (crga)	
	<b>CASE B</b> 180 / 183 (crgt)	<b>←</b>		(crgt) (crga)	
	CASE C 180 Ringing 183 Session Progress(crgt)	<del>←</del>		(crgt) (crga)	
	CASE D 180 Ringing 200 OK INVITE	<del>←</del> <del>←</del>	← ACM ← ANM		
	ACK INFO(crgt) 200 OK INFO	<ul><li>→</li><li>←</li><li>→</li><li>Apply post test rout</li></ul>		(crgt) (crga)	

TP number	TP_121_007	Reference	4.6.1/[6]			
TSS reference	SIP-ISUP/Basic call/Chargin	g/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of ISUP 'currentTar 'currentTariffCurrency/callAt		geCurrency' into SIP SCI XML			
Test Purpose	Ensure that on receipt of an containing an APP coded as an INFO request is sent. A X The 'currentTariffCurrency' - charging ASE is mapped into	Ensure that on receipt of an ISUP Application transport parameter in an ACM or APM containing an APP coded as 'Charging ASE' a SIP 183 Session Progress or 180 Ringing or an INFO request is sent. A XML 'SCI' element is present.  The 'currentTariffCurrency' - 'callAttemptChargeCurrency' parameter in the encapsulated charging ASE is mapped into the SCI XML 'currentTariffCurrency' - callAttemptChargeCurrency' element.				
ISUP Parameter values	currenc	argeCurrency				
SIP Parameter values	< curre					
Comments	1 3411	oney coares [any variety] 4 m.				
Message flows	Mg	MGCF	ISUP			
J	INVITE  CASE A 183 Session Progress(crgt)  CASE B	<b>→</b> ←	<ul><li>→ IAM</li><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>			
	180 / 183 (crgt)  CASE C  180 Ringing 183 Session Progress(crgt)	<del>+</del>	<ul> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> </ul>			
	CASE D 180 Ringing 200 OK INVITE ACK INFO(crgt)	<b>←</b> <b>←</b> <b>→</b>	<ul><li>← ACM</li><li>← ANM</li><li>← APM(crgt)</li></ul>			
	200 OK INFO	Apply post test routing	→ APM(crga)			

TP number	TP_121_008	Reference	4.6.1/ [6]			
TSS reference	SIP-ISUP/Basic call/Chargin		[4.0.17 [0]			
Selection criteria	PICS 6.2.1/13	9/				
Test Purpose name		riffCurrency/callSetunCha	argeCurrency' into SIP SCI XML			
rest i dipose name	currentTariffCurrency/ calls		ingecurrency into Sir Scr Awi			
Test Purpose	Ensure that on receipt of an	ISLIP Application transpo	ort parameter in an ACM or APM			
reat ranpede			3 Session Progress or 180 Ringing or			
	an INFO request is sent. A X					
			cy' parameter in the encapsulated			
	charging ASE is mapped into					
	'callSetupChargeCurrency' e		•			
ISUP Parameter values	APP	APP				
	crgt					
	tariffCurrency					
	currentTariffCurre					
	callSetupChar					
	currencyFa					
		cyFactor=[any value]				
		cyScale=[ <i>any value</i> ]				
SIP Parameter values	18x/200/INFO:					
	< messageType >					
	< crgt>					
		_				
	< tariffCurrency>					
		< chargingTariff>				
	< callSetupChargeCurrency>					
	< currencyFactor>[any value] </th					
		currencyScale>[any value				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	CASE A					
	183 Session Progress(crgt)	<del>(</del>	APM(crgt)			
			→ APM(crga)			
	CASE B					
	180 / 183 (crgt)	<b>←</b>	ACM(crgt)			
			→ APM(crga)			
	CASE C					
	180 Ringing	<del>-</del>	← ACM			
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)			
			→ APM(crga)			
	CASE D	_				
	180 Ringing	<b>←</b>	← ACM			
	200 OK INVITE	<b>←</b>	← ANM			
		<b>←</b> →	<b>←</b> ANM			
	200 OK INVITE ACK	<b>→</b>				
	200 OK INVITE ACK INFO(crgt)	<b>→</b> ←	← APM(crgt)			
	200 OK INVITE ACK	<b>→</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>			

TP number	TP_121_009	Reference	4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Chargin		1.0.1/ [0]
Selection criteria	PICS 6.2.1/13	9'	
Test Purpose name		Currency/CommunicationCha	rgeCurrency/
	currencyFactorScale' into SI		<b>3</b>
		icationChargeSequenceCurre	ency/ currencyFactorScale
	element	-	
Test Purpose		ISUP Application transport pa	
			ession Progress or 180 Ringing or
	an INFO request is sent. A X		
		nextTariffCurrency' - 'Commu	
			ging ASE is mapped into the SCI
	XML 'tariffSwitchCurrency' -	nextrariffCurrency - enceCurrency' - 'currencyFa	ctorScalo' alamant
ISUP Parameter values	APP	encecurrency - currencyra	ctorscale element.
SOF Farameter values			
	crgt tariffCurrency		
	tariffSwitchCurren	CV	
	nextTariffCurre		
		ationChargeCurrency	
		cyFactorScale	
	curi	encyFactor=[any value]	
		rencyScale=[ <i>any value</i> ]	
SIP Parameter values	18x/200/INFO:		
	_		
	< messageType >		
	< crgt>		
	< chargingTariff>		
	< tariffCurrency>		
	< tariffSwitch	currency> iffCurrency>	
		imunicationChargeSequence	Currency
		currencyFactorScale>	ouriency>
		< currencyFactor>[any value	el </th
		< currencyScale>[any value	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	<b>→</b> IAM
	CASE A		
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)
		•	→ APM(crga)
	CASE B	_	
	180 / 183 (crgt)		ACM(crgt)
		•	→ APM(crga)
	0.405.0		
	CASE C	_	
	400 D: :		
	180 Ringing		ACM
	180 Ringing 183 Session Progress(crgt)	<b>←</b>	APM(crgt)
		<b>←</b>	_
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)
	183 Session Progress(crgt)  CASE D	•	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
	183 Session Progress(crgt)  CASE D  180 Ringing	<b>+</b> • •	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>
	183 Session Progress(crgt)  CASE D  180 Ringing 200 OK INVITE	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
	183 Session Progress(crgt)  CASE D  180 Ringing	<b>+</b> • •	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>
	183 Session Progress(crgt)  CASE D  180 Ringing 200 OK INVITE ACK	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li><li>← ANM</li></ul>
	183 Session Progress(crgt)  CASE D  180 Ringing 200 OK INVITE ACK  INFO(crgt)	← ← ← ←	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li><li>← ANM</li><li>← APM(crgt)</li></ul>
	183 Session Progress(crgt)  CASE D  180 Ringing 200 OK INVITE ACK	← ← ← ← ←	<ul> <li>← APM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← ANM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> </ul>

TP number	TP_121_010	Reference		4.6.1/[6]	
TSS reference	SIP-ISUP/Basic call/Chargin			<del>+</del> .0.1/ [0]	
Selection criteria	PICS 6.2.1/13	9'			
Test Purpose name	Mapping of ISUP 'nextTariff(	Currency/Communicati	on/Charge	Currency/ tariff	Duration' into
	SIP SCI XML 'nextTariffCurr tariffDuration' element				
Test Purpose	Ensure that on receipt of an containing an APP coded as an INFO request is sent. A X The 'tariffSwitchCurrency' - 'tariffDuration' parameter in t 'tariffSwitchCurrency' - 'next' 'tariffDuration' element.	'Charging ASE' a SIP (ML 'SCI' element is pr nextTariffCurrency' - 'C he encapsulated charg	183 Sess esent. Communicating ASE in	ion Progress or ationChargeCu s mapped into t	180 Ringing or rrency' - the SCI XML
ISUP Parameter values	APP				
	crgt tariffCurrency tariffSwitchCurren nextTariffCurre Communic tariffDu	ency cationChargeCurrency			
SIP Parameter values	18x/200/INFO:				
	< com		quenceCui	rrency>	
Comments					
Message flows	Mg INVITE	MGCF →	<b>→</b>	IAM	SUP
	CASE A 183 Session Progress(crgt)	<b>←</b>	<b>←</b> →	APM(crgt) APM(crga)	
	CASE B				
	180 / 183 (crgt)	<b>←</b>	<b>←</b> →	ACM(crgt) APM(crga)	
	CASE C				
	180 Ringing	<b>←</b>	<b>←</b>	ACM	
	183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crgt)	
			<b>→</b>	APM(crga)	
	CASE D				
	180 Ringing	<b>←</b>	<b>←</b>	ACM	
	200 OK INVITE ACK	<b>←</b> →	+	ANM	
	INFO(crgt)	<b>←</b>	<b>←</b>	APM(crgt)	
	200 OK INFO	<b>→</b>	<b>→</b>	APM(crga)	
	200 010 1141 0	Apply post test	=	, ii ivi(orga)	
		Apply post lest	Julille		

TP number	TP_121_011	Reference	4.6.1/ [6]		
TSS reference	SIP-ISUP/Basic call/Chargin		[4.6.17 [6]		
Selection criteria	PICS 6.2.1/13	g/			
		Currency/CommunicationC	haraaCurranay/auhTariffCantrall		
Test Purpose name	into SIP SCI XML 'nextTariff		hargeCurrency/ subTariffControl'		
	/subTariffControl' element	our oney, communication of	naigocoquonocountrio)		
Test Purpose	Ensure that on receipt of an	ISUP Application transport	parameter in an ACM or APM		
-		Session Progress or 180 Ringing or			
	an INFO request is sent. A				
			nunicationChargeCurrency' -		
			ng ASE is mapped into the SCI		
	XML 'tariffSwitchCurrency' -	'nextTariffCurrency' -			
	'communicationChargeSequ	enceCurrency' - ' <b>subTariff</b>	Control' element.		
ISUP Parameter values	APP				
	crgt				
	tariffCurrency				
	tariffSwitchCurrer				
	nextTariffCurr				
		ationChargeCurrency iffControl			
SIP Parameter values	18x/200/INFO:	incontrol			
Sir raiailletei values	16X/200/INFO.				
	< messageType >				
	< crgt>				
	< chargingTariff>				
	< tariffCurrency>				
	< tariffSwitchCurrency>				
	< communicationChargeSequenceCurrency>				
		subTariffControl>	,		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	CASE A				
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)		
			→ APM(crga)		
	CASE B				
	180 / 183 (crgt)	<b>←</b>	<ul><li>ACM(crgt)</li></ul>		
			→ APM(crga)		
	CASE C				
	180 Ringing	<b>←</b>	← ACM		
	183 Session Progress(crgt)	<del>(</del>	APM(crgt)		
			→ APM(crga)		
	CASE D				
	180 Ringing	<b>←</b>	← ACM		
	200 OK INVITE	<del>(</del>	← ANM		
	ACK	<b>→</b>			
	INIEO(t)		4 A DNA/ 1)		
	INFO(crgt)	<del>(</del>	← APM(crgt)		
	200 OK INFO	Annhone at test mouth	→ APM(crga)		
1	1	Apply post test rout	ine		

TP number	TP_121_012	Reference		4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Chargin	ig/		
Selection criteria	PICS 6.2.1/13			
Test Purpose name	Mapping of ISUP 'nextTariff(	Currency/tariffContro	ollndicators' i	nto SIP SCI XML
	'nextTariffCurrency/tariffCor			
Test Purpose	Ensure that on receipt of an			
				ion Progress or 180 Ringing or
	an INFO request is sent. A			
	The 'tariffSwitchCurrency' - '			
	encapsulated charging ASE			inswitchCurrency -
ISUP Parameter values	'nextTariffCurrency' - 'tariffC	ontrollidicators e	element.	
SOF Farameter values	crgt			
	tariffCurrency			
	tariffSwitchCurrer	ncv		
	nextTariffCurr			
		olIndicators		
	non-cy	clicTariff		
SIP Parameter values	18x/200/INFO:			
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency>			
	< tariffSwitch	riffCurrency>		
		fControlIndicators>		
Comments	\ taiii	100111101111aicator32		
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	CASE A			
	183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crgt)
			<b>→</b>	APM(crga)
1				
	CASE B			
	<b>CASE B</b> 180 / 183 (crgt)	<b>←</b>	<b>←</b>	ACM(crgt)
		<b>←</b>	<b>←</b> →	ACM(crgt) APM(crga)
	180 / 183 (crgt)	<b>←</b>		
	180 / 183 (crgt)  CASE C	<b>←</b>		APM(crga)
	180 / 183 (crgt)  CASE C  180 Ringing	<b>←</b>		APM(crga) ACM
	180 / 183 (crgt)  CASE C	_	<b>→</b>	APM(crga)  ACM APM(crgt)
	180 / 183 (crgt)  CASE C 180 Ringing	_	<b>→</b>	APM(crga) ACM
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	_	<b>→</b> ← ←	APM(crga)  ACM APM(crgt)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D	<del>*</del>	÷	APM(crga)  ACM APM(crgt) APM(crga)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+ +</b>	÷ + + + + + + + + + + + + + + + + + + +	APM(crga)  ACM APM(crgt) APM(crga)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE	<b>+ + +</b>	÷	APM(crga)  ACM APM(crgt) APM(crga)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+ +</b>	÷ + + + + + + + + + + + + + + + + + + +	APM(crga)  ACM APM(crgt) APM(crga)
	CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ← ← →</b>	÷ + + + +	APM(crga)  ACM APM(crgt) APM(crga)  ACM ANM
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK  INFO(crgt)	<b>← ← ← ← ← ← ← ← ←</b>	÷ ++ + +	APM(crga)  ACM APM(crgt) APM(crga)  ACM ANM  APM(crgt)
	CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ← ← →</b>	+ + + + +	APM(crga)  ACM APM(crgt) APM(crga)  ACM ANM

TP number	TP_121_013	Reference	4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Charging		1,101.17 [0]		
Selection criteria	PICS 6.2.1/13	<i>9</i> ·			
Test Purpose name	Mapping of ISUP 'nextTariffC	Currency/callAttemptChargeC	surrency' into SIP SCLXMI		
	'nextTariffCurrency/callAtten		2 2 331 / MIL		
Test Purpose	Ensure that on receipt of an I	ISUP Application transport pa	arameter in an ACM or APM		
	containing an APP coded as	'Charging ASE' a SIP 183 Se	ession Progress or 180 Ringing or		
	an INFO request is sent. A X	ML 'SCI' element is present.	3 3 3		
	The 'tariffSwitchCurrency' - 'r	nextTariffCurrency' - 'callAtter	mptChargeCurrency' parameter in		
	the encapsulated charging A				
	'nextTariffCurrency' - 'callAtte	emptChargeCurrency' elemer	nt.		
ISUP Parameter values	APP				
	crgt				
	tariffCurrency				
	tariffSwitchCurren				
	nextTariffCurre				
		tChargeCurrency			
		yFactorScale			
		encyFactor=[any value]			
CID Deserved an area large		encyScale=[any value]			
SIP Parameter values	18x/200/INFO:				
	a managaraTuna				
	< messageType >				
	< crgt> < chargingTariff>				
	< tariffCurrency>				
		iffCurrency>			
		AttemptChargeCurrency>			
		currencyFactor>[any value] <	<i>/</i>		
		currencyScale>[any value] </th <th></th>			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	İ				
	CASE A				
	CASE A 183 Session Progress(crgt)	<b>←</b>	← APM(crgt)		
			← APM(crgt) → APM(crga)		
	183 Session Progress(crgt)				
	183 Session Progress(crgt)  CASE B		→ APM(crga)		
	183 Session Progress(crgt)		<ul><li>→ APM(crga)</li><li>← ACM(crgt)</li></ul>		
	183 Session Progress(crgt)  CASE B		→ APM(crga)		
	183 Session Progress(crgt)  CASE B  180 / 183 (crgt)		<ul><li>→ APM(crga)</li><li>← ACM(crgt)</li></ul>		
	183 Session Progress(crgt)  CASE B		<ul><li>→ APM(crga)</li><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>		
	183 Session Progress(crgt)  CASE B  180 / 183 (crgt)	<b>←</b>	<ul><li>→ APM(crga)</li><li>← ACM(crgt)</li></ul>		
	183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C	<b>←</b>	<ul><li>→ APM(crga)</li><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<ul><li>→ APM(crga)</li><li>← ACM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	<b>←</b>	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D	<b>← ←</b>	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	<b>←</b>	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>←</b>	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE	÷ ÷	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE	<b>← ← ← ← ←</b>	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> </ul>		
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	← ← ← ← ←	<ul> <li>→ APM(crga)</li> <li>← ACM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← APM(crgt)</li> <li>→ APM(crga)</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← ANM</li> </ul>		

TP number	TP_121_014	Reference		4.6.1/[6]	
TSS reference	SIP-ISUP/Basic call/Chargin			,, [e]	
Selection criteria	PICS 6.2.1/13	- J			
Test Purpose name	Mapping of ISUP 'nextTariff0	Currency/callSetupChargeC	urren	ncy' into SIP SCI XML	
	'nextTariffCurrency/callSetu	pChargeCurrency'			
Test Purpose	Ensure that on receipt of an	ISUP Application transport	parar	neter in an ACM or APM	
	containing an APP coded as	'Charging ASE' a SIP 183	Sessi	ion Progress or 180 Ringing or	
	an INFO request is sent. A >				
				hargeCurrency' parameter in	
	the encapsulated charging A			'tariffSwitchCurrency' -	
	'nextTariffCurrency' - 'callSe	tupChargeCurrency' elemer	nt.		
ISUP Parameter values	APP .				
	crgt				
	tariffCurrency				
	tariffSwitchCurrer				
	nextTariffCurr	ency ChargeCurrency			
		cyFactorScale			
		rencyFactor=[any value]			
		rencyScale=[any value]			
SIP Parameter values	18x/200/INFO:	) [)			
	_				
	< messageType >				
	< crgt>				
	< chargingTariff>	_			
	<pre>&lt; tariffCurrency&gt;   &lt; tariffSwitchCurrency&gt;   &lt; nextTariffCurrency&gt;   &lt; callSetupChargeCurrency&gt;</pre>				
		currencyFactor>[any value]	</th <th></th>		
	<	currencyScale>[any value]<	:/		
Comments					
Message flows	Mg	MGCF		ISUP	
Message flows	Mg INVITE	MGCF →	<b>→</b>	ISUP IAM	
Message flows	INVITE		<b>→</b>		
Message flows	INVITE  CASE A	<b>→</b>		IAM	
Message flows	INVITE		<b>←</b>	IAM APM(crgt)	
Message flows	INVITE  CASE A	<b>→</b>		IAM	
Message flows	INVITE  CASE A  183 Session Progress(crgt)	<b>→</b>	<b>←</b>	IAM APM(crgt)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B	<b>→</b>	<b>←</b>	IAM APM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)	<b>→</b>	<b>←</b> →	APM(crgt) APM(crga)  ACM(crgt)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B	<b>→</b>	<b>←</b>	IAM APM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)	<b>→</b>	<b>←</b> →	APM(crgt) APM(crga)  ACM(crgt)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C	←	<b>←</b> → <b>←</b> →	APM(crgt) APM(crga)  ACM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing	←	<b>←</b> → <b>←</b> →	APM(crgt) APM(crga)  ACM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C	←	+ > + > + +	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing	←	<b>←</b> → <b>←</b> →	APM(crgt) APM(crga)  ACM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)	←	+ > + > + +	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D	←	<b>←→ ←→</b>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing	←	+ > + > + +	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  200 OK INVITE	←	++ ++ +++ +	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing	← ← ← ← ←	++ ++ +++ +	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  200 OK INVITE  ACK	← ← ← ← ←	++ ++ +++ +	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  200 OK INVITE  ACK  INFO(crgt)	÷	++ ++ ++	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)	
Message flows	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  200 OK INVITE  ACK	÷	++ ++ ++ ++ ++	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crga)	

TP number	TP_121_015	Reference	4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Chargin	g/	
Selection criteria	PICS 6.2.1/13		
Test Purpose name	Mapping of ISUP 'tariffSwitch	nCurrency/tariffSwitchove	rTime' into SIP SCI XML
-	'tariffSwitchCurrency/tariffSw		
Test Purpose			rt parameter in an ACM or APM
-			3 Session Progress or 180 Ringing o
	an INFO request is sent. A X		
	The 'tariffSwitchCurrency' - 't	tariffSwitchoverTime <sup>'</sup> para	ameter in the encapsulated charging
	ASE is mapped into the SCI	XML 'tariffSwitchCurrency	y' - 'tariffSwitchoverTime' element.
ISUP Parameter values	APP		
	crgt		
	tariffCurrency		
	tariffSwitchCurren	icy	
	tariffSwitchove	erŤime	
SIP Parameter values	18x/200/INFO:		
	< messageType >		
	< crgt>		
	< chargingTariff>		
	< tariffCurrency>		
	< tariffSwitch		
	< tariffSw	ritchOverTime>	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	CASE A		
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)
			→ APM(crga)
	CASE B		
	180 / 183 (crgt)	<b>←</b>	← ACM(crgt)
			→ APM(crga)
	CASE C		
	180 Ringing	<b>←</b>	← ACM
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)
	3 11 (1 3 )		→ APM(crga)
			(e. ge/
	CASE D		
	180 Ringing	<b>←</b>	← ACM
	200 OK INVITE	<b>←</b>	← ANM
	ACK	<b>→</b>	
	7.0.0	-	
	INFO(crgt)	<b>←</b>	← APM(crgt)
	200 OK INFO	<b>→</b>	→ APM(crga)
	200 010 1101 0	Apply post test rou	
	1	Apply post test lou	11110

TP number	TP_121_016 Refere	nce	4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Charging/				
Selection criteria	PICS 6.2.1/13				
Test Purpose name	Mapping of ISUP two sub tariffs in 'cur /currencyFactorScale' into two SIP S communicationChargeSequenceCurre	CI XML 'currentTariffC	Currency/		
Test Purpose	Ensure that on receipt of an ISUP App containing an APP coded as 'Charging an INFO request is sent. A XML 'SCI' of Two sub tariffs in the 'currentTariffCurr' currencyFactorScale' parameter in the	g ASE' a SIP 183 Sess element is present. rency' - 'Communication e encapsulated chargin	ion Progress or 180 Ringing or on ChargeCurrency' -		
	XML two sub tariffs in the 'currentTariff		Caala' alamant		
ISUP Parameter values	'communicationChargeSequenceCurre	ncy - currency-actor	Scale element.		
	crgt tariffCurrency currentTariffCurrency CommunicationChar currencyFactorSe	geCurrency			
	currencyFactors currencyScale	or=[ <i>any value</i> ]			
	CommunicationChar				
	currencyFactorSo	cale			
		or=[ <i>any value</i> ]			
CID Devementes values	currencyScale	e=[any value]			
SIP Parameter values	18x/200/INFO:				
	< messageType >   < crgt>   < chargingTariff>   < tariffCurrency>				
	< currentTariffCurrency	/>			
	< current lariffcurrency> < communicationChargeSequenceCurrency>				
	< currencyFactorScale>				
		actor>[any value] </th <th></th>			
		cale>[ <i>any value</i> ] <br nargeSequenceCurrer	2015		
	< communication of currency Factor		icy>		
		actor>[any value] </th <th></th>			
	< currencyS	cale>[any value] </th <th></th>			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	CASE A				
	183 Session Progress(crgt)	<b>←</b>	APM(crgt) APM(crga)		
	CASE B		( 0 )		
	180 / 183 (crgt)	<b>←</b> →	ACM(crgt) APM(crga)		
	CASE C 180 Ringing 183 Session Progress(crgt) ←	<b>←</b> <b>←</b> →	ACM APM(crgt) APM(crga)		
	CASE D  180 Ringing  200 OK INVITE  ACK  →	<b>+</b>	ACM ANM		
	INFO(crgt) ← 200 OK INFO → Appl	← → y post test routine	APM(crgt) APM(crga)		

TSS reference SIP-ISUP/Basic call/Charging/	
Total Total / Dadio dail/ Orlanging/	
Selection criteria PICS 6.2.1/13	
Test Purpose name  Mapping of ISUP two sub tariffs in 'nextTariffCurrency/CommunicationChargeCurrency/currencyFactorScale' into SIP XML 'nextTariffCurrency/communicationChargeSequenceCurrency/currencyFacto element	
Ensure that on receipt of an ISUP Application transport parameter in an ACM or Al containing an APP coded as 'Charging ASE' a SIP 183 Session Progress or 180 R an INFO request is sent. A XML 'SCI' element is present.  Two sub tariffs in the 'tariffSwitchCurrency' - 'nextTariffCurrency' - 'CommunicationChargeCurrency' - 'currencyFactorScale' parameter in the encaps charging ASE is mapped into the SCI XML two subtariffs in the 'tariffSwitchCurrency' nextTariffCurrency' - 'currencyFactorScale' parameter in the encaps charging ASE is mapped into the SCI XML two subtariffs in the 'tariffSwitchCurrency' element.	inging or ulated cy' -
ISUP Parameter values APP	
tariffCurrency tariffSwitchCurrency nextTariffCurrency CommunicationChargeCurrency currencyFactorScale currencyFactor=[any value] currencyScale=[any value] CommunicationChargeCurrency currencyFactorScale currencyFactorScale currencyFactor=[any value] currencyFactor=[any value]	
SIP Parameter values  18x/200/INFO: <pre></pre>	
Comments	

Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	CASE A 183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crgt)
			<b>→</b>	APM(crga)
	CASE B		-	4014( )
	180 / 183 (crgt)	<b>←</b>	<b>←</b> →	ACM(crgt) APM(crga)
			•	711 Millorga)
	CASE C			
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	183 Session Progress(crgt)	<b>←</b>	<del>(</del>	APM(crgt)
			<b>→</b>	APM(crga)
	CASE D			
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK INVITE	<b>←</b>	<b>←</b>	ANM
	ACK	<b>→</b>		
	INFO(crgt)	<b>←</b>	<b>←</b>	APM(crgt)
	200 OK INFO	<b>→</b>	<b>→</b>	APM(crga)
	-	Apply post test re	outine	· • • • • • • • • • • • • • • • • • • •

TP number	TP_121_018	R	eference		4.6.1/[6]	
TSS reference	SIP-ISUP/Basic call/Charging	g/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of ISUP crgt/origina	ation	dentification' into SIP S	CI XI	ML 'message	Type /
	crgt/originationIdentificatio					
Test Purpose	Ensure that on receipt of an ISUP Application transport parameter in an ACM or APM					
	containing an APP coded as				on Progress	or 180 Ringing or
	an INFO request is sent. A X					
	The 'crgt' - 'originationIdentifi					
	mapped into the SCI XML 'm	essa	age I ype' - 'crgt' - 'origin	ation	Identification	element.
ISUP Parameter values	APP .					
	crgt					
	originationIdentification					
	networkIdentificati referenceID	ion				
SIP Parameter values	18x/200/INFO:					
Sir raiailletei values	16X/200/INFO.					
	< messageType >					
	< crgt>					
	< originationIdentific	ation	)>			
	< networkIdentifi					
	< referenceID>					
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	CASE A					
	183 Session Progress(crgt)	<b>←</b>		<b>←</b>	APM(crgt)	
				<b>→</b>	APM(crga)	
	CASE B					
	180 / 183 (crgt)	<b>←</b>		<b>←</b>	ACM(crgt)	
				<b>→</b>	APM(crga)	
	CASE C	_		_		
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
	183 Session Progress(crgt)	<b>←</b>		<b>←</b>	APM(crgt)	
				<b>→</b>	APM(crga)	
	CASE D	-		_		
	180 Ringing	<b>←</b>		<del>(</del>	ACM	
	200 OK INVITE	<b>+</b>		<b>←</b>	ANM	
	ACK	<b>→</b>				
	INICO(orat)	_		_	Λ DN 4/ ~ " ~ +\	
	INFO(crgt)	<b>←</b>		<del>-</del>	APM(crgt)	
	200 OK INFO	7	Apply post tost routin	<b>→</b>	APM(crga)	
			Apply post test routing	IE		

TP number	TP_121_019	Reference	4.6.1/ [6]
TSS reference	SIP-ISUP/Basic call/Chargin		1 [-]
Selection criteria	PICS 6.2.1/13	<u>5</u>	
Test Purpose name		ncy' into SIP SCI XML 'messa	ageType / crgt/currency' element
Test Purpose		ISUP Application transport pa	
			ession Progress or 180 Ringing or
	an INFO request is sent. A X	(ML 'SCI' element is present.	
			ging ASE is mapped into the SCI
		'currency' element or the XM	IL element is not present.
ISUP Parameter values	APP		
	crgt		
	currency		
SIP Parameter values	18x/200/INFO:		
	_		
	< messageType >		
	< crgt>		
Comments	< currency>		
Message flows	Mg	MGCF	ISUP
Wessage nows	INVITE		→ IAM
	IIIVII E	•	IAW
	CASE A		
	183 Session Progress(crgt)	<b>←</b>	← APM(crgt)
	Too Cooler Trogross(org.)		→ APM(crga)
			2 / ii iii(orga)
	CASE B		
	180 / 183 (crgt)	<b>←</b>	← ACM(crgt)
	(3.94)		→ APM(crga)
			- /(s. ga)
	CASE C		
	180 Ringing	<b>←</b>	<b>←</b> ACM
	183 Session Progress(crgt)	<b>←</b>	← APM(crgt)
		•	→ APM(crga)
	CASE D		
	180 Ringing	<b>←</b>	← ACM
	200 OK INVITE	<b>←</b>	<b>←</b> ANM
	ACK	<b>→</b>	
	INFO(crgt)	=	← APM(crgt)
	200 OK INFO	=	→ APM(crga)
		Apply post test routine	9

TP number	TP_121_020	Reference	4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/0	Charging/	,
Selection criteria	PICS 6.2.1/13		
Test Purpose name	Mapping of ISUP 'aod	crg / chargingControlIndicato	rs' into SIP SCI XML body 'aocrg /
	'chargingControllno	dicators'	
Test Purpose			sport parameter in an APM containing a
			alogue, an INFO request is sent. An XML
	'SCI' element is prese		
			ateChangeOfActuallyAppliedTariff'
			apped into the SCI XML 'aocrg' -
	0 0	cators' - 'immediateChangeO'	ActuallyAppliedTariff' element in the
ISUP Parameter values	INFO request.		
150F Farameter values	APP		
	aocrg		
		controllndicators	
		liateChangeOfActuallyApplie	dTariff
SIP Parameter values	INFO:		
	< messageType	>	
	< aocrg>		
		ontrolIndicators>	
	< immedi	iateChangeOfActuallyApplied	ITariff>
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	180 Ringing	<del>-</del>	← ACM
	200 OK INVITE	<del>-</del>	← ANM
	ACK	<b>→</b>	
	INFO(aocrg)	<b>←</b>	← APM(aocrg)
	200 OK INFO	<b>→</b>	→ APM(crga)
		Apply post test	` ` ,

TP number	TP_121_021	Reference	4.6.1/[6]			
TSS reference	SIP-ISUP/Basic call/Ch	arging/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	'addOnChargeCurrency	Mapping of ISUP 'aocrg / addOnChargeCurrency' into SIP SCI XML body 'aocrg / 'addOnChargeCurrency'				
Test Purpose	Ensure that on receipt of an ISUP Application transport parameter in an APM containing an APP coded as 'Charging ASE' in the confirmed dialogue, an INFO request is sent. An XML 'SCI' element is present.  The 'aocrg' - 'addOnChargeCurrency' - 'currencyFactorScale' parameter in the encapsulated charging ASE is mapped into the SCI XML 'aocrg' - 'addOnCharge' - 'addOnChargeCurrency' element in the INFO request.					
ISUP Parameter values	currer	eCurrency FactorScale ncyFactor=[any value] ncyScale=[any value]				
SIP Parameter values	< curren	e> argeCurrency> ncyFactor>[any value] <br ncyScale>[any value] </th <th></th>				
Comments						
Message flows	Mg INVITE 180 Ringing 200 OK INVITE ACK INFO(aocrg) 200 OK INFO	MGCF	ISUP  → IAM ← ACM ← ANM  ← APM(aocrg) → APM(crga)			

TP number	TP_121_022	Reference	4.6.1/ [6]			
TSS reference	SIP-ISUP/Basic call/Chargi	ng/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of ISUP 'aocrg / originationIdentification' into SIP SCI XML body 'aocrg / 'originationIdentification'					
Test Purpose	Ensure that on receipt of an ISUP Application transport parameter in an APM containing an APP coded as 'Charging ASE' in the confirmed dialogue, an INFO request is sent. An XML 'SCI' element is present.  The 'aocrg' - 'originationIdentification' parameter in the encapsulated charging ASE is mapped into the SCI XML 'aocrg' - 'originationIdentification' element in the INFO request.					
ISUP Parameter values	APM APP aocrg originationIdentif networkIdent referenceID					
SIP Parameter values	INFO:  < messageType >  < aocrg>  < originationIdentifi  < networkIdenti  < referenceID>					
Comments						
Message flows	Mg INVITE 180 Ringing 200 OK INVITE ACK INFO(aocrg)	MGCF → ← ← →	ISUP  → IAM ← ACM ← ANM  ← APM(aocrg)			
	200 OK INFO → APM(crga)  Apply post test routine					

TP number	TP_121_023	Reference	4.6.1/[6]		
TSS reference	SIP-ISUP/Basic call/Charging/				
Selection criteria	PICS 6.2.1/13				
Test Purpose name	Mapping of ISUP 'aocrg / curre	ency' into SIP SCI XML body 'a	ocrg / 'currency'		
Test Purpose	Ensure that on receipt of an ISUP Application transport parameter in an APM containing an				
	APP coded as 'Charging ASE' in the confirmed dialogue, an INFO request is sent. An XML				
	'SCI' element is present.				
	The 'aocrg' - 'currency' parameter in the encapsulated charging ASE is mapped into the				
	SCI XML 'aocrg' - 'currency' element in the INFO request.				
ISUP Parameter values	APM				
	APP				
	aocrg				
	currency				
SIP Parameter values	INFO:				
	_				
	< messageType >				
	< aocrg>				
0	< currency>				
Comments		W005	IOLID		
Message flows	Mg	MGCF	ISUP		
		<b>→</b>	IAM		
	100 111191119	<del>-</del>	ACM		
		<del>•</del> •	ANM		
	ACK ·	→			
		_			
	(3)	<del>(</del>	APM(aocrg)		
	200 OK INFO	<b>→</b>	APM(crga)		
		Apply post test routine			

### 6.1.3.2 Outgoing Call Interworking O-MGCF

TP number	TP_221_001		Reference		4.6.1/[6]	
TSS reference	ISUP-SIP/Basic call/	Charging/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of SCI XML into ISUP crgt basic function					
Test Purpose	Ensure that on receipt of a 183 Session Progress, 180 Ringing or INFO request containing a XML SCI SIP message body an APM or ACM message is sent and an ISUP APP					
	parameter is present. The Application context Identifier is set to 'Charging ASE' and the					
	XML SCI SIP message body is mapped into the APP encapsulated information.					
ISUP Parameter values	APM					
	APP					
	Application Context Identifier '0000011' (Charging ASE)					
	0000011	(Charging A	(SE)			
	Enconculator	A Application	Information			
	Encapsulated	related Infor				
SIP Parameter values	18x/200/INFO	related IIIIOI	mauon			
on randictor values	XML SIP Transfe	er of Tariff				
Comments	AIVIE OII TIAITOIC	or or raini				
Message flows	ISUP		MGCF		Mg	
	IAM	<b>→</b>		<b>→</b>	INVITE	
	CASE A					
	APM(crgt)	<b>←</b>		<b>←</b>	183 Session Progress(crgt)	
	APM(crga)	<b>→</b>			3 ( - 3 - )	
	(* 3*)					
	CASE B					
	ACM(crgt)	<b>←</b>		<b>←</b>	180 Ringing(crgt)	
	APM(crga)	<b>→</b>			3 3 3 7	
	, , ,					
	CASE C					
	ACM	<b>←</b>		<b>←</b>	180 Ringing	
	CPG(crgt)	<b>←</b>		<b>←</b>	183 Session Progress(crgt)	
	APM(crga)	<b>→</b>				
	CASE D					
	ACM	<b>←</b>		<b>←</b>	180 Ringing	
	ANM	<b>←</b>		<b>←</b>	200 OK INVITE(crgt)	
				→	ACK	
	APM(crgt)	<b>←</b>		<b>←</b>	INFO(crgt)	
	APM(crga)	<b>→</b>		→	200 OK INFO	
	Apply post test routine				ne	

TP number	TP_221_002	IR	Reference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca				1
Selection criteria	PICS 6.2.1/13	, e			
Test Purpose name		//L 'immediate	ChangeOfActuall	ilaaAv	iedTariff' into ISUP APP crgt
Tool I all pool I allie	'chargingControlln				
Test Purpose					Ringing or INFO request containing
•					ge is sent and an ISUP APP
	parameter is prese				
	The XML SCI 'crgt		ntrollndicators' -		
				nt is m	apped into the ISUP APP
	encapsulated Cha	rging ASE 'crg	t' - 'chargingCont	rollndi	icators' -
	'immediateChange	OfActuallyApp	oliedTariff' param	eter.	
ISUP Parameter values	APP		•		
	crgt				
		ntrollndicators	;		
	immedia	ateChangeOfA	ctuallyAppliedTa	riff =1	
SIP Parameter values	18x/200/INFO:				
	< messageType	>			
	< crgt>				
		gControlIndicat			
	< imm	ediateChange(	OfActuallyApplied	Tariff:	>1 </th
Comments					
Message flows	ISUP		MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
	CASE A				
	APM(crgt)	<b>←</b>		<b>←</b>	183 Session Progress(crgt)
	APM(crga)	<b>→</b>			
	CASE B				
	ACM(crgt)	<b>←</b>		<b>←</b>	180 Ringing(crgt)
	APM(crga)	<b>→</b>			
	, , ,				
	CASE C				
	ACM	<b>←</b>		+	180 Ringing
	CPG(crgt)	<del>-</del>		<del>-</del>	183 Session Progress(crgt)
	APM(crga)	<b>→</b>		-	100 00000111 109.000(019.)
	/(s. g)	_			
	CASE D				
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	ANM	È		÷	200 OK INVITE(crgt)
	7 31 4141	•		÷	ACK
				•	,,,,,,
	APM(crgt)	<b>←</b>		+	INFO(crgt)
	APM(crga)	<b>→</b>		<b>→</b>	200 OK INFO
	Ar M(Ciga)	7	Apply post test	_	

TP number	TP_221_003	Referen	ce	4.6.1/[6]		
TSS reference	ISUP-SIP/Basic ca			1.0.1/ [0]		
Selection criteria	PICS 6.2.1/13	an, ondrying/				
Test Purpose name		ML 'currentTariffCurre	ncv/ communic	ationChargeSequenceCurrency/		
root raipose maine	currencyFactorSca	ale' into ISUP APP cro nargeCurrency/ <b>currer</b>	gt 'currentTariffC	Currency /		
Test Purpose				Ringing or INFO request containing		
l cot i di poco				ge is sent and an ISUP APP		
	parameter is prese			9		
			communicationC	ChargeSequenceCurrency' -		
				APP encapsulated Charging ASE		
		ncy' - 'Communicatior	nChargeCurrent	cy' - 'currencyFactorScale'		
	parameter.					
ISUP Parameter values	APP					
	crgt					
	tariffCu					
		entTariffCurrency				
	9	CommunicationCharg				
		currencyFactorSca				
		currencyFactor currencyScale=				
SIP Parameter values	18x/200/INFO:	currency ocale-	-[arry value]			
on i diamotor faides	TON ZOO/IINI O.					
	< messageType	>				
	< crgt>	•				
	< crgt> < chargingTariff>					
	< tariffCurrency>					
	< currentTariffCurrency>					
	< communicationChargeSequenceCurrency>					
	< currencyFactorScale>					
			ctor>[any value]			
		< currencySca	ale>[ <i>any value</i> ]•	</th		
Comments						
Message flows	ISUP		CF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	CASE A	_	_			
	APM(crgt)	<del>(</del>	<b>←</b>	183 Session Progress(crgt)		
		<b>←</b> →	<b>←</b>	183 Session Progress(crgt)		
	APM(crgt)		<b>←</b>	183 Session Progress(crgt)		
	APM(crgt) APM(crga)		+	183 Session Progress(crgt)		
	APM(crgt) APM(crga)  CASE B	<b>→</b>				
	APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>→</b> ←	<b>+</b>	183 Session Progress(crgt)  180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B	<b>→</b>				
	APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>→</b> ←				
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	<b>→</b> ←				
	APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>→</b> ←				
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C	<b>→</b> ← →	<b>←</b>	180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt)	<b>→</b> <b>←</b> <b>→</b>				
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C	<b>→</b> ← →	<b>←</b>	180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt)	<b>→</b> <b>←</b> <b>→</b>	<b>←</b>	180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)	<b>→</b> <b>←</b> <b>→</b>	<b>←</b>	180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)	→ ← →	<b>*</b>	180 Ringing(crgt)  183 Session Progress(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM	←	<b>+</b>	180 Ringing(crgt)  183 Session Progress(crgt)  180 Ringing		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)	→ ← →	<b>+</b>	180 Ringing(crgt)  183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM	←	<b>+</b>	180 Ringing(crgt)  183 Session Progress(crgt)  180 Ringing		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM ANM	+ → + → + ←	÷	180 Ringing(crgt)  183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt) ACK		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	→ ← → ←	<b>+ + + + +</b>	180 Ringing(crgt)  183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt) ACK  INFO(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM ANM	→ ← → ← ← +	÷	180 Ringing(crgt)  183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt) ACK  INFO(crgt) 200 OK INFO		

TP number	TP_221_004	Refere	nce	4.6.1/[6]
TSS reference	ISUP-SIP/Basic c			, , [6]
Selection criteria	PICS 6.2.1/13	<u> </u>		
Test Purpose name	Mapping of SCI X tariffDuration' into tariffDuration'	ISUP APP crgt 'curr	entTariffCurrency	ationChargeSequenceCurrency/ //CommunicationChargeCurrency/
Test Purpose	a XML SCI SIP m parameter is pres The XML SCI 'cur 'tariffDuration' ele	essage body an APN ent. rrentTariffCurrency' - ment is mapped into	I or ACM message communicationC the ISUP APP er	Ringing or INFO request containing ge is sent and an ISUP APP ChargeSequenceCurrency' - acapsulated Charging ASE by' - 'tariffDuration' parameter.
ISUP Parameter values	Cor	ncy TariffCurrency mmunicationCharge( tariffDuration=[ <i>any v</i>		
SIP Parameter values	18x/200/INFO:  < messageType  < crgt>  < chargin  < tarif	>	/> nargeSequenceC	
Comments				
Message flows	ISUP IAM  CASE A APM(crgt) APM(crga)  CASE B	÷ ÷	GCF →	Mg INVITE  183 Session Progress(crgt)
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	<b>← ← ← ← ←</b>	÷ ÷	180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE
	APM(crgt) APM(crga)	← → Appl	→ ← → y post test routi	ACK INFO(crgt) 200 OK INFO ne

TP number	TP_221_005	Re	eference	4.6.1/[6]
TSS reference	ISUP-SIP/Basic of			[
Selection criteria	PICS 6.2.1/13	gg.		
Test Purpose name	Mapping of SCI X	into ISUP APP c	rgt 'currentTariffCurre	ationChargeSequenceCurrency/ ency/
Test Purpose	a XML SCI SIP m parameter is pres The XML SCI 'cu 'subTariffControl'	nessage body an sent. rrentTariffCurren element is mapp	APM or ACM messa cy' - 'communication ped into the ISUP API	Ringing or INFO request containing ge is sent and an ISUP APP  ChargeSequenceCurrency' - P encapsulated Charging ASE cy' - 'subTariffControl' parameter.
ISUP Parameter values		ncy tTariffCurrency mmunicationCha subTariffControl		
SIP Parameter values		e > ngTariff> ffCurrency> currentTariffCurr < communicati		
Comments				
Message flows	ISUP IAM  CASE A APM(crgt) APM(crga)	→ ← →	MGCF →	Mg INVITE  183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b> →	<b>+</b>	180 Ringing(crgt)
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt)
	CASE D ACM ANM	<b>←</b> <b>←</b>	<b>←</b> <b>←</b>	180 Ringing 200 OK INVITE ACK
	APM(crgt) APM(crga)	<b>←</b> →	← → Apply post test rout	INFO(crgt) 200 OK INFO ine

TP number	TP_221_006	lR	eference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca		CICICIIC		[ <del>4</del> .0.17 [0]
Selection criteria	PICS 6.2.1/13	all/Orlarging/			
Test Purpose name		ML 'currentTari	ffCurrency/ tar	iffContro	olIndicators' into ISUP APP crgt
Toot i dipose name	currentTariffCurre				midicators into 1001 7th 1 Gigt
Test Purpose					Ringing or INFO request containing
	a XML SCI SIP m	essage body ar	n APM or ACM	l messac	ge is sent and an ISUP APP
	parameter is pres				
			ncy' - 'tariffCon	trollndic	ators' element is mapped into the
					rrency' - 'tariffControlIndicators'
	parameter.				
ISUP Parameter values	APP				
	crgt				
	tariffCurrer				
		TariffCurrency			
		ffControlIndicate			
OID Deserved an evel cons		non-cyclicTariff	T = 1		
SIP Parameter values	18x/200/INFO:				
	< mossageType	_			
	< messageType < crgt>	>			
	< chargin	αTariff>			
		fCurrency>			
		currentTariffCu	rrencv>		
		< tariffControl			
Comments					
Message flows	ISUP		MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
	CASE A				
	APM(crgt)	<b>←</b>		<b>←</b>	183 Session Progress(crgt)
	APM(crga)	<b>→</b>			
	CASE B	-		-	422 24 4 4 4
	ACM(crgt)	<del>(</del>		<b>←</b>	180 Ringing(crgt)
	APM(crga)	<b>→</b>			
	0405.0				
	CASE C	_		,	400 Dia sia s
	ACM	<del>(</del>		<del>+</del>	180 Ringing
	CPG(crgt)	•		~	183 Session Progress(crgt)
	APM(crga)	<b>→</b>			
	CASE D				
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	ANM	<del>-</del>		<del>-</del>	200 OK INVITE
	AMINI	•		<b>→</b>	ACK
					7.013
	APM(crgt)	<b>←</b>		<b>←</b>	INFO(crgt)
	APM(crga)	÷		÷	200 OK INFO
	, ii ivi(orga)	•	Apply post te	_	
1			Thhis host te	Ji i Ouli	110

TP number	TP_221_007	Ref	erence	4.6.1/[6]
TSS reference	ISUP-SIP/Basic	call/Charging/		• •
Selection criteria	PICS 6.2.1/13			
Test Purpose name	crgt 'currentTar	iffCurrency/callAtte	mptChargeCurrence	
Test Purpose	Ensure that on	receipt of a 183 Ses	sion Progress, 180	Ringing or INFO request containing
			NPM or ACM messa	ge is sent and an ISUP APP
	parameter is pro			
	the ISLID ADD	current l'ariffCurrency encapsulated Chargi	/ - callAttemptChar	geCurrency' element is mapped into
		argeCurrency' param		illouriency -
ISUP Parameter values	APP	rigocurroncy param	10101.	
	crgt			
	tariffCur			
		entTariffCurrency		
	С	allAttemptChargeCu		
		currencyFactorSo		
		currencyFacto currencyScale		
SIP Parameter values	18x/200/INFO:	Janonoyodale	-Larry values	
	< messageTyp	oe >		
	< crgt>			
		gingTariff>		
		ariffCurrency> ccurrentTariffCurre	ncv	
	\	< callAttemptCh		
			actor>[any value] .</th <th></th>	
			cale>[any value] </th <th></th>	
			<u> </u>	
Comments		_		
Comments Message flows	ISUP		MGCF	Mg
	ISUP IAM	<b>→</b>		
	IAM	<b>→</b>	MGCF	Mg
	IAM CASE A	<u> </u>	MGCF	Mg INVITE
	IAM  CASE A  APM(crgt)	→ ← →	MGCF	Mg
	IAM CASE A	<b>←</b>	MGCF	Mg INVITE
	IAM  CASE A  APM(crgt)  APM(crga)	<b>←</b>	MGCF	Mg INVITE
	CASE A APM(crgt) APM(crga)  CASE B	<b>←</b>	MGCF	Mg INVITE  183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b>	MGCF	Mg INVITE
	CASE A APM(crgt) APM(crga)  CASE B	<b>←</b> →	MGCF →	Mg INVITE  183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b>	MGCF →	Mg INVITE  183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	<b>←</b>	MGCF →	Mg INVITE  183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)	<b>←</b> →	MGCF  ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>←</b> →	MGCF  ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) ACM(crgt) APM(crgt) ACM(crgt) ACM(crga)  CASE C ACM CPG(crgt)	<b>←</b> → <b>←</b> ←	MGCF  ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>←</b> →	MGCF  ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) ACM(crgt) APM(crgt) ACM(crgt) ACM(crga)  CASE C ACM CPG(crgt)	<b>←</b> → <b>←</b> ←	MGCF  ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	<b>←</b> → <b>←</b> ←	MGCF  ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE C ACM CPG(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ → + → + →	MGCF	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ + + + + + + + + + + + + + + + + + +	MGCF	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE
	CASE C ACM CPG(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ → + → + →	MGCF	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	← → ← → ← ← ← ←	MGCF → ← ← ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	+ + + + + + + + + + + + + + + + + + +	MGCF	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK INFO(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + + + + + + + + + + + + + + +	MGCF → ← ← ←	INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt) 200 OK INFO

TP number	TP_221_008	Refer	ence	4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca		51100	+.0.1/ [0]
Selection criteria	PICS 6.2.1/13	all/Orlarging/		
Test Purpose name		ML 'currentTariffCur	rency/callSetun(	ChargeCurrency' into ISUP APP crgt
rest i dipose name	tariffCurrency/ Co	nmunicationCharge	Currency/ callS	SetupChargeCurrency
Test Purpose				Ringing or INFO request containing
10011 0   1000				age is sent and an ISUP APP
	parameter is prese		0. 7 (0.11)	
			'callSetupChard	geCurrency' element is mapped into
	the ISUP APP end	capsulated Charging	ASE 'currentTa	ariffCurrency' -
		Currency' parameter		,
ISUP Parameter values	APP	, , , , , , , , , , , , , , , , , , ,		
	crgt			
	tariffCurrer	ncy		
		TariffCurrency		
	call	SetupChargeCurren	СУ	
		currencyFactorScale		
		currencyFactor=	[any value]	
		currencyScale=[	any value]	
SIP Parameter values	18x/200/INFO:			
	< messageType	>		
	< crgt>			
	< chargin			
		fCurrency>		
		chargingTariff>		
		< currentTariffCurr		
		< callSetupCha		
				-1 ./
			actor>[any valu	
			cator>[ <i>any valu</i> Scale>[ <i>any value</i>	
Comments	10110	< currencyS	Scale>[any value	9] </th
Comments Message flows	ISUP	< currencyS	Scale>[ <i>any value</i>	9] <br Mg
	ISUP IAM	< currencyS	Scale>[any value	<u>Mg</u>
	IAM	< currencyS	Scale>[ <i>any value</i>	9] <br Mg
	IAM CASE A	< currencyS	Scale>[any value MGCF →	Mg • INVITE
	CASE A APM(crgt)	< currencyS	Scale>[ <i>any value</i>	Mg NIVITE
	IAM CASE A	< currencyS	Scale>[any value MGCF →	Mg • INVITE
	CASE A APM(crgt)	< currencyS	Scale>[any value MGCF →	Mg • INVITE
	IAM  CASE A  APM(crgt)  APM(crga)	< currencyS	Scale>[any value MGCF →	Mg • INVITE
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	< currencyS	Scale>[any value MGCF →	Mg • INVITE • 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	< currencyS	Scale>[any value MGCF →	Mg NINVITE 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	< currencyS	Scale>[any value	Mg • INVITE • 183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	< currencyS	Scale>[any value	Mg • INVITE • 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	< currencyS	Scale>[any value	Mg • INVITE • 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	< currencyS	Scale>[any value	Mg • INVITE • 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	< currencyS	Scale>[any value	Mg NINVITE 183 Session Progress(crgt) 180 Ringing(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)  CASE C  ACM	< currencyS	Gcale>[any value	Mg NINVITE 183 Session Progress(crgt) 180 Ringing(crgt)
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt)	< currencyS  A  C  C  C  C  C  C  C  C  C  C  C  C	Gcale>[any value	Mg NINVITE 183 Session Progress(crgt) 180 Ringing(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)  CASE C  ACM	< currencyS	Gcale>[any value	Mg NINVITE 183 Session Progress(crgt) 180 Ringing(crgt)
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt)	< currencyS	Gcale>[any value	Mg NINVITE 183 Session Progress(crgt) 180 Ringing(crgt)
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt)	< currencyS	Gcale>[any value	Mg NINVITE 183 Session Progress(crgt) 180 Ringing(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	< currencyS	Gcale>[any value	Mg NVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)  CASE C  ACM  CPG(crgt)  APM(crga)  CASE D  ACM	< currencyS	AGCF	Mg NINVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)  CASE C  ACM  CPG(crgt)  APM(crga)	< currencyS  A  C  C  C  C  C  C  C  C  C  C  C  C	AGCF  GCAIDE   AND VALUE  AGCF	Mg NINVITE  183 Session Progress(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)  CASE C  ACM  CPG(crgt)  APM(crga)  CASE D  ACM	< currencyS  A  C  C  C  C  C  C  C  C  C  C  C  C	AGCF  GCAIDE   AND VALUE  AGCF  CONTROL  AGCF	Mg NINVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	< currencyS	Gcale>[any value]  IGCF  ←  ←  ←	Mg NOVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM ANM  APM(crgt)	< currencyS	Gcale>[any value	Mg  NVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK INFO(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	< currencyS	Gcale>[any value]  IGCF  ←  ←  ←	Mg  NVITE  183 Session Progress(crgt)  180 Ringing (crgt)  183 Session Progress(crgt)  180 Ringing (crgt)  200 OK INVITE (crgt)  200 OK INFO (crgt)

TP number	TP_221_009	Refe	rence	4.6.1/[6]
TSS reference	ISUP-SIP/Basic call/C		CIICC	[4.0.17 [0]
Selection criteria	PICS 6.2.1/13	marging/		
Test Purpose name		into ISUP APP	crgt 'nextTariffCur	
Test Purpose	Ensure that on receipt a XML SCI SIP messa parameter is present. The XML SCI 'tariffSw 'communicationCharg	t of a 183 Sessi age body an AF vitchCurrency' - ieSequenceCur sulated Chargin	on Progress, 180 M or ACM messa 'nextTariffCurrenc rency' - 'currencyF g ASE 'tariffSwitch	Ringing or INFO request containing ge is sent and an ISUP APP  by -  factorScale' element is mapped into a Currency' - 'nextTariffCurrency' -
ISUP Parameter values	APP crgt tariffCurrency tariffSwitch nextTar Com	Currency iffCurrency nmunicationCha currencyFactors currencyFac	argeCurrency	
SIP Parameter values	< crgt>   < crgt>   < chargingTal   < tariffCur   < tariff   < n	rrency> iSwitchCurrency nextTariffCurrer < communicat		alue] </th
Comments				
Message flows	ISUP IAM	<b>→</b>	MGCF →	<b>M</b> g INVITE
	CASE A APM(crgt) APM(crga)	<b>←</b> →	<b>←</b>	183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b> →	<b>+</b>	180 Ringing(crgt)
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt)
	CASE D ACM ANM	<del>&lt;</del> <del>&lt;</del>	<b>←</b> <b>←</b> <b>→</b>	180 Ringing 200 OK INVITE ACK
	APM(crgt) APM(crga)	<b>←</b> → Ap <sub>l</sub>	← → oly post test rout	INFO(crgt) 200 OK INFO ine

TP number	TP_221_010	Re	ference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic of		10101100		<del>1</del> .0.1/ [0]
Selection criteria	PICS 6.2.1/13	zan/Orlarging/			
Test Purpose name		(ML 'nextTariffCu	rrency / commu	nicati	onChargeSequenceCurrency/
	tariffDuration' into	ISUP APP crgt '	nextTariffCurre	ncy / (	CommunicationChargeCurrency/
Test Purpose	a XML SCI SIP m parameter is pres The XML SCI 'tar	nessage body an sent. iffSwitchCurrency	APM or ACM m /' - 'nextTariffCu	iessa( irrenc	Ringing or INFO request containing ge is sent and an ISUP APP y' - ion' element is mapped into the
	'CommunicationC				rency' - 'nextTariffCurrency' - neter.
ISUP Parameter values		ncy witchCurrency xtTariffCurrency Communication(	Charge Currency	,	
		tariffDuration			
SIP Parameter values	18x/200/INFO:				
		ngTariff> ffCurrency> tariffSwitchCurre < nextTariffCur	rency> cationChargeSe	quen	ceCurrency>
Comments					
Message flows	ISUP	_	MGCF	_	Mg
	CASE A APM(crgt) APM(crga)	<b>→</b> <b>←</b> <b>→</b>		<b>→</b>	183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b> →		<b>←</b>	180 Ringing(crgt)
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>		<b>+</b>	180 Ringing 183 Session Progress(crgt)
	CASE D ACM ANM	<del>&lt;</del>		<b>← ← →</b>	180 Ringing 200 OK INVITE ACK
	APM(crgt) APM(crga)	<b>←</b> →	apply post test	← → routi	INFO(crgt) 200 OK INFO ne

TP number	TP_221_011	Re	ference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic of		10101100		14.0.17 [0]
Selection criteria	PICS 6.2.1/13	all/Orlarging/			
Test Purpose name		(ML 'nextTariffCu	rency / commun	nicatio	onChargeSequenceCurrency/
	subTariffControl' subTariffContro	into ISUP APP cr <b>I</b> '	gt 'nextTariffCur	rency	y / CommunicationChargeCurrency/
Test Purpose	a XML SCI SIP m parameter is pres The XML SCI 'tar 'communicationC	nessage body an sent. iffSwitchCurrency hargeSequenceC	APM or ACM me ' - 'nextTariffCur turrency' - 'subT	essag rrenc ariffC	Control' element is mapped into the
	'CommunicationC	sulated Charging ChargeCurrency' -	ASE 'tariffSwitc 'subTariffContro	hCur ol' pa	rency' - 'nextTariffCurrency' - rameter.
ISUP Parameter values		witchCurrency ktTariffCurrency	Phores Curron		
		Communication			
SIP Parameter values	18x/200/INFO:	subTariffCon	TOI		
		ngTariff> ffCurrency> tariffSwitchCurre < nextTariffCurre < communic		quenc	ceCurrency>
Comments					
Message flows	ISUP	•	MGCF	_	Mg
	CASE A APM(crgt) APM(crga)	<b>→</b> <b>←</b> <b>→</b>		<b>→</b>	INVITE  183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b> →		<b>←</b>	180 Ringing(crgt)
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> →		<b>+</b>	180 Ringing 183 Session Progress(crgt)
	CASE D ACM ANM	<del>(</del>		<b>← ← →</b>	180 Ringing 200 OK INVITE ACK
	APM(crgt) APM(crga)	<b>←</b> →	pply post test	← → routi	INFO(crgt) 200 OK INFO ne

TP number	TP_221_012	Refere	ence	4.6.1/[6]
TSS reference	ISUP-SIP/Basic c	all/Charging/		
Selection criteria	PICS 6.2.1/13			
Test Purpose name				dicators' into ISUP APP crgt
		cy / tariffControlIndi		
Test Purpose				Ringing or INFO request containing
			Ո or ACM messag	ge is sent and an ISUP APP
	parameter is pres			
	The XML SCI 'tar	iffSwitchCurrency' - '	nextTariffCurrency	y' - 'tariffControlIndicators' element
				SE 'tariffSwitchCurrency' -
ISUP Parameter values	APP	cy' - 'tariffControlIndio	alois parameter.	
SOF Farameter values	crgt			
	tariffCurre	ncv		
	tariffSv	vitchCurrency		
		ktTariffCurrency		
		tariffControlIndicator	S	
		non-cyclicTariff		
SIP Parameter values	18x/200/INFO:	•		
	< messageType	>		
	< crgt>			
	< chargin			
		ffCurrency>		
	<	tariffSwitchCurrency		
		< nextTariffCurrence < tariffControllr		
Comments		< tariffcontrolli	ulcators>	
Message flows	ISUP	1	IGCF	Mg
message nems	IAM	→		
T .		7	→	INVITE
	IAW	7	7	INVITE
	CASE A	7	7	INVITE
		<b>+</b>	<b>→</b>	
	CASE A	-	_	183 Session Progress(crgt)
	CASE A APM(crgt)	<b>←</b>	_	
	CASE A APM(crgt)	<b>←</b>	_	
	CASE A APM(crgt)	<b>←</b>	_	
	CASE A APM(crgt) APM(crga)	<b>←</b>	_	
	CASE A APM(crgt) APM(crga)  CASE B	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)  180 Ringing(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>←</b> →	<b>←</b>	<ul><li>183 Session Progress(crgt)</li><li>180 Ringing(crgt)</li><li>180 Ringing</li></ul>
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	+ → + → + ←	<b>+</b>	183 Session Progress(crgt)  180 Ringing(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>←</b> →	<b>←</b>	<ul><li>183 Session Progress(crgt)</li><li>180 Ringing(crgt)</li><li>180 Ringing</li></ul>
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	+ → + → + ←	<b>←</b>	<ul><li>183 Session Progress(crgt)</li><li>180 Ringing(crgt)</li><li>180 Ringing</li></ul>
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ → + → + ←	<b>←</b>	<ul><li>183 Session Progress(crgt)</li><li>180 Ringing(crgt)</li><li>180 Ringing</li></ul>
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	← → ← → ← →	<b>+</b>	<ul><li>183 Session Progress(crgt)</li><li>180 Ringing(crgt)</li><li>180 Ringing</li><li>183 Session Progress(crgt)</li></ul>
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	+ + + + +	÷	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	← → ← → ← →	+ + + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	+ + + + +	÷	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + + + + + + + + + + + + + + +	÷ + + + + + + + + + + + + + + + + + + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	+ + + + + + + + + + + + + + + + + + +	+ + + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK INFO(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + + + + + + + + + + + + + + +	÷ + + + + + + + + + + + + + + + + + + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt) 200 OK INFO

TP number	TP_221_013	F	Reference		4.6.1/[6]		
TSS reference	ISUP-SIP/Basic ca		1010101100		11.0.17 [0]		
Selection criteria	PICS 6.2.1/13	, e g g.					
Test Purpose name		ML 'nextTariffC	Currency / callA	ttemptCl	hargeCurrency' into ISUP APP crgt		
•	'nextTariffCurrenc				ŷ ,		
Test Purpose	Ensure that on red	ceipt of a 183 S	Session Progre	ss, 180 F	Ringing or INFO request containing		
			in APM or ACM	1 messag	ge is sent and an ISUP APP		
	parameter is prese						
					y' - 'callAttemptChargeCurrency'		
					narging ASE 'tariffSwitchCurrency' -		
		y' - 'callAttemp	tChargeCurrer	ncy' - 'cur	rencyFactorScale' parameter.		
ISUP Parameter values	APP						
	crgt	201					
	tariffCurrer	itchCurrency					
		tTariffCurrency	,				
		callAttemptCh					
		currencyFa					
			cyFactor=[ <i>any</i> v	/alue1			
			cyScale=[ <i>any va</i>				
SIP Parameter values	18x/200/INFO:						
	< messageType	>					
	< crgt>						
	< chargin						
		fCurrency>					
	< tariffSwitchCurrency>						
	< nextTariffCurrency>						
					-1		
			encyFactor>[ <i>ai</i> encyScale>[ <i>an</i>				
Camanant-		< cuii	encyscale>[arr	y valuejs	· · · ·		
u.omments							
Comments Message flows	ISUP		MGCF		Ma		
Message flows	ISUP	<b>→</b>	MGCF	<b>→</b>	Mg INVITE		
	ISUP	<b>→</b>	MGCF	<b>→</b>	Mg INVITE		
		<b>→</b>	MGCF	<b>→</b>	<u> </u>		
	IAM CASE A	<b>→</b>	MGCF	<b>→</b>	INVITE		
	CASE A APM(crgt)	_	MGCF	_	<u> </u>		
	IAM CASE A	<b>←</b>	MGCF	_	INVITE		
	CASE A APM(crgt)	<b>←</b>	MGCF	_	INVITE		
	CASE A APM(crgt)	<b>←</b>	MGCF	_	INVITE		
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	<b>←</b>	MGCF	_	INVITE  183 Session Progress(crgt)		
	IAM  CASE A  APM(crgt)  APM(crga)	<b>←</b>	MGCF	_	INVITE		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b> →	MGCF	_	INVITE  183 Session Progress(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b> →	MGCF	_	INVITE  183 Session Progress(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b> →	MGCF	_	INVITE  183 Session Progress(crgt)		
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>←</b> → <b>←</b>	MGCF	÷	183 Session Progress(crgt)  180 Ringing(crgt)		
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt)	+ + + +	MGCF	<b>+</b>	183 Session Progress(crgt)  180 Ringing(crgt)		
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>←</b> → <b>←</b>	MGCF	÷	183 Session Progress(crgt)  180 Ringing(crgt)		
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt)	+ + + +	MGCF	÷	183 Session Progress(crgt)  180 Ringing(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ + + +	MGCF	÷	183 Session Progress(crgt)  180 Ringing(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ → + → + →	MGCF	+	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)		
	CASE B ACM(crgt) APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	+ + + + +	MGCF	+ + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ → + → + →	MGCF	+ ++	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE		
	CASE B ACM(crgt) APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	+ + + + +	MGCF	+ + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + + + + + + + + + + + + + + +	MGCF	+ + ++	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	++ ++ ++	MGCF	+ + ++ +++	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt)		
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + + + + + + + + + + + + + + +	MGCF Apply post to	+ + ++ +++ ++	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt) 200 OK INFO		

TP number	TP_221_014	F	Reference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic c		1010101100		1.10.17 [0]
Selection criteria	PICS 6.2.1/13	gg.			
Test Purpose name		ML 'nextTariffC	Currency / callS	etupCha	argeCurrency' into ISUP APP crgt
•	'nextTariffCurrenc				3
Test Purpose	Ensure that on red	ceipt of a 183 S	Session Progre	ss, 180 F	Ringing or INFO request containing
			in APM or ACM	l messag	ge is sent and an ISUP APP
	parameter is pres				
					y' - 'callSetupChargeCurrency'
					arging ASE 'tariffSwitchCurrency' -
		cy' - 'callSetupC	ChargeCurrency	/' - 'curre	encyFactorScale' parameter.
ISUP Parameter values	APP				
	crgt	201			
	tariffCurrer	vitchCurrency			
		dTariffCurrency	,		
		callSetupChar			
		currencyFa			
			cyFactor=[ <i>any</i> v	/aluel	
			cyScale=[ <i>any va</i>		
SIP Parameter values	18x/200/INFO:				
	< messageType	>			
	< crgt>				
	< chargin				
		fCurrency>			
		tariffSwitchCur			
		< nextTariffC			
			pChargeCurre		J
			encyFactor>[ <i>ar</i>		
		< cum	encyScale>[an	v vanner<	5/
Comments				<i>,</i>	
Comments Message flows	ISUP			,	
Comments Message flows	ISUP		MGCF		Mg
	ISUP	<b>→</b>		<del>→</del>	
	IAM				Mg
	IAM  CASE A	<b>→</b>			Mg INVITE
	CASE A APM(crgt)			<b>→</b>	Mg
	IAM  CASE A	<b>→</b>		<b>→</b>	Mg INVITE
	CASE A APM(crgt)	<b>→</b>		<b>→</b>	Mg INVITE
	CASE A APM(crgt)	<b>→</b>		<b>→</b>	Mg INVITE
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	<b>→</b>		<b>→</b>	Mg INVITE  183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)	<b>→</b>		<b>→</b>	Mg INVITE
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	→ ← →		<b>→</b>	Mg INVITE  183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)	→ ← →		<b>→</b>	Mg INVITE  183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)	→ ← →		<b>→</b>	Mg INVITE  183 Session Progress(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)	→ ← →		<b>→</b>	Mg INVITE  183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)	→ ← →		→ ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM	+ + + + +		→ ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)  CASE C  ACM  CPG(crgt)	+ + + +		→ ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM  CPG(crgt) APM(crga)	+ + + +		→ ←	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ + + + + + +		÷ ++	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM	+ + + + + +		÷ + + + + +	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	+ + + + + + +		* * * * * * * * * * * * * * * * * * *	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE
	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM	+ + + + + +		÷ + + + + +	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + +		<b>+</b> + ++ +++	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	+ + + + + +		<b>+</b> + ++ +++	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK INFO(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + +		<b>+</b> + ++ +++	Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK INFO(crgt) 200 OK INFO

TP number TP_221_015 Reference TSS reference ISUP-SIP/Basic call/Charging/ Selection criteria PICS 6.2.1/13 Test Purpose name Mapping of SCI XML 'tariffSwitchCurrency/ tariffSwitchOverTime'	4.6.1/ [6]				
Selection criteria         PICS 6.2.1/13           Test Purpose name         Mapping of SCI XML 'tariffSwitchCurrency/ tall'					
'tariffSwitchCurrency / tariffSwitchoverTime'	Mapping of SCI XML 'tariffSwitchCurrency/ tariffSwitchoverTime' into ISUP APP crgt				
	-				
Test Purpose Ensure that on receipt of a 183 Session Progr					
a XML SCI SIP message body an APM or AC	CM message is sent and an ISUP APP				
parameter is present.					
The XML SCI 'tariffSwitchCurrency' - 'tariffSwi					
ISUP APP encapsulated Charging ASE 'tariffs'	SwitchCurrency' - 'tariffSwitchoverTime'				
parameter.  ISUP Parameter values APP					
crgt					
tariffCurrency tariffSwitchCurrency					
tariffSwitchoverTime					
SIP Parameter values 18x/200/INFO:					
10,720,711,100					
< messageType >					
< crgt>					
< chargingTariff>					
< tariffCurrency>					
< tariffSwitchCurrency>					
< tariffSwitchOverTime>					
Comments					
Message flows ISUP MGCF	Mg				
IAM →	→ INVITE				
CASE A					
APM(crgt) ←	← 183 Session Progress(crgt)				
APM(crga) →	103 Session Flogress(crgt)				
Ai M(Giga)					
CASE B					
ACM(crgt) ←	← 180 Ringing(crgt)				
APM(crga) →	t 100 Kinging(orgt)				
, ii iii(orga)					
CASE C					
ACM ←	← 180 Ringing				
CPG(crgt) ←	← 183 Session Progress(crgt)				
APM(crga) →	3 ( 3 /				
CASE D					
ACM ←	← 180 Ringing				
ANM ←	← 200 OK INVITE				
	→ ACK				
APM(crgt) ←	← INFO(crgt)				
APM(crga) →	→ 200 OK INFO				
Apply post	test routine				

I=					1 /
TP number	TP_221_016		Reference		4.6.1/ [6]
TSS reference	ISUP-SIP/Basic ca	ıll/Charging/			
Selection criteria	PICS 6.2.1/13				
Test Purpose name	'tariffCurrency/ Cor	argeSequence mmunicationC	Currency/ curr hargeCurrency	encyFac // <b>curre</b> n	
Test Purpose	a XML SCI SIP me parameter is prese The <b>two</b> XML SCI 'currencyFactorSca Charging ASE 'cur'currencyFactorSca	essage body a ent. 'currentTariffC ale' elements a rentTariffCurre	n APM or ACM Currency' - 'com are mapped int ency' - 'Commu	I messag nmunicat o the <b>tw</b> e	Ringing or INFO request containing ge is sent and an ISUP APP ionChargeSequenceCurrency' -  o ISUP APP encapsulated ChargeCurrency' -
ISUP Parameter values		entTariffCurrer Communication currencyFa currenc currenc Communication currencyFa	nChargeCurrer lctorScale yFactor=[ <i>any v</i> yScale=[ <i>any v</i> anChargeCurrer lctorScale	ralue] alue] ncy	
			yFactor=[ <i>any</i> v	-	
SIP Parameter values	18x/200/INFO:	currenc	yScale=[ <i>any va</i>	alue]	
Comments	< c	Currency> currentTariffCu communica currency curre curre communica currency currency	rrency> tionChargeSec yFactorScale> encyFactor>[ar encyScale>[an tionChargeSec yFactorScale> encyFactor>[ar encyScale>[an	ny value] y value]< quenceC ny value]	</  urrency
Comments	IOUD		МООБ		
Message flows	ISUP IAM CASE A	<b>→</b>	MGCF	<b>→</b>	<b>Mg</b> INVITE
	APM(crgt) APM(crga)	<b>←</b> →		<b>←</b>	183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b> →		<b>←</b>	180 Ringing(crgt)
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>		<del>+</del> +	180 Ringing 183 Session Progress(crgt)
	CASE D ACM ANM	<b>←</b>		<b>←</b> <b>←</b> <b>→</b>	180 Ringing 200 OK INVITE ACK
	APM(crgt) APM(crga)	<b>←</b> →	Apply post te	← → est routi	INFO(crgt) 200 OK INFO ne

TP number	TP_221_017	Refe	rence	4.6.1/[6]		
TSS reference	ISUP-SIP/Basic of			, [6]		
Selection criteria	PICS 6.2.1/13	Jan, Griaiging,				
Test Purpose name	Mapping of two S	CI XML 'nextTariffCcale' into ISUP APP		icationChargeSequenceCurrency/ rency /		
		hargeCurrency/ cu				
Test Purpose	a XML SCI SIP m parameter is pres	Ensure that on receipt of a 183 Session Progress, 180 Ringing or INFO request containing a XML SCI SIP message body an APM or ACM message is sent and an ISUP APP parameter is present.				
	'communicationC	The <b>two</b> XML SCI 'tariffSwitchCurrency' - 'nextTariffCurrency' - 'communicationChargeSequenceCurrency' - 'currencyFactorScale' elements are mapped into the <b>two</b> ISUP APP encapsulated Charging ASE 'tariffSwitchCurrency' -				
				- 'currencyFactorScale' parameters.		
ISUP Parameter values	APP					
		witchCurrency xtTariffCurrency CommunicationCh currencyFactor currencyFa	Scale ctor=[ <i>any value</i> ] ale=[ <i>any value</i> ]			
		currencyFactor				
			ctor=[ <i>any value</i> ]			
		currencySc	ale=[ <i>any value</i> ]			
SIP Parameter values	18x/200/INFO: < messageType	· >				
	< crgt> < chargir < tarif <	ngTariff> ffCurrency> tariffSwitchCurrency < nextTariffCurre < communica: < currency < currer < communica: < currer < currer < currency < currency < currency < currency	ncy> tionChargeSequency FactorScale> encyFactor>[any valencyScale>[any valetionChargeSequencyFactorScale> encyFactorScale> encyFactor>[any valetionChargeSequencyFactorScale>	lue] ue]</  ceCurrency lue] ue]</</th		
Message flows	ISUP	_	MGCF	Mg		
	CASE A APM(crgt) APM(crga)	<b>→</b> ← →	<b>→</b>	INVITE  183 Session Progress(crgt)		
	CASE B ACM(crgt) APM(crga)	<b>←</b> →	<b>←</b>	180 Ringing(crgt)		
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt)		
	CASE D ACM ANM	<b>←</b> <b>←</b>	<b>←</b> <b>←</b>	180 Ringing 200 OK INVITE ACK		
	APM(crgt) APM(crga)	<b>←</b> → Ap	← → ply post test routi	INFO(crgt) 200 OK INFO ne		

TP number	TP_221_018	F	Reference		4.6.1/[6]	
TSS reference	ISUP-SIP/Basic ca	all/Charging/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	'originationIdenti	Mapping of SCI XML 'messageType / crgt / originationIdentification' into ISUP APP crgt 'originationIdentification'				
Test Purpose	a XML SCI SIP me parameter is presented.	essage body a ent. t' - 'originationI	n APM or ACM dentification' ele	l messaç ement is	Ringing or INFO request containing ge is sent and an ISUP APP smapped into the ISUP APP attention parameter.	
ISUP Parameter values	network referen	Identification kIdentification ceID				
SIP Parameter values	< netv	> ionIdentificatio vorkIdentificatio enceID>				
Comments	IOLID		МООБ			
Message flows	ISUP IAM  CASE A APM(crgt) APM(crga)	<b>→ ← →</b>	MGCF	<b>→</b>	Mg INVITE  183 Session Progress(crgt)	
	CASE B ACM(crgt) APM(crga)	<b>←</b> →		<b>←</b>	180 Ringing(crgt)	
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>		<b>+</b>	180 Ringing 183 Session Progress(crgt)	
	CASE D ACM ANM	<del>(</del>		<b>← ← →</b>	180 Ringing 200 OK INVITE ACK	
	APM(crgt) APM(crga)	<b>←</b> →	Apply post to	← →	INFO(crgt) 200 OK INFO	
<b>i</b>	Apply post test routine					

			Reference	4.6.1/[6]
TSS reference	ISUP-SIP/Basic call	/Charging/		
Selection criteria	PICS 6.2.1/13			
Test Purpose name	Mapping of SCI XMI	L 'messageT	ype / crgt / currency	into ISUP APP crgt 'currency'
Test Purpose	a XML SCI SIP mes parameter is presen	sage body a it. · 'currency' e	n APM or ACM mess lement is mapped int	0 Ringing or INFO request containing sage is sent and an ISUP APP to the ISUP APP encapsulated
ISUP Parameter values	APP			
	crgt currency			
SIP Parameter values	18x/200/INFO:			
	< messageType < crgt> < currency>	>		
Comments				
Message flows	ISUP IAM	<b>→</b>	MGCF	Mg INVITE
	CASE A APM(crgt) APM(crga)	<b>←</b> →	•	183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b> →	•	= 180 Ringing(crgt)
	CASE C ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>	<del>(</del>	
	CASE D ACM ANM	<del>+</del>	<del>(</del>	200 OK INVITE
	APM(crgt) APM(crga)	<b>←</b> →	Apply post test rou	200 OK INFO

TP number	TP_221_020	Ref	erence	4.6.1/[6]		
TSS reference	ISUP-SIP/Basic cal	I/Charging/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of SCI XM	L 'aocrg / charg	ingControlIndicators	into ISUP APP aocrgt		
-	'chargingControllr			•		
Test Purpose	Ensure that on rece	Ensure that on receipt of an INFO request containing a XML SCI SIP message body in the				
		confirmed dialogue an ISUP APM message is sent and an ISUP APP parameter is present.				
	The XML SCI 'aocro					
				apped into the ISUP APP		
			' - 'chargingControllr	ndicators' -		
	'immediateChange(	OfActuallyApplie	dTariff' parameter.			
ISUP Parameter values	APM					
	APP					
	aocrg					
		Controllndicator				
		ediateChangeOf	<u>ActuallyAppliedTariff</u>			
SIP Parameter values	INFO:					
	. maaaaaaTuna					
	< messageType	>				
	<u> </u>	< aocrg>				
		< chargingControlIndicators> < immediateChangeOfActuallyAppliedTariff>				
Comments	\ IIIIII0	diateonarigeon	totaany/ tppnca rann			
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		
	APM(aocrg)	<b>←</b>	<b>←</b>	INFO(aocrg)		
	APM(crga)	<b>→</b>	<b>→</b>	200 OK INFO		
	( 3)	Α	pply post test routi			

TP number	TP_221_021	Ref	erence		4.6.1/[6]	
TSS reference	ISUP-SIP/Basic cal	II/Charging/				
Selection criteria	PICS 6.2.1/13	<u> </u>				
Test Purpose name			nCharge / add	OnCharg	eCurrency' into ISUP APP	
	aocrgt 'addOnChai					
Test Purpose					L SCI SIP message body in the	
					ISUP APP parameter is present.	
					rency' element is mapped into	
		apsulated Charg	ng ASE 'aocrg	' - 'addOı	nChargeCurrency' parameter.	
ISUP Parameter values	APM					
	APP					
	aocrg	h = u = 0				
		hargeCurrency encyFactorScale				
		urrencyFactor=[	any valuel			
		urrencyScale=[a				
SIP Parameter values	INFO:	arrency ocale=[a	ny valuej			
on randings, raides						
	< messageType	>				
	< aocrg>					
	< addOnCharge>					
		< addOnChargeCurrency>				
	< currencyFactor>[any value] </th					
	< Cl	urrencyScale>[ai	ny value] </th <th></th> <th></th>			
Comments						
Message flows	ISUP		MGCF		Mg	
	IAM	→			NVITE	
	ACM	<b>←</b>			80 Ringing	
	ANM	<b>←</b>		_	00 OK INVITE	
				<b>→</b> A	CK	
	APM(aocrg)	<b>←</b>		<b>←</b> IN	NFO(aocrg)	
	APM(crga)	<b>→</b>			00 OK INFO	
	(- 3-7	A	oply post test	routine	-	

TP number	TP_221_022	Referei	псе	4.6.1/[6]		
TSS reference	ISUP-SIP/Basic call	I/Charging/				
Selection criteria	PICS 6.2.1/13					
Test Purpose name	Mapping of SCI XM	L 'aocrg / origination	nIdentification' in	nto ISUP APP aocrgt		
	'originationIdentifi	cation'		-		
Test Purpose				XML SCI SIP message body in the		
				an ISUP APP parameter is present.		
				t is mapped into the ISUP APP		
	encapsulated Charg	ging ASE 'aocrg' - 'o	riginationIdentifi	ication' parameter.		
ISUP Parameter values	APM					
	APP					
	aocrg					
		nldentification				
		orkIdentification				
		enceID				
SIP Parameter values	INFO:					
	< messageType	>				
		< aocrg>				
	< originationIdentification> < networkIdentification>					
	< referenceID>					
Comments	<u> </u>	iliceid>				
Message flows	ISUP	Me	GCF	Mq		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	+	180 Ringing		
	ANM	<b>←</b>	+	200 OK INVITE		
			<b>→</b>	ACK		
	APM(aocrg)	<b>←</b>	<b>←</b>	INFO(aocrg)		
	APM(crga)	<b>→</b>	<b>→</b>	200 OK INFO		
	(= 3-7	Apply	post test routi	ine		

TP number	TP_221_023	Ref	erence	4.6.1/[6]		
TSS reference	ISUP-SIP/Basic call/	/Charging/				
Selection criteria	PICS 6.2.1/13	<u> </u>				
Test Purpose name	Mapping of SCI XML	Mapping of SCI XML 'aocrg / currency' into ISUP APP aocrgt 'currency'				
Test Purpose	confirmed dialogue a The XML SCI 'aocrg	Ensure that on receipt of an INFO request containing a XML SCI SIP message body in the confirmed dialogue an ISUP APM message is sent and an ISUP APP parameter is present. The XML SCI 'aocrg' - 'currency' element is mapped into the ISUP APP encapsulated Charging ASE 'aocrg' - 'currency' parameter.				
ISUP Parameter values	APM APP aocrg currency					
SIP Parameter values	INFO:  < messageType >  < aocrg>  < currency>					
Comments						
Message flows	ISUP IAM ACM ANM  APM(aocrg) APM(crga)	<b>→ ← ← →</b>	MGCF	Mg INVITE 180 Ringing 200 OK INVITE ACK INFO(aocrg) 200 OK INFO		
		A	pply post test routi	ne		

# 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 (PIC	S 6.3.1/1 OR PICS 6.3.1/2) AN	D PICS 6.3.2/2
Test Purpose name	The SUT does not invoke the	COLP service	
Test Purpose	service, an IAM is sent and the Optional forward call indicate connected number is not interest.		uest indicator" field of the requested'. A received
ISUP Parameter values	· ·	rd call indicators = 'not requeste	ed'
	ANM/CON: Connected nur		
SIP Parameter values	200 OK: P-Asserted-Identit	y not present	
Comments			
Message flows	100 Trying  CASE A	MGCF → ← ← ←	ISUP IAM ACM
	200 OK (INVITE)	<b>←</b> ← <b>←</b>	ANM
	(	← ← ← ← → Apply post test routine	CON

TP number	TP_302_002	Reference	7.4.2.1.2			
TSS reference	PSTN-SS/COL/					
Selection criteria	PICS 6.3.4/1 AND (PICS 6	5.3.1/1 OR PICS 6.3.1/2) A	ND PICS 6.3.2/2			
Test Purpose name	The SUT invokes the COL					
Test Purpose	Ensure that on receipt of a	n INVITE request ant the S	SUT invokes the COLP service, an			
	IAM is sent and the Conne	cted Line Identity Request	indicator" field of the Optional forwar			
	call indicators parameter o	f the IAM to 'requested'. A	received connected number			
	presentation allowed is inte	erworked.				
	Connected number					
	Nature of Address Indicato					
	<ul> <li>'national (significant) r</li> </ul>					
	200 OK INVITE P-Ass					
	Add CC (of the country	y where the SUT is located	d) to Connected number address			
		n E.164 number in the URI	Prefix number with '+' in the format '			
	CC NDC SN.'					
		• 'international number'				
	200 OK INVITE P-Ass					
			als to construct an E.164 number in			
		er with "+" in the Format '+	CC NDC SN.			
	Address presentation restr	iction indicator				
	'presentation allowed'      Prive out hander is not a		المنا مغامين مناه معامية			
ISUP Parameter values		present or if present the va ward call indicators = 'requ				
150F Farameter values		number present	esteu			
SIP Parameter values	INVITE: P-Asserted-Ider					
on Tarameter values	200 OK: P-Asserted-Ider					
Comments	200 011. 1 710001100 1001	inty process				
Message flows	Mg	MGCF	ISUP			
go	INVITE	→	→ IAM			
	100 Trying	É	2 17 1111			
	100 Trying	-				
	CASE A					
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	200 OK (INVITE)	È	← ANM			
	ACK (IIVITE)	<b>→</b>	7 (141)			
	7.51	-				
	CASE B					
	200 OK (INVITE)	<b>←</b>	← CON			
	ACK (IIVITE)	<b>→</b>	- 0011			
	7.01	Apply post test ro	utine			
L	1					

TP number	TP_302_003	Reference	7.4.2.1.2		
TSS reference	PSTN-SS/COL/	-	1		
Selection criteria	PICS 6.3.4/1 AND (PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/2				
Test Purpose name	The SUT invokes the COLP service presentation restricted				
Test Purpose	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 restricted 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 restricted'				
ISUP Parameter values		forward call indicators = 'r	equested'		
SIP Parameter values	ANM/CON: Connected number present  INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present Privacy: id				
Comments					
Message flows	Mg INVITE 100 Trying  CASE A 180 Ringing 200 OK (INVITE) ACK  CASE B	MGCF  ←  ←  ←	ISUP  → IAM  ← ACM ← ANM		
	200 OK (INVITE) ACK	← → Apply post tes	← CON t 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 rec	juested	
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 re	equested', no P-Asserted-Identity
	received in a provisional or s	uccessful final response is pr	esent. 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>	NVITE
		← 1	100 Trying
	CASE A		
	ACM ←	← 1	180 Ringing
	ANM ←	← 2	200 OK (INVITE)
		<b>→</b> /	ACK
	CASE B		
	CON ←	<b>←</b> 2	200 OK (INVITE)
			ACK
		Apply post test routine	•

TP number	TP_302_004A	Reference	7.4.2.2		
TSS reference	PSTN-SS/COL/	·	·		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3	3.1/2) AND PICS 6.3.2/2			
Test Purpose name	COL request is set to not r	equested P-Asserted-Identity is r	not mapped		
Test Purpose	Ensure that on receipt of a	n IAM and the Connected Line Id	dentity Request indicator in the		
		cators parameter is set to 'not red			
	received in a provisional or	r successful final response is pre	sent. No connected number is		
	sent in an ANM or CON.				
ISUP Parameter values					
SIP Parameter values	200 OK: P-Asserted-Ider	ntity present			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM =	<b>→</b> IN	VITE		
		<b>←</b> 10	00 Trying		
	CASE A				
	ACM <b>€</b>	<b>-</b> 18	30 Ringing		
	ANM €	<b>-</b> 20	00 OK (INVITE)		
		<b>→</b> A0	CK		
	CASE B				
	CON	<b>-</b> 20	00 OK (INVITE)		
		<b>→</b> A0	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) AND PICS 6.3.2/2					
Test Purpose name		COL request is set to requested P-Asserted-Identity is not received a network provided				
	Connected number is sent					
Test Purpose			ne Identity Request indicator in the			
			quested, no P-Asserted-Identity			
			present. A network provided			
	connected number is sent in					
		indicator is set to = spare				
	<ul> <li>Numbering plan indicat</li> </ul>					
	•	estriction indicator = Addres	s not available			
	<ul> <li>Screening indicator = n</li> </ul>	•				
	Address signals: not pr	esent.				
ISUP Parameter values	ANM/CON:					
	Connected number					
SIP Parameter values						
Comments	10115					
Message flows	ISUP	MGCF	Mg			
	IAM →	<del>)</del>	INVITE			
		<b>←</b>	100 Trying			
	CASE A					
	0.10= .1	_	400 Dinging			
		<del>(</del>	180 Ringing			
	ANM <b>←</b>	<del>(</del>	200 OK (INVITE)			
	→ ACK					
	CASE B					
	CON +	_	200 OK (INIVITE)			
	CON	<b>7</b>	200 OK (INVITE) ACK			
		Apply post tost routi				
		Apply post test routi	ille			

TP number	TP 302 005	Reference	7.4.2.2		
TSS reference	PSTN-SS/COL/	Reference	1.4.2.2		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/2				
		,			
Test Purpose name	COL request is set to reques				
Test Purpose			e Identity Request indicator in the		
			quested', the P-Asserted-Identity		
	received in a provisional resp				
	Coding of Connected numb				
	Number incomplete indicate		(December detice F 464 F 4N		
	Nature of Address Indicator		(Recommendation E.164 [i.1])'		
		· <del>- ·</del>	ne country where MGCF is located		
		SUP node is located in the			
	"national (significa		,		
	else set to	•			
	"international num	ber"			
	Address Presentation Restricted Indicator derived from the Privacy header according				
	the mapping as described in table 6.2.2-1.				
ISUP Parameter values	IAM: Optional Forward Call Indicators				
	Connected Line Identity Request = requested				
	ANM: Connected number				
	Presentation restriction <b>Privacy_VA</b>				
SIP Parameter values	180:				
	P-Asserted-Identity				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routing	ne		

TP number	TP_302_006	Re	eference	7.4.2.2	
TSS reference	PSTN-SS/COL/				
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/2				
Test Purpose name	COL request is set to requested Terminating identity received in a 200 OK response				
Test Purpose	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the				
				quested', the P-Asserted-Identity	
	received in a 200 O				
	Coding of Connecte				
			equal to 'Complete'	(D	
			al to 1SDN/Telephony	(Recommendation E.164 [i.1])	
	Nature of Addres		a agual to the CC of t	he country where MGCF is located	
				same country then set to	
		(significant) n		same country then set to	
	else set to	(Significant) in	umber		
		onal number"			
	Address Presen	tation Restrict	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-I	dentity			
Comments	IOUR HOOF				
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	ACM	<b>←</b>	<del>+</del>	100 Trying 180 Ringing	
	ANM	<del>-</del>	<del>-</del>	200 OK (INVITE)	
	MINIM	•	<b>→</b>	ACK	
	Apply post test rou	utine	7	AON	
	Tabbis bost rest tot	uune			

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"				
ISUP Parameter values	the mapping as described in table 6.2.2-1.				
ISOP Parameter values	IAM: Optional Forward Call Indicators Connected Line Identity Request = requested CON: Connected number Presentation restriction Privacy_VA				
SIP Parameter values	200:	Troothonon Trivady_ 17			
	P-Asserted-Ide	ntity			
Comments		•			
Message flows	ISUP MGCF Mg				
	IAM CON	<b>→</b> ←	<ul> <li>→ INVITE</li> <li>← 100 Trying</li> <li>← 200 OK (INVITE)</li> </ul>		
	Apply post test routi	ne	→ ACK		

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

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

#### 6.2.3 Malicious call identification

TP number	TP_303_001	Reference	7.4.4
TSS reference	PSTN-SS/MCID/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/3	3	
Test Purpose name	MCID request before ACM		
Test Purpose	Ensure that a MCID request be disrupt the call setup procedure		
ISUP Parameter values	unorapt me cam cotap procesur.	se coag or ae o	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
		<b>←</b>	IDR
	CASE A	<b>→</b>	IRS
	CASE B		
		Apply post test routine	

TP number	TP_303_002	Reference		7.4.4
TSS reference	PSTN-SS/MCID/			
Selection criteria	PICS 6.3.1/1 AND PICS	S 6.3.2/3		
Test Purpose name	MCID request after AC	M		
Test Purpose		quest after an ACM received rocedure. The sending of ar		
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>	<b>←</b>	ACM
	CASE A		<b>←</b>	IDR
			<b>→</b>	IRS
	CASE B		<b>←</b>	IDR
	Apply post test routine			

## 6.2.4 Subaddressing (SUB)

TP number	TP_304_001	Reference	7.4.5.2			
TSS reference	PSTN-SS/SUB/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	PICS 6.3.1/1 AND PICS 6.3.2/4				
Test Purpose name	isub parameter in the To heade	er is mapped into Called party	Subaddress			
Test Purpose		Ensure that on receipt of an initial INVITE request, an IAM is sent. The isub parameter				
	present in the To header is ma					
	Access Transport parameter in					
	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	the uric of the isub parameter				
ISUP Parameter values	IAM: Access Transport					
	Called party subadd	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/	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	1				
Test Purpose name	isub parameter in the To heade	er is not mapped				
Test Purpose	present in the To header is not	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/		1	
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/4		
Test Purpose name	isub parameter in the P-Assert	ed-Identity header is mapped	into Calling party Subaddress	
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 mapped into the Calling party Subaddress covered in an 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 mapping.			
	Encoding of the Subaddress:			
	Type of Subaddress='NSAP'			
	Subaddress digits derived from	the uric of the isub paramete	r.	
ISUP Parameter values	IAM: Access Transport			
	Calling party subaddress			
	Type of Subaddress=NSAP			
		ts derived from the uric of the	isub parameter	
SIP Parameter values	<b>INVITE:</b> P-Asserted-Identity:			
	isub	1000		
	uric Subaddress digits			
	isub-encoding: 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 6.3.1/1 AND PI	ICS 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			
	isub-encoding: <any token=""></any>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP_304_005	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/-	4			
Test Purpose name	Connected party Subaddress i P-Asserted-Identity header in t		isub parameter in the		
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				
CID Devementar values	Subaddress digits				
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
Comments	uric digits derived from the Connected party Subaddress digits				
	Ma	MGCF	ISUP		
Message flows	Mg				
	2 7 7 10 10 10 10 10 10 10 10 10 10 10 10 10				
	180 Ringing ← ACM				
	200 OK (INVITE)		ANM		
	ACK →				
		Apply post test routine			

TP number	TP_304_006	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	4			
Test Purpose name	Connected party Subaddress in	n the ANM is not mapped			
Test Purpose	Ensure that on receipt of an AN	IM message containing a Conr	nected party Subaddress		
	parameter in an Access Transp	oort parameter, a 200 OK (INV	TE) is sent and the		
	Connected party subaddress is	not mapped if the Type of sub	paddress is not equal 'NSAP'.		
ISUP Parameter values	ANM: Access Transport	ANM: Access Transport			
	Connected party sub	Connected party subaddress			
	Type of Subaddress other then NSAP				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	180 Ringing ←	<b>←</b>	ACM		
	200 OK (INVITE) ← ANM				
	ACK →				
		Apply post test routine			

TP number	TP_304_007	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND 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 subaddress Type of Subaddress=NSAP Subaddress digits				
SIP Parameter values	INVITE: To:  isub  uric digits derived from the Called party Subaddress digits isub-encoding=nsap-ia5				
Comments		<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/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/4			
Test Purpose name	No mapping of Called Party so	ubaddress in the IAM			
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 not mapped into an isub parameter present in the To header of the INVITE if the Type of number of the subaddress is not equal to 'NSAP'.				
ISUP Parameter values	IAM: Access Transport Called party subaddress Type of Subaddress not NSAP Subaddress digits				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→ ← Apply post test routine	INVITE 100 Trying		

TP number	TP_304_009	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	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 'nsap-ia5'.				
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	R	eference		7.4.5.3	
TSS reference	PSTN-SS/SUB/				•	
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/4				
Test Purpose name	No mapping of Call	No mapping of Calling Party subaddress in the IAM				
Test Purpose	Transport paramete into an isub parame	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 p	IAM: Access Transport Calling party subaddress Type of Subaddress not NSAP Subaddress digits				
SIP Parameter values		<u> </u>				
Comments						
Message flows	ISUP		MGCF			Mg
	IAM → INVITE ← 100 Trying  Apply post test routine					

TP number	TP_304_011	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	2/4			
Test Purpose name	Mapping of isub parameter i	n 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 mapped in the Connected party subaddress present in the Access Transport parameter in the ANM. If the isub-encoding parameter is present, the values 'nsap-ia5', 'nsap-bcd' or 'nsap' are relevant for mapping.				
ISUP Parameter values	ANM: Access Transport				
	Connected party				
	Type of Subac				
	Subaddress digits derived from the uric of the isub parameter				
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric Subaddress digits				
	isub-encoding: Not present				
		nsap-ia5			
	nsap-bcd				
		nsap			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM <b>←</b>	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		→ ACK			
		Apply post test routine			

TP number	TP_304_012	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/	•			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	4			
Test Purpose name	Mapping of isub parameter in t	he 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-encoding: Not nsap-ia5, nsap-bcd, nsap				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ← 200 OK (INVITE)				
	→ 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 PI	ICS 6 3 2/5		
Test Purpose name			edirection number and Redirecting	
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 table 6.2.5-1.</li> </ul>			
ISUP Parameter values	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				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 181 Call Is Being Forwarded	
		Apply post test re	outine	

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 6.3.2/5		
Test Purpose name	Mapping of 181 into early ACM Generic notification is set to 'Call is diverting'		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) History-Info header, an ACM is sent. The Generic notification indicator is set to 'Call is diverting'.		
ISUP Parameter values	ACM: Called party status=no indication Generic Notification call is diverting		
SIP Parameter values		p:any proper URI?Reason p:any proper URI>; index=	=SIP;cause=any >; index=1,
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_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 PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Privacy header into early ACM Notification subscription options		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, 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 Privacy header in the message body as indicated in table 6.2.5-2.		
ISUP Parameter values	ACM: Called party status=no indication Call Diversion Information Notification subscription options=SUBS_options		
SIP Parameter values	181:  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 -	<b>→</b>	INVITE
	ACM •	·	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 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:		
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<sip:any proper="" uri?privacy="&lt;b">Priv-value&gt;; index=1.1</sip:any>		
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 PI	CS 6.3.2/5		
Test Purpose name	Mapping of 181 Priva	cy header into early ACM R	edirection number restriction	
Test Purpose			arded) containing a Privacy header, an	
		led party status is set to 'no		
			ng the Privacy header in the message	
	body as indicated in t	able 6.2.5-4.		
ISUP Parameter values	ACM: Called party s	ACM: Called party status=no indication		
	Redirection nu	umber restriction= PRES_re	str	
SIP Parameter values	181:	181:		
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<si< th=""><th colspan="3"><sip:any proper="" uri="">; index=1.1</sip:any></th></si<>	<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	
	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	2/5		
Test Purpose name	Mapping of 181 escaped Priv	acy header into early ACM	1 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 resti History entry as indicated in t		escaped Privacy header in the last	
ISUP Parameter values	ACM: Called party status=no	ACM: Called party status=no indication		
	Redirection number re	estriction= PRES_restr		
SIP Parameter values	181:	181:		
	History-Info:	History-Info:		
		Reason=SIP;cause= <i>any</i> >; Privacy= <i>Priv-value</i> >; inde:		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ACM ←	<del>-</del>	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/		radio 7. no.e.e.r	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-	uri into CPG Redirection num	ber and Redirecting Reason	
Test Purpose			PG is sent. The Event indicator	
-	is set to 'Progress'. The History			
	Reason header is mapped into	the Redirection number:		
	<ul> <li>If CC is equal the country</li> </ul>	code where the SUT is locate	ed: Nature of address indicator	
	is set to 'national (signific	cant) number', the country c	ode is removed from the digit	
	string			
	<ul> <li>If the country code is not experience.</li> </ul>	equal the country code where	the SUT is located: Nature of	
			ligit string is used unchanged.	
	The Redirecting reason in the	Call Diversion Information pa	rameter is set as indicated in	
	table 6.2.5-5.			
ISUP Parameter values	CPG: Event=ProgressOR			
	Event=Redirecting_Re	eason		
	Redirection number			
		Derived from the last History-Info entry		
	Call Diversion Information Redirecting reason= Redirecting_Reason			
		Redirecting_Reason		
SIP Parameter values	181:	LIDIOD OID	041105	
		per URI?Reason=SIP;cause=	=CAUSE_value>; Index=1,	
Comments	<sip:any pro<="" th=""><th>per URI&gt;; index=1.1</th><th></th></sip:any>	per URI>; index=1.1		
Comments Manager flows	ISUD	MCCE	Ma	
Message flows	ISUP	MGCF	Mg	
	IAM →	====	VITE	
	ACM ←		0 Ringing	
	CrG •	•	1 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	TP 305 006A	Referen	ce	7.4.6.2.2
	11 _000_000/1	110101011		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 AN	D PICS 6.3.2/5		
Test Purpose name	Mapping of 181	hi-targeted-to-uri into CF	PG Generic not	ification is set to 'Call is diverting'
Test Purpose	Ensure that on re	eceipt of 181 (Call Is Be	ing Forwarded)	a CPG is sent. The Event indicator
_	is set to 'Progres	ss'. The Generic notificat	ion indicator is	set to 'Call is diverting'.
ISUP Parameter values	CPG: Event=Pr	ogress		
	Generic N	Notification		
	call is	diverting		
SIP Parameter values	181:			
	History-Info:	<sip:any proper="" th="" uri?f<=""><th>Reason=SIP;ca</th><th>use=any&gt;; index=1,</th></sip:any>	Reason=SIP;ca	use=any>; index=1,
		<sip:any proper="" uri="">;</sip:any>	index=1.1	
Comments				
Message flows	ISUP	MG	CF	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 routi	ne

TP number	TP_305_007	Reference	7.4.6.2.2 Table 7.4.6.2.2.2
			Table 7.4.6.2.2.2 Table 7.4.6.2.2.7
TSS reference	PSTN-SS/CDIV/		Table 7.4.0.2.2.7
Selection criteria	PICS 6.3.5/1 AND PICS 6.3.1/	1 AND PICS 6 3 2/5	
Test Purpose name	Mapping of 181 hi-targeted-to-		into CPG Event indicator
Test Purpose			CPG is sent. The Event indicator
restruipose	is set to 'Redirecting_Reason		
	following the last History-Info e		
	Redirection number:	Titry Containing a Reason ne	ader is mapped into the
		anda whara the SLIT is locat	ad: Natura of address indicator
			ed: Nature of address indicator ode is removed from the digit
	string.	canty number, the country of	ode is removed from the digit
	3	and the country code where	the CLIT is leasted. Noture of
	<ul> <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_Re		digit stillig is used unchanged.
130F Farailleter values		Redirection number	
		t History Info ontry	
SIP Parameter values	Derived from the las	t History-Inio entry	
SIP Parameter values	_	or LIDI2Doccon_SID:couloc	CAUSE values : index=1
		per URI?Reason=SIP;cause	=CAUSE_value>, index=1,
Comments	<sip.ariy prop<="" th=""><th>per URI&gt;; index=1.1</th><th></th></sip.ariy>	per URI>; index=1.1	
••••••	ISUP	MGCF	Ma
Message flows			Mg
	IAM →		VITE
	ACM ←		30 Ringing
	CPG ←		31 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	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 PI	ICS 6.3.2/5		
Test Purpose name	Mapping of 181 Priva	acy header into CPG Notificatio	n subscription options	
Test Purpose	CPG is sent. The Eventh The Notification subs	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		
ISUP Parameter values	CPG: Event=Progre Call Diversion	according the Privacy header in the message body as indicated in table 6.2.5-7.  CPG: Event=Progress Call Diversion Information Notification subscription options=SUBS_options		
SIP Parameter values	181: <i>Privacy: Priv-val</i> History-Info: <si< th=""><th colspan="2"></th></si<>			
Comments		, ,		
Message flows	ISUP	ISUP MGCF Mg		
	IAM ACM CPG	→ ← ← Apply post test re	→ INVITE ← 180 Ringing ← 181 Call Is Being Forwarded	

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/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notifi	cation 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		
	The Notification subscription o		n Information parameter is set ventry as indicated in table 6.2.5-8.	
ISUP Parameter values	CPG: Event=Progress		•	
	Call Diversion Informati Notification subscrip	on otion options= <b>SUBS_optic</b>	ons	
SIP Parameter values	181:			
	History-Info:			
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?<i="">Privacy=<b>Priv-value&gt;</b>; index=1.1</sip:any></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 routing	ne	

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			
Transo.	11 _000_010	TKOTOTOTIOO	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 Privacy he	Mapping of 181 Privacy header into CPG Redirection number restriction				
Test Purpose	Ensure that on receipt of	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header in the				
	message body, a CPG is	sent. The Event indicato	r is set to 'Progress'.			
	The Redirection number r	estriction is set according	g the Privacy header in the message			
	body as indicated in table	6.2.5-9.				
ISUP Parameter values	CPG: Event=Progress	CPG: Event=Progress				
	Redirection number	r restriction= PRES_res	tr			
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< th=""><th>proper URI&gt;; index=1.1</th><th></th></sip:any<>	proper URI>; index=1.1				
Comments						
Message flows	ISUP MGCF Mg					
	IAM -	<b>→</b>	→ INVITE			
	ACM ← 180 Ringing					
	CPG ←	-	← 181 Call Is Being Forwarded			
		Apply post test routine				

TP number	TP 305 011	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	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 181 escaped Pr	Mapping of 181 escaped Privacy header into CPG Redirection number restriction				
Test Purpose	Ensure that on receipt of 18	Ensure that on receipt of 181 (Call Is Being Forwarded), a CPG is sent. The Event indicator				
	is set to 'Progress'.					
	The Redirection number res	striction is set according the	escaped Privacy header in the last			
	History entry as indicated in	table 6.2.5-9.				
ISUP Parameter values	CPG: Event=Progress					
	Redirection number	restriction= PRES_restr				
SIP Parameter values	181:					
	History-Info:					
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>					
	<sip:any proper="" th="" uri<=""><th>?<i>Privacy=<b>Priv-value&gt;</b>;</i> index</th><th>x=1.1</th></sip:any>	? <i>Privacy=<b>Priv-value&gt;</b>;</i> index	x=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				

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/		Table 1. Heller			
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 180 hi-	Mapping of 180 hi-targeted-to-uri into ACM Redirection number and Redirecting Reason				
Test Purpose	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:  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 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.					
	table 6.2.5-10.		mation parameter is set as indicated in			
ISUP Parameter values	ACM: Called party status=subscriber free Redirection number Derived from the last History-Info entry Call Diversion Information Redirecting reason= Redirecting_Reason					
SIP Parameter values	180: History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1,</sip:any>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
	ACM ← 180 Ringing					
		Apply post test	routine			

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

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

TP number	TP_305_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/	<u>.</u>		•		
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 180 h	i-targeted-to-uri into ACN	I Generic not	tification 'Call is diverted'		
Test Purpose				. The called party status is set to		
				st History-Info entry containing a		
	Reason header is	mapped into the Redire	ction number	: The Generic notification indicator		
	is set to 'Call is di	verted'.				
ISUP Parameter values	ACM: Called par	ty status=subscriber free				
	Generic N	Generic Notification				
	call is o	call is diverting				
SIP Parameter values	180:					
		<pre><sip:any <sip:any="" proper="" uri="" uri?re="">; ir</sip:any></pre>		use=any>; index=1,		
Comments		Sip.ariy proper Ortiz, ii	IUCX-1.1			
	NOUS MOOF					
Message flows	ISUP	MGC	=	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	Apply post test routine					

TP number	TP_305_013	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 Privacy he	Mapping of 180 Privacy header into ACM Notification subscription options				
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header in the message body,					
	an ACM is sent. The called	d party status is set to 'subsc	riber free'.			
			on Information parameter is set			
		der in the message body as	indicated in table 6.2.5-11.			
ISUP Parameter values	ACM: Called party status=subscriber free					
	Call Diversion Infor	mation				
	Notification sub	scription options=SUBS_opt	ions			
SIP Parameter values	180:					
	Privacy: <b>Priv-value</b>					
		proper URI?Reason=SIP;ca	nuse=any value>; index=1,			
	<sip:any< th=""><th>proper URI; index=1.1</th><th></th></sip:any<>	proper URI; index=1.1				
Comments						
Message flows	ISUP MGCF Mg					
	IAM → 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	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 180 escaped Priva	Mapping of 180 escaped Privacy header into ACM 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, 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 → 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/	•	·		
Selection criteria	PICS 6.3.1/1 AND P	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Priva	Mapping of 180 Privacy header into ACM Redirection number restriction			
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header in the message body, an ACM is sent. The called party status is set to 'subscriber free'.  The Redirection number restriction is set according the Privacy header in the message				
	body as indicated in		ang me i maay neader in me meedage		
ISUP Parameter values	ACM: Called party s	status=subscriber free number restriction= <b>PRES</b>	restr		
SIP Parameter values	181:  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	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	★ 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/	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/5				
Test Purpose name	Mapping of 180 escaped Priv	acy header into ACM Red	irection number restriction			
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header in the last hi-targeted-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 status=s					
SIP Parameter values	181: History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?<i="">Privacy=Priv-value&gt;; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP MGCF Mg					
	IAM → INVITE					
	ACM ←	<b>←</b>	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 AN	D PICS 6.3.2/5	
Test Purpose name	Mapping of 180 l	ni-targeted-to-uri into CPG Redi	rection number and Redirecting Reason
Test Purpose	<ul> <li>Ensure that on receipt of 180 (Ringing) a CPG is sent. The Event indicator is set to 'ALERTING'. The History-Info entry concerning the diverted-to number is mapped into the Redirection number:</li> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string.</li> <li>If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged. The Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.2.5-14.</li> </ul>		
ISUP Parameter values	Derive Call Diver	ERTING on number ed from the last History-Info entresion Information ecting reason= Redirecting_Re	
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 IAM ACM CPG	MGCF → ← Apply post tes	Mg → INVITE ← 181 Call Is Being Forwarded ← 180 Ringing st routine

Table 6.2.5-14: 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_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 notifica	tion 'Call is diverting'
Test Purpose	Ensure that on receipt of 180		
	the diverted-to number is map	•	ber: The Generic notification
	indicator is set to 'Call is diver	ting'.	
ISUP Parameter values	<b>CPG:</b> Generic Notification	า	
	call is diverting		
SIP Parameter values	181:		
	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> IN	VITE
	ACM ←	<b>←</b> 18	31 Call Is Being Forwarded
	CPG ←	<b>←</b> 18	80 Ringing
		Apply post test routine	

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/	5	
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into CPG Event indicator 'A	ALERTING'
Test Purpose	Ensure that on receipt of 180 (		
	the diverted-to number is mapp	ped into the Redirection numb	er: The Event information is
	set to 'Alerting'.		
ISUP Parameter values	CPG: Event=ALERTING		
SIP Parameter values	181:		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; 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> IN\	/ITE
	ACM ←	<b>←</b> 18°	Call Is Being Forwarded
	CPG ←	← 180	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 PICS 6.3.2/	5		
Test Purpose name	Mapping of 180 Privacy heade	r into CPG Notification sub	oscription options	
Test Purpose		Ensure that on receipt of 180 (Ringing) containing a Privacy header, a CPG is sent.  The Notification subscription options in the Call Diversion Information parameter is set		
	according the Privacy header i			
ISUP Parameter values	CPG: Call Diversion Information			
	Notification subscrip	tion options=SUBS_optic	ons	
SIP Parameter values	180:			
	Privacy: <b>Priv-value</b>			
	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	(Sip.arry proj	ber Orriz, index=1.1		
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 6.2.5-15: 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/	·	•
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: <pre></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			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 heade	r into CPG Redirection nu	mber restriction
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a CPG is sent.		
	The Redirection number restrict	ction is set according the F	Privacy header in the message
	body as indicated in table 6.2.5-17.		
ISUP Parameter values	CPG: Redirection number restriction= PRES_restr		
SIP Parameter values	180:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP MGCF Mg		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 table 6.2.5-17.		
ISUP Parameter values	CPG: Redirection number res	triction= PRES_restr	
SIP Parameter values	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 ←	<b>←</b> ·	181 Call Is Being Forwarded
	CPG ←	<b>←</b> ·	180 Ringing
	Apply post test routine		

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

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

TP number	TP_305_022	Reference	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 ANI	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 200 h	ni-targeted-to-uri into ANM Red	irection 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 +'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 the '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	ANM: Redirection	on number ed from the last History-Info ent	rv	
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	MGCF	Mg	
	IAM ACM ANM	→ ← ← Apply post te	→ INVITE ← 180 Ringing ← 200 OK INVITE → ACK st routine	

TP number	TP_305_023	Reference	7.4.6.2.2		
			Table 7.4.6.2.2.3		
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 200 Privacy heade	er into ANM Redirection nu	mber restriction		
Test Purpose			Privacy header, an ANM is sent.		
	The Redirection number restri	ction is set according the F	Privacy header in the message		
	body as indicated in table 6.2.	5-18.			
ISUP Parameter values	ANM: Redirection number res	striction= 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>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ← 200 OK INVITE				
	→ ACK				
		Apply post test routin	е		

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				
Test Purpose	Ensure that on receipt of 200 C				
			escaped Privacy header in the last		
	History entry as indicated in tal	ole 6.2.5-18.			
ISUP Parameter values	ANM: Redirection number res	triction= PRES_restr			
SIP Parameter values	200:				
	History-Info:				
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any></pre>				
	<pre><sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></pre>				
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 6.3.2	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 200 hi-targeted-to			
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 la	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 ←	MGCF	<b>Mg</b> INVITE 200 OK INVITE ACK ne	

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 heade	r into CON Redirection nui	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			
ISUP Parameter values	CON: Redirection number res	triction= 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>			
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	cy header into CON Redire	ection number restriction
Test Purpose	Ensure that on receipt of 200 C		
	The Redirection number restric	ction is set according the es	scaped Privacy header in the last
	History entry as indicated in tal	ble 6.2.5-18.	
ISUP Parameter values	ANM: Redirection number res	triction= 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>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	NVITE
	ANM ←	← :	200 OK INVITE
		<b>→</b> /	ACK
	Apply post test routine		

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

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

TP number	TP_305_028	Reference	7.4.6.2.3		
			Table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PI	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of Redirectir	Mapping of Redirecting number Address Signals			
Test Purpose	Redirection Information present. The value of	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		Address: <b>NoA_value</b> gnals <any appropriate="" value=""> iormation</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 IAM	MGCF  → Apply post test ro	Mg → INVITE putine		

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

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

TP number	TP_305_029	Reference	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 Redirecting number	r Address presentation restrict	ed 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	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,     <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→ INV	ITE		
	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/	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 Redirection Inform	nation Redirecting indicator			
Test Purpose		AM containing a Redirecting nu			
		VITE request is sent and a Hist			
		in the second last hi-targeted-to			
		indicator of the Redirection Inf	ormation as indicated in		
	table 6.2.5-21.				
ISUP Parameter values	IAM: Redirection Information	n			
	Redirecting indicat	Redirecting indicator=RDIND_value			
SIP Parameter values	INVITE:				
	History-Info:				
		Reason=SIP;cause=404>; inde			
		Privacy= <b>PRIV_value</b> &Reason=	:SIP;cause=any>; index=1.1,		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → INVITE				
	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 AND	D PICS 6.3.2/5	
Test Purpose name	Mapping of Redir	ection Information Redirection	counter
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number and a Redirection Information parameter, an INVITE request is sent and the hi-targeted-to-uri and the index parameter of the Redirection counter as indicated in table 6.2.5-22.		
ISUP Parameter values	IAM: Redirection Information  Redirection counter=RDCONT value		
SIP Parameter values	INVITE: History-Info:	ENTRY_values	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
		Apply post te	est 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: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="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:>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:></pre>
		<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="404">; index=1.1,</sip:>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:></pre>
		<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 AND PICS 6.3.2/5			
Test Purpose name	Mapping of Redi	rection Informa	tion Original redirectio	n reason
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 Original redirection reason indicator value <b>'unknown'</b> of the Redirection Information is mapped into the cause parameter value <b>'404'</b> of the first hi-targeted-to-uri of the History-Info header in the sent INVITE.			
ISUP Parameter values	IAM: Redirection Information Original redirection reason= unknown			
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 → INVITE  Apply post test routine			

Table 6.2.5-23: Void

TP number	TP_305_033	Referen	ce	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		ection Information Red		
Test Purpose	Ensure that on re	ceipt of an IAM contain	ing a Redirection nu	ımber an Original called
	number and a Re	edirection Information p	arameter, an INVITE	request is sent. The
	Redirecting reason	on indicator REAS_value	e of the Redirection	Information is mapped into
	the cause parame	eter Cause_value of th	e second last hi-targ	geted-to uri of the History-Info
	header in the ser	it INVITE as indicated i	n table 6.2.5-24.	
ISUP Parameter values	IAM: Redirection Information			
	Redirecting reason =REAS_value			
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1.</sip:any>			
		<sip:any proper="" th="" uri?f<=""><th>Reason=SIP;cause=</th><th>Cause_value&gt;; index=1.1,</th></sip:any>	Reason=SIP;cause=	Cause_value>; index=1.1,
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	ISUP	MG	CF	Mg
	IAM → INVITE			/ITE
		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/	PSTN-SS/CDIV/		
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 Called par	ty 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 6.2.5-25.			
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 → INVITE			
	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	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/	75	
Test Purpose name	Mapping of Original called nun	nber Address 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	INVITE:  History-Info: <sip: called="" number?reason="SIP;cause=404" original="">; 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:>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ INV	ITE
	Apply post test routine		

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

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

TP number	TP_305_036	Reference	7.4.6.2.3	
			Table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name		Mapping of Original called number Address presentation 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 → INVITE			
		Apply post test ro	outine	

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 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 Nat	ure of address indicator of the	ne Redirecting number is	
	mapped from the latest History	-Info header field entry in the	format +'CC+NDC+SN'	
	containing a Reason header as	containing a Reason header as indicated in table 6.2.5-28.		
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>			
	<pre><sip:second entry="" last="" uri?reason="SIP;cause=any">; index=1.1,</sip:second></pre>			
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	Mg MGCF ISUP			
_	INVITE → → IAM			
	100 Trying ←			
	Apply post test routine			
	Lit A Little and A			

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	Refere	nce	7.4.6.3.2
				Table 7.4.6.3.2.2
TSS reference	PSTN-SS/CDIV/			•
Selection criteria	PICS 6.3.1/1 ANI	D PICS 6.3.2/5		
Test Purpose name		Latest History-Info header field entry containing a Reason header 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 latest History-Info header field entry in the format <b>+'CC+NDC+SN'</b> containing a Reason header as indicated in table 6.2.5-29.			
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	INVITE 100 Trying	<b>→</b> ← Apply	MGCF → y post test routine	ISUP IAM

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   <b>Reference</b>   7.4.6.3.2		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 nur			
Test Purpose	Ensure that on receipt of an IN			
	sent and a Redirecting number			
	parameter is present. The Add			
	number is mapped from the es			
	entry containing a Reason hea	der as indicated in table 6.2.5-	30.	
ISUP Parameter values	IAM: Redirecting number			
	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:			
	History-Info:			
	<sip:any appropriate="" uri="">; index=1,</sip:any>			
	<sip:any proper="" th="" uri?pr<=""><th>ivacy=PRIV_value&amp;Reason=\$</th><th>SIP;cause=any&gt;; index=1.1,</th></sip:any>	ivacy=PRIV_value&Reason=\$	SIP;cause=any>; index=1.1,	
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → 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/	•	<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	Privacy header is map	ped into Redirecting number	Address presentation restricted	
	indicator	indicator		
Test Purpose			ning a History-Info header, an IAM is	
			umber and a Redirection information	
			restricted indicator of the Redirecting	
	number is mapped fro	m the Privacy header of the	eceived INVITE request as indicated in	
	table 6.2.5-30.			
ISUP Parameter values	IAM: Redirecting number			
	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:			
	Privacy: PRIV_val	Privacy: PRIV_value		
	History-Info: <sip< th=""><th>:any appropriate URI&gt;; index</th><th>=1,</th></sip<>	:any appropriate URI>; index	=1,	
		:any proper URI?Reason=SI		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	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		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	
Test Purpose name	Escaped Privacy header is ma		
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting number	an Original called number and	d a Redirection information
	parameter is present. The Red		
	from the escaped Privacy head		
	Reason header in the received		
ISUP Parameter values	IAM: Redirection information		
	Redirecting indicator=RDIND_value		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any appropriate="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,</sip:any></pre>		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>		
Comments	Colp.uity proper order, index=1.1.1		
Message flows	Mg MGCF ISUP		
moodage news	INVITE → IAM		
	1		
	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/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	75	
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 6.2.5-31.		
ISUP Parameter values	IAM: Redirection information Redirecting indicator=RDIND value		
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>		
Comments			
Message flows	Mg MGCF ISUP		
	INVITE -	<b>→</b>	IAM
	100 Trying ←		
	Apply post test routine		

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

	PRIV_value	RDIND_value
VA_01		Call diverted, all redirection info presentation restricted
\/A 02		
VA_02		Call diverted, all redirection info presentation restricted
VA_03		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	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	cause value is mapped into Re	edirection information Redirect	ing 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         MGCF         ISUP           INVITE         → IAM           100 Trying         ←			
		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	Refer	ence	7.4.6.3.2
TCC mafamanaa	DOTAL CO/ODIV/	,		Table 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AN	ID PICS 6.3.2/5		
Test Purpose name	Hi-index is mapp	ed into Redirection i	nformation Re	direction 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:			
	History-Info:	ENTRY_values		
Comments				
Message flows	Mg INVITE 100 Trying	<b>→</b> ←	MGCF	SUP → IAM

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

	ENTRY_values	RDCONT_value
VA_01	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	1
	<sip: called="" number="" party="" represents="" the="">; index=1.1</sip:>	
VA_02	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	2
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1</sip:>	
VA_03	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	3
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1</sip:>	
VA_04	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	4
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1</sip:>	
VA_05	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	5
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:>	
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1.1.1,</sip:></pre>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1.1</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 PI	CS 6.3.2/5		
Test Purpose name	First History-Info head	First History-Info header field entry is mapped into Original called number Nature of		
	address indicator			
Test Purpose			ning a History-Info header, an IAM is	
			umber and a Redirection information	
			cator of the Original called number is	
			in the format +'CC+NDC+SN' as	
	indicated in table 6.2.			
ISUP Parameter values	IAM: Original called			
	Numbering	Plan Indicator= <i>ISDN (Teleph</i>	• .	
			dation E.164 [i.1])	
		address indicator= <b>NoA_value</b>		
SIP Parameter values	INVITE:			
		o:First entry URI>; index=1,		
		e:any proper URI?Reason=SIF		
0	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments		11005	IOUD	
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
	Apply post test routine			

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

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

TP number	TP_305_046	Reference	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 P	ICS 6.3.2/5			
Test Purpose name	First History-Info hea	ader field entry is mapped into Or	riginal called 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 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	Numberin	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	Topically proper of the state o				
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test ro	ISUP → IAM  utine		

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/	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	First History-Info header field e	entry escaped Privacy header i	s mapped into Original called	
	number Address presentation	restricted indicator		
Test Purpose	Ensure that on receipt of an IN			
	sent and a Redirecting number			
	parameter is present. The Add			
	called number is mapped from		t the first History-Into header	
ICUD Denometer volues	field entry as indicated in table	0.2.5-30.		
ISUP Parameter values	IAM: Original called			
	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:			
	History-Info: <sip:any appropriate="" uri?privacy="&lt;b">PRIV_value&gt;; index=1,</sip:any>			
	<sip:any pro<="" th=""><th>per URI?Reason=SIP;cause=a</th><th>ny&gt;; index=1.1,</th></sip:any>	per URI?Reason=SIP;cause=a	ny>; index=1.1,	
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

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.	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Privacy header is mapped in indicator	to Original called number Addre	ss presentation restricted		
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	=	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	
			Table 7.4.6.3.3.1,	
			Table 7.4.6.3.3.3	
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 ACM Redirection	number into 181 (Being forward	ded) History-Info header	
Test Purpose	present as an indication a call	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 Redirection number is mapped into the hi-targeted-to-uri in a History-Info header containing		
ISUP Parameter values	ACM: Backward call indicato			
	Called party statue Generic notification=ca Call diversion informat Redirection number Nature of address i Address signal <b>Dig</b>	='no indication' all is diverting ion ndicator= <b>NOA_value</b>		
SIP Parameter values		vn@unknown.invalid?Reason= _ <b>HIST_URI</b> >; index=1.1	SIP;cause=any>; index=1,	
Comments				
Message flows	Mg INVITE = 181 Being forwarded		ISUP IAM ACM	

Table 6.2.5-37: 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_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/	PSTN-SS/CDIV/			
Selection criteria	NOT PICS 6.3.5/2 AND PICS 6				
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-Ir	fo header in the sent 181 as ir	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:	: CID	Once and a similar A		
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>				
Commonto	<sip:derived from="" number="" redirection="">; index=1.1</sip:derived>				
Comments		МООГ	IOUD		
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	181 Being forwarded ←	•	ACM		
	Apply post test routine				

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

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

TP number	TP_305_051	Reference	7.4.6.3.3	
			Table 7.4.6.3.3.1,	
			Table 7.4.6.3.3.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of ACM Redirecting re	eason into 181 (Being forwarde	ed) History-Info header	
	Reason header			
Test Purpose	Ensure that on receipt of an AC	M a Redirection number and	the Call diversion parameter is	
	present as an indication a call of	diversion occurred, a 181 (Bei	ng forwarded) is sent. The Call	
	diversion information Redirecting	ng reason is mapped into the <b>F</b>	Reason header of the hi-	
	targeted-to-uri in a History-Info	header in the sent 181 as indi	cated in table 6.2.5-39.	
ISUP Parameter values	<b>ACM:</b> Backward call indicator			
	Called party status=	no indication		
	Generic notification=cal	is diverting		
	Redirection number	•		
	Call diversion information	n		
	Redirecting reason =	=REAS_value		
SIP Parameter values	181:			
	History-Info:			
		n.invalid?Reason=SIP;cause=	=Cause value>; index=1,	
		ection number>; index=1.1	_ '	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	<b>→</b>	IAM	
	181 Being forwarded ←	<b>←</b>	ACM	
	Apply post test routine			

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

CAUSE	Redirecting_Reason REAS_value	Reason header, 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

	I=5			I	
TP number	TP_305_052	Refere	nce	7.4.6.3.3	
				Table 7.4.6.3.3.1,	
				Table 7.4.6.3.3.3	
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/5			
Test Purpose name	Mapping of ACM Notif	ication subscript	ion options no 18°	1 (Being forwarded) is sent	
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, if the Call diversion information Notification subscription options is set to <b>presentation not allowed</b> no 181 (Being forwarded) is sent.			is	
ISUP Parameter values	Redirection nul Call diversion i	nformation	rting ions=presentation	n not allowed	
SIP Parameter values					
Comments					
Message flows	Mg	•	MGCF	ISUP	
	INVITE	<b>→</b>		→ IAM	
				← ACM	
		Appl	y post test routir	ne	

TP number	TP_305_053	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 6.3.1/1 AND PICS 6.3.2/				
Test Purpose name	Mapping of ACM Notification s	ubscription options into 181 (E	Being forwarded) escaped		
	Privacy header				
Test Purpose			the Call diversion parameter is		
			ng forwarded) is sent. The Call		
	diversion information Notificati				
	header of the last hi-targeted-t	o-uri in a History-Info header i	n the sent 181 as indicated in		
	table 6.2.5-40.				
ISUP Parameter values	ACM:				
	Generic notification=ca	ll is diverting			
	Redirection number				
	Call diversion information				
	<u> </u>	otion options= <b>NSO_value</b>			
SIP Parameter values	181:				
	History-Info:				
		nvalid?Reason=SIP;cause=an	y>; index=1,		
	<sip:any proper="" th="" uri?priva<=""><th>cy=<b>PRIV_value</b> &gt;;index=1.1</th><th></th></sip:any>	cy= <b>PRIV_value</b> >;index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	181 Being forwarded ←	·	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/	•	•		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/5			
Test Purpose name	Mapping of CPG Redirection i	number into 181 (Being forward	ded) History-Info header		
Test Purpose		G the Event indicator is set to			
		parameter is present as an inc			
	occurred, a 181 (Being forwar	ded) is sent. The Redirection n	umber is mapped into the last		
	hi-targeted-to-uri in a History-	nfo header in the sent 181 as i	ndicated in table 6.2.5-37.		
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=ca	III is diverting			
	Call diversion informat	on			
	Redirection number				
	Nature of address indicator=NOA_value				
	Address signal <b>Digits</b>				
SIP Parameter values	181:				
	History-Info: <sip:unknown@unknown.invalid?reason=sip;cause=any>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=any>				
	<sip:last_< th=""><th>HIST_URI; &gt;; index=1.1</th><th></th></sip:last_<>	HIST_URI; >; index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	IAM		
	180 Ringing ← ← ACM				
	181 Being forwarded ← ← 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	NOT PICS 6.3.5/2 AND PICS	6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of CPG Redirecting r parameter	eason into 181 (Being forwarde	ed) History-Info header cause		
Test Purpose	Ensure that on receipt of a CP	G the Event indicator is set to	'Progress' a Redirection		
-	number and the Call diversion	parameter is present as an inc	dication a call diversion		
	occurred, a 181 (Being forward	ded) is sent. The Call diversion	information Redirecting		
	reason is mapped into the cau	ise parameter of the last hi-tar	geted-to-uri in a History-Info		
	header in the sent 181 as indic	cated in table 6.2.5-38.			
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=ca	II is diverting			
	Redirection number				
	Call diversion informati				
	Redirecting reason	=REAS_value			
SIP Parameter values	181:				
	History-Info:				
		vn.invalid?Reason=SIP;cause=	=Cause_value>; index=1,		
	<sip:derived from="" redi<="" th=""><th>rection number&gt;; index=1.1</th><th></th></sip:derived>	rection number>; index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → 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 r 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 6.2.5-39.			
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value			
SIP Parameter values	181: History-Info: <a href="mailto:sip:unknown@unknown.invalid?Reason=SIP;cause=Cause_value">toda:invalid?Reason=SIP;cause=Cause_value</a> ; index=1, <a href="mailto:sip:unknown@unknown.invalid?Reason=SIP;cause=Cause_value">toda:invalid?Reason=SIP;cause=Cause_value</a> ; index=1, <a href="mailto:sip:unknown@unknown.invalid?Reason=SIP;cause=Cause_value">toda:invalid?Reason=SIP;cause=Cause_value</a> ; index=1,			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -		IAM	
	180 Ringing    ★		ACM	
	181 Being forwarded ← 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/	•	<u>.</u>			
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/5				
Test Purpose name	Mapping of CPG Notif	ication subscription options i	no 181 (Being forwarded) is sent			
Test Purpose	number and the Call d	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				
		wed no 181 (Being forwarde				
ISUP Parameter values	CPG: Event=Progres	S	•			
	Generic notifica	ation=call is diverting				
	Redirection nur	mber				
	Call diversion in	nformation				
	Notification	Notification subscription options=presentation not allowed				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	180 Ringing	<b>←</b>	← ACM			
			← 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/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5		
Test Purpose name	Mapping of CPG Notification su Privacy header	ubscription options into 181 (B	eing 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:unknown@unknown.invalid?reason=sip;cause=any>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=any>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	180 Ringing ← ← ACM			
	181 Being forwarded ← ← CPG			
	Apply post test routine			

TP number	TP_305_059	Reference	7.4.6.3.3		
	1555_555		Table 7.4.6.3.3.1,		
			Table 7.4.6.3.3.4		
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 a CPG Alerting Red	direction number into 180 (Rin	ging) History-Info header		
	Redirecting reason is mapped into the cause parameter				
Test Purpose	Ensure that on receipt of a CPC				
	is present, a 180 (Ringing) is se				
	mapped into the last hi-targeted	d-to-uri in a History-Info heade	er in the sent 180 as indicated		
	in table 6.2.5-37 and the cause	parameter value in the last er	ntry is mapped from a		
	previous received Redirecting r	eason as indicated in table 6.2	2.5-38.		
ISUP Parameter values	<b>ACM:</b> Backward call indicator				
	Called party status=				
	Optional backward call indicator				
	In-band info or appro	opriate pattern is now available	Э		
	CPG: Event indicator=Alerting				
	Redirection number				
	Nature of address indicator=NOA_value				
	Address signal <b>Digits</b>				
	Call diversion information				
	Redirecting reason =	-REAS_value			
SIP Parameter values	180:				
	History-Info:				
		n.invalid?Reason=SIP;cause=	=Cause_value >; index=1,		
	<sip: last_hist_ur=""></sip:>	; index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	183 Session Progress ←	<b>←</b>	ACM		
	180 Ringing ←	<b>←</b>	CPG		
		Apply post test routine			

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/	1	
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 in the first entry is mapped from a previous received ACM		
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 of the Reason header is mapped from a		
	previous received Redirecting reason in ACM as indicated in table 6.2.5-39.		
ISUP Parameter values	ACM: Backward call indicator		
	Called party status=no indication		
	Generic notification=call is diverting		
	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:		
	History-Info:		
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1, <sip: cause="any" last_hist_ur;="">; index=1.1</sip:></sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>		
0	<sip: las1_his1_ur;<="" th=""><th>cause=any&gt;; index=1.1</th><th></th></sip:>	cause=any>; index=1.1	
Comments	B4	MOOF	ICUID
Message flows	Mg	MGCF	ISUP
	INVITE -	<del>=</del>	IAM
	181 Being forwarded		ACM
	180 Ringing ←	-	CPG
	Apply post test routine		

TP number	TP_305_061	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 CPG Alerting Redirecti	on Number Restriction into 18	0 (Ringing) Privacy header
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection Number Restriction parameter is present, a 180 (Ringing) is sent. The Redirection Number Restriction parameter value is mapped into the Privacy header in the sent 180 as indicated in table 6.2.5-41.		
ISUP Parameter	ACM: Backward call indicator		
values	Called party status=no indication		
	Generic notification=call is diverting		
	Call diversion information		
	Redirection number		
	CPG: Event indicator=Alerting		
	Redirection Number Restriction=PRES_restr		
SIP Parameter values	180:		
	History-Info: <sip:unknown@unknown.invalid?reason=sip;cause=any>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=any>		
	<sip:any proper="" uri?privacy="&lt;b">PRIV_value&gt;; index=1.1</sip:any>		
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 6.3.5/2 AND PICS 6.3.	1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of ANM Redirection number into 200 OK History-Info header Redirecting reason			
	is mapped into the cause parameter			
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-Info header in the sent 200 OK as indicated in table 6.2.5-37		
	and the cause parameter va	alue is mapped from the rece	eived Redirecting reason as	
	indicated in table 6.2.5-38.			
ISUP Parameter values	ACM: Backward call indicate			
	Called party status	s= subscriber free		
	ANM:			
	Generic notification=call is diverting Call diversion information			
	Redirecting reaso	n = <b>REAS_value</b>		
	Redirection number			
		indicator=NOA_value		
	Address signal <b>Di</b>	gits		
SIP Parameter values	200 OK:			
	,	History-Info:		
		<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>		
	<sip:last_hist_uri;cause=cause_value>; index=1.1</sip:last_hist_uri;cause=cause_value>			
	or			
	History-Info:			
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>			
Comments	<sip:last_hist_ur< th=""><th>1 &gt;; Index=1.1</th><th></th></sip:last_hist_ur<>	1 >; Index=1.1		
Comments		МООГ	IOUD	
Message flows	Mg	MGCF	ISUP	
	INVITE	<del>)</del>	→ IAM	
	181 Being forwarded	<del>(</del>	← ACM	
	1	<del>(</del>	← CPG	
		<del>-</del>	<b>←</b> ANM	
	ACK	<b>→</b>		
	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 6.3.5/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of ANM Redirection number into 200 OK History-Info header a previous received Redirecting reason is mapped into the cause parameter in the first entry			
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-Info header in the sent 200 as indicated in table 6.2.5-37 and			
	the cause parameter value is	the <b>cause parameter</b> value is mapped from a previous received Redirecting reason as		
	indicated in table 6.2.5-39.		-	
ISUP Parameter values	CPG: Event information			
	ALERTING			
	Generic notification=ca	Generic notification=call is diverting		
	Call diversion informati	Call diversion information		
	Redirecting reason	=REAS_value		
		Redirection number		
		ANM:		
	Redirection number			
		Nature of address indicator=NOA_value		
		Address signal <b>Digits</b>		
SIP Parameter values		200 OK:		
	History-Info:			
		vn.invalid?Reason=SIP;cause:	=Cause_value>; index=1,	
	<sip: last_hist="">; ind</sip:>	dex=1.1		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -		IAM	
	181 Being forwarded 🔸		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 7.4.6.3.3.6	
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 I	Mapping of ANM Redirection Number Restriction into 200 OK Privacy header		
Test Purpose	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			
		value is mapped into the Priva	acy header in the sent 200 as	
	indicated in table 6.2.5-41.			
ISUP Parameter values	ACM: Generic notification=call is diverting			
	Generic notification	Generic notification		
	Call diversion informati	on		
	Redirection number			
	ANM:			
		Redirection Number Restriction=PRES_restr		
SIP Parameter values		200:		
	History-Info: <sip:unknown@unknown.invalid?reason=sip;cause=any>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=any>			
_	<sip:any proper="" uri?privacy="&lt;b">PRIV_value;cause=any&gt;; index=1.1</sip:any>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<b>→</b>	IAM	
	181 Being forwarded	·	ACM	
	180 Ringing	<b>-</b> ←	CPG	
	200 OK INVITE	<del>-</del>	ANM	
	ACK -	•		
	Apply post test routine			

TP number	TP_305_065	Reference	7.4.6.1		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	NOT PICS 6.3.2/5	NOT PICS 6.3.2/5			
Test Purpose name	No mapping of Redir	ecting number, Original called r	number and Redirection Information		
Test Purpose	called number and a to <b>REAS_value</b> as in	Ensure that on receipt of an IAM containing a Redirecting number parameter, an 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	Redirection In Redirectin				
SIP Parameter values					
Comments					
Message flows	ISUP IAM	MGCF → Apply post test ro	Mg → INVITE outine		

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 Redirecti	on number and Call diversion i	nformation	
Test Purpose	the Redirecting reason is set t	CM a Redirection number and to <b>REAS_value</b> as indicated in occurred, a 180 Ringing is sent disrupted.	table 6.2.5-43 is present as	
ISUP Parameter values	ACM: Generic notification=ca Redirection number Call diversion informati Redirecting reason	ion		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	IAM	
	180 Ringing	÷	ACM	
		Apply post test routine		

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

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

## 6.2.6 Explicit Call Transfer (ECT)

TP number	TP_306_001	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/	(2) AND PICS 6.3.2/6	
Test Purpose name	A session is retrieved when a	notification 'call transfer, active	e' in a FAC was received and
	the session is on hold		
Test Purpose			AC message and the Generic
		call transfer, active', a reINVIT	E is sent the a attribute in the
	SDP is set to 'sendrecv'.		
ISUP Parameter values	FAC: Generic notification=tra	nsfer active	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	Mg	MGCF	ISUP
	·····- ·	<b>→</b>	IAM
	1.00,9	4	
	180 Ringing	<del>-</del>	ACM
		_	
	,	<del>-</del>	ANM
	ACK -	•	
	INVITE 2	÷ +	
		<b>,</b>	CPG(hold)
	,	<b>7</b>	
	ACK	-	
	INVITE 3	÷	FAC(call transfer, active)
		•	1710 (oan transfer, active)
	,		
		Apply post test routine	

TP number	TP_306_002	Reference	7.4.8
TSS reference	PSTN-SS/ECT/	1	
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND PICS 6.3.2/6	
Test Purpose name			ng' in a FAC was received and
-	the session is on hold	,	
Test Purpose	I-MGCF: A session is on hold.	Ensure that on receipt of an F	AC message and the Generic
	notification indicator is set to 'c	all transfer, alerting', a reINVI	TE is sent the a attribute in the
	SDP is set to 'sendrecv'.		
ISUP Parameter values	FAC: Generic notification=tran	sfer alerting	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE 1	<del>-</del>	IAM
	100 Trying ←		
	180 Ringing ←	· ·	ACM
	200 OK (INVITE)	· <b>←</b>	ANM
	ACK +	•	Alvivi
	INVITE 2	·	CPG(hold)
	200 OK (INVITE) →	•	
	ACK ←	•	
	INVITE 3	·	FAC(call transfer, alerting)
	200 OK (INVITE)		
	ACK •		
		Apply post test routine	

TP number	TP_306_003		Reference	7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/6			
Test Purpose name				active' in a CPG was received and
	the session is on hold		,	
Test Purpose	O-MGCF: A session is	on hold.	. Ensure that on receipt o	of a CPG message and the Generic
	notification indicator is	set to 'ca	all transfer, active', a relN	NVITE is sent the a attribute in the
	SDP is set to 'sendrec'	v'.		
ISUP Parameter values	CPG: Generic notificat	tion=tran	sfer active	
SIP Parameter values	INVITE 2 SDP a=send	lonly		
	INVITE 3 SDP a=send	Irecv		
Comments				
Message flows	ISUP		MGCF	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
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)
	200 OK (INVITE)	<b>→</b>		
	ACK	<b>←</b>		
	INVITE 3	<b>←</b>	<b>←</b>	CPG(call transfer, active)
	200 OK (INVITE)	<b>→</b>	•	Or O(can narister, active)
	ACK	<del>-</del>		
	AON	~	Apply post test routi	ne

TP number	TP_306_004	Re	eference	7.4.8		
TSS reference	PSTN-SS/ECT/					
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/6					
Test Purpose name		l when a noti		alerting' in a CPG was received and		
Test Purpose	notification indicator i	O-MGCF: A session is on hold. Ensure that on receipt of a CPG message and the Generic notification indicator is set to 'call transfer, alerting', a reINVITE is sent the a attribute in the SDP is set to 'sendrecy'.				
ISUP Parameter values	CPG: Generic notifica	ation=transfe	er alerting			
SIP Parameter values	INVITE 2 SDP a=sen INVITE 3 SDP a=sen					
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM ACM	<b>→</b>	<b>→</b> <b>←</b> <b>←</b>	INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK		
	INVITE 2 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	+	CPG(hold)		
	INVITE 3 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	<b>←</b>	CPG(call transfer, alerting)		
			Apply post test rout	ine		

TP number	TP_306_005	Reference	7.4.8			
TSS reference	PSTN-SS/ECT/					
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.	(PICS 6.3.1/1 OR PICS 6.3.1/2) AND PICS 6.3.2/6				
Test Purpose name	FAC with generic notification	n 'call transfer, active' received	, no mapping			
Test Purpose			ne Generic notification indicator			
	is coded as 'call transfer, ac	tive' and the session is not on	hold, no mapping occurs on the			
	SIP site.					
ISUP Parameter values	FAC: Generic notification=t	ansfer active				
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM	<b>+ +</b>	180 Ringing			
	ANM	+ +	200 OK (INVITE)			
		<b>→</b>	ACK '			
			-			
	FAC(call transfer, active)	<b>→</b>				
		Apply post test routine				

TP number	TP_306_006	Reference	7.4.8
TSS reference	PSTN-SS/ECT/	-	
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1	/2) AND PICS 6.3.2/6	
Test Purpose name	FAC with generic notification	'call transfer, alerting' received,	no mapping
Test Purpose	O-MGCF: Ensure that on rec	eipt of a FAC message and the	Generic notification indicator
	is coded as 'call transfer, aler	ting' and the session is not on h	old, no mapping occurs on the
	SIP site.		-
ISUP Parameter values	FAC: Generic notification=tra	nsfer alerting	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b> →	INVITE
		<b>←</b>	100 Trying
	ACM	<b>+ +</b>	180 Ringing
	ANM	<b>+ +</b>	200 OK (INVITE)
		<b>→</b>	ACK
	FAC(call transfer, alerting)	<b>→</b>	
		Apply post test routine	

	I=5	<u> </u>		T=		
TP number	TP_306_007	Reference		7.4.8		
TSS reference	PSTN-SS/ECT/	PSTN-SS/ECT/				
Selection criteria	(PICS 6.3.1/1 OR PIC	CS 6.3.1/2) AND PICS	6.3.2/6			
Test Purpose name	CPG with generic no	tification 'call transfer,	active' received,	, 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 site.					
ISUP Parameter values	CPG: Generic notific	ation=transfer active				
SIP Parameter values						
Comments						
Message flows	Mg	MGC	F	ISUP		
	INVITE 100 Trying	<b>→</b> ←	→ IA	M		
	180 Ringing	<b>←</b>	<b>←</b> A0	CM		
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b> A1	NM		
		Annly no	← Cl	PG(call transfer, active)		
		дрыу ро	or rear routine			

TP number	TP_306_008	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	) AND PICS 6.3.2/6	
Test Purpose name	CPG with generic notification 'c	all transfer, alerting' received	, no mapping
Test Purpose	I-MGCF: Ensure that on receip	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 site.		
ISUP Parameter values	CPG: Generic notification=trans	sfer alerting	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	→ IAN	Л
	100 Trying ←		
	180 Ringing ←	<b>←</b> AC	M
	OOO OK (INI) (ITE)	<b>7</b> ANI	N 4
	200 OK (INVITE)	<b>←</b> AN	IVI
	ACK →		
		<b>←</b> CP	G(call transfer, alerting)
	Apply post test routine		

## 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 waiting call' in ACM is n	ot interworked	
Test Purpose			y status indicator is set to 'subs 'Call is a waiting call' is not	criber
ISUP Parameter values	ACM: BCI Called party Sta	atus=subscriber free, Gene	eric notification=Call is a waiting	call
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
	180 Ringing	<b>←</b>	← ACM	
		Apply post test ro	utine	

TP number	TP_307_002	Ref	erence		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 '0	Call is a waiting	call' in CPG is no	t 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 party Status=no indication, oBCI=inband info available CPG: Event indication=ALERTING, Generic notification=Call is a waiting call					
SIP Parameter values	183 P-Early-Media:					
Comments						
Message flows	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)	
		Α	oply post test rou	tine		

#### 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) AND PICS 6.3.2/9					
Test Purpose name		Hold and Retrieve requested from the ISUP				
Test Purpose	Ensure that on receipt of a CPG message and the Generic notification is set to 'Remote hold' in the confirmed dialogue, an INVITE or UPDATE is sent. The media stream in the SDP is set to 'sendonly'.  Ensure that on receipt of a CPG message and the Generic notification is set to 'Remote retrieval', an INVITE or UPDATE is sent. The media stream in the SDP is set to 'sendrecv'.					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
	Remote retrieval					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendonly					
	SDP 2					
Comments	a=sendre	ecv				
~ ~	Ma	MGCF	ISUP			
Message flows	Mg	stablish a confirmed dialogu				
	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> <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 requested	d from SIP in reINVITE request				
Test Purpose		Ensure that on receipt of an INVITE request in the confirmed dialogue and the media				
	stream in the SDP is set to 's	stream in the SDP is set to 'sendonly', a CPG message is sent the Generic notification				
	indicator is set to 'remote ho					
		INVITE request in the confirmed				
		sendrecv', a CPG message is se	ent the Generic notification			
	indicator is set to 'remote ret	trieval'.				
ISUP Parameter values	<b>CPG:</b> Generic notification					
	Remote hold					
	Remote retrieval					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=send	donly				
	SDP 2					
	a=send	drecv				
Comments						
Message flows	Mg	MGCF	ISUP			
		Establish a confirmed dialogu				
	INVITE(sendonly)	<b>→ →</b>	CPG(hold)			
	200 OK (INVITE)	<b>←</b>				
	ACK	<b>→</b>				
	INVITE(sendrecv)	<b>→</b> →	CPG(retrieve)			
	200 OK (INVITE)	<b>←</b>				
	ACK	<b>→</b>				
		Apply post test routine				

TP number	TP_308_003	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/	1.0.0.0.00	1			
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 requested from SIP in UPDATE request				
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					
	indicator is set to 'remote retri	eval'.				
ISUP Parameter values	CPG: Generic notification  Remote hold					
	Remote retrieval					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendo	only				
	SDP 2					
	a=sendrecv					
Comments						
Message flows	Mg	MGCF	ISUP			
	E	Establish a confirmed dialogu	ie			
	UPDATE(sendonly)	<b>→</b>	CPG(hold)			
	200 OK (UPDATE)					
	ACK →					
	UPDATE(sendrecv) → CPG(retrieve) 200 OK (UPDATE) ← ACK →					
		Apply post test 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=sendor	nly		
	SDP 2			
	a=inactive	9		
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		

TP number	TP 308 005	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/	rtorororo	7.4.10			
Selection criteria	(PICS 6.3.1/1 OR PICS 6.3.1/2	2) AND DICC 6 2 2/0				
	1,	,				
Test Purpose name	Hold requested from both end	,	IN UTE			
Test Purpose		The session is already set on hold. Ensure that on receipt of an INVITE request and the media stream in the SDP is set to 'inactive', a CPG message is sent and the Notification				
			is sent and the Notification			
LOUID D	indicator is set to 'remote hold					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendo	nly				
	SDP 2					
	a=inactiv	re				
Comments						
Message flows	Mg	MGCF	ISUP			
	Establish a confirmed dialogue					
	CASE A					
	INVITE(SDP 1 = sendonly)	<b>←</b>	← CPG(hold)			
	200 OK (INVITE)	<b>→</b>	,			
	ACK	<b>←</b>				
	CASE B					
	UPDATE(SDP 1 = sendonly)	<b>←</b>				
	200 OK (UPDATE)	<b>→</b>				
	200 OK (UPDATE)	7				
	INIVITE/CDD 2 in a ations.	_3	- CDC/bald/			
	INVITE(SDP 2 = inactive)	<b>→</b>	→ CPG(hold)			
	200 OK (INVITE)	<del>(</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	First hold from SIP. Session inactive, Retrieve requested from SIP				
Test Purpose	receipt of an INVITE request	first from SIP as well as second and the media stream in the SE eric notification indicator is set	P is	set to 'recvonly', a CPG	
ISUP Parameter values	CPG 1: Generic notification Remote hold CPG 2: Generic notification Remote retrieva	1			
SIP Parameter values	INVITE/UPDATE:SDP 1  a=sendonly SDP 2  a=inactive SDP 3  a=recvonly				
Comments					
Message flows	INVITE(SDP 1 = sendonly) 200 OK (INVITE) ACK  CASE A INVITE(SDP 2 = inactive) 200 OK (INVITE) ACK  CASE B UPDATE(SDP 2 = inactive) 200 OK (UPDATE)	MGCF Establish a confirmed dialogu	le →	ISUP CPG 1 (hold) CPG 1 (hold)	
	INVITE(SDP 3 = recvonly) 200 OK (INVITE) ACK	→ ← → Apply post test routine	<b>→</b>	CPG 2 (retrieve)	

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	2) AND PICS 6.3.2/9			
Test Purpose name	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	ond from ISUP. Ensure that on		
			dicator is set to 'remote retrieval',		
		st is sent and the media stre	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		MOOF	IOUD		
Message flows	Mg	MGCF	ISUP		
		stablish a confirmed dial	_		
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG(hold)		
	200 OK (INVITE)	<b>←</b> →			
	ACK	7			
	CASE A				
	CASE A		<b>7</b> ODO(LLL)		
	INVITE(SDP 2 = inactive)	<del>(</del>	← CPG(hold)		
	200 OK (INVITE)	<b>→</b>			
	ACK	<b>←</b>			
	CASE D				
	CASE B				
	UPDATE(SDP 2 = inactive)	<b>←</b> →			
	200 OK (UPDATE)	7			
	CASE A				
			← CPG(retrieve)		
	INVITE(SDP 3 = recvonly)	<b>←</b> →	← CPG(retrieve)		
	200 OK (INVITE)	<b>→</b>			
	ACK	~			
	CASE B				
	UPDATE(SDP 3 = recvonly)	_			
	`	<b>←</b> →			
	200 OK (UPDATE)	-			
		Apply post test routine	<del>-</del>		

TP number	TP_308_008	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 fr	om SI	IP
Test Purpose	The session is set on hold at fi	irst from ISUP as well as seco	nd fro	m SIP. Ensure that on
	receipt of an INVITE request a	and the media stream in the SE	OP is s	set to 'recvonly', a CPG
	message is sent and the Gene	eric notification indicator is set	to 'ren	note 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=recvor	nly		
Comments				
Message flows	Mg	MGCF		ISUP
		stablish a confirmed dialogu	ıe	
	CASE A	_	_	
	INVITE(SDP 1 = sendonly)	<b>←</b>	<b>←</b>	CPG(hold)
	200 OK (INVITE)	<b>→</b>		
	ACK	<b>←</b>		
	CASE B	-		
	UPDATE(SDP 1 = sendonly)	<del>_</del>		
	200 OK (UPDATE)	<b>→</b>		
	N. V. T. (ODD 0			000/1.13
	INVITE(SDP 2 = inactive)	<b>→</b>	<b>→</b>	CPG(hold)
	200 OK (INVITE)	<del>(</del>		
	ACK	<b>→</b>		
	INIVITE/CDD 2	_	_	CDC(retries to)
	INVITE(SDP 3 = recvonly)	<del>)</del>	<b>→</b>	CPG(retrieve)
	200 OK (INVITE)	<b>←</b> →		
	ACK	•		
		Apply post test routine		

TP number	TP_308_009	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/	1			
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 from ISUP				
Test Purpose	The session is set on hold at fi			ton	
_	receipt of a CPG message and	d the Generic notification indi-	icator is set to 'remote retri	ieval',	
	an INVITE or UPDATE reques	t is sent and the media strea	m in the SDP is set to 'rec	vonly'.	
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	nly			
Comments	<b>NA</b>	MOOF	IOUD		
Message flows	Mg	MGCF	ISUP		
	Establish a confirmed dialogue				
	CASE A		<b>7</b> ODO(  - )		
	INVITE(SDP 1 = sendonly)	<b>←</b> →	← CPG(hold)		
	200 OK (INVITE)	7 <del>-</del>			
	ACK	₹			
	CASE B				
		_			
	UPDATE(SDP 1 = sendonly)	<b>←</b> →			
	200 OK (UPDATE)	7			
	INIVITE(SDD 2 - inactive)	<b>→</b>	→ CPG(hold)		
	INVITE(SDP 2 = inactive)	<del></del>	GPG(floid)		
	200 OK (INVITE) ACK	<b>→</b>			
	ACK	7			
	CASE A				
	INVITE(SDP 3 = recvonly)	<b>←</b>	← CPG(retrieve)		
	200 OK (INVITE)	<b>→</b>	Ci G(letileve)		
	ACK	<b>É</b>			
		*			
	CASE B				
	UPDATE(SDP 3 = recvonly)	<b>←</b>			
	200 OK (UPDATE)	<b>→</b>			
	200 01 (01 0/112)	Apply post test routine			
		Apply post test routine			

TP number	TP_308_010		Reference		7.4.10.2
TSS reference	PSTN-SS/HOLD/		recicionoc		7.4.10.2
		10000	(a) AND DIGG 6 6	\(\(\alpha\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DIOC 0 0 0/4
Selection criteria			1/2) AND PICS 6.3.2		
Test Purpose name					JPDATE is sent in early dialogue
Test Purpose	Ensure that on rece	ipt of a C	PG message and the	ne Gen	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.
			is set to sendonly		
ISUP Parameter values	CPG: Generic noti				gee.a etate.
loor rarameter values	Remote				
CID Deservator values		iloiu			
SIP Parameter values	UPDATE: SDP				
_		ndonly			
Comments	A CPG is received a	after an A	CM was sent.		
Message flows	ISUP		MGCF		Mg
	IAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE
				<b>←</b>	100 Trying
	ACM	<b>←</b>	Timeout Ti/w2	_	
	AOW	•	Timeout Ti/WZ		
	000(1.11)				
	CPG(hold)	<b>→</b>		_	
				<b>←</b>	180 Ringing
				<b>→</b>	UPDATE(sendonly)
				<b>←</b>	200 OK (UPDATE)
			Apply post tes	st routi	,

TP number	TP_308_011		Reference	7.4.10.2			
TSS reference	PSTN-SS/HOLD/	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR PIC	S 6.3.1/2)	AND PICS 6.3.2/9 AN	D PICS 6.3.6/1			
Test Purpose name	CPG hold received be dialogue	fore a dia	logue 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 notification Remote hole						
SIP Parameter values	INVITE/UPDATE:SDP						
	a	a=sendon	ly				
Comments							
Message flows	ISUP	_	MGCF	Mg			
	IAM	<b>→</b>	<b>→</b>	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	Refer	ence	7.4.10.2		
TSS reference	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR F	PICS 6.3.1/2) AND	PICS 6.3.2/9 AND	PICS 6.3.6/1		
Test Purpose name	CPG hold received	after several early	dialogues were e	stablished UPDATE is sent on the		
	last established ear	rly dialogue				
Test Purpose				ceipt of a CPG message and the		
	Generic notification	indicator is set to	'remote hold', an l	JPDATE request is sent on the		
	latest established e	early dialogue.				
ISUP Parameter values	CPG: Generic noti	ification				
	Remote	hold				
SIP Parameter values	180 1: To: <approp< th=""><th>oriate URI&gt;; tag=1</th><th></th><th></th></approp<>	oriate URI>; tag=1				
	180 1: To: <approp< th=""><th>oriate URI&gt;; tag=2</th><th></th><th></th></approp<>	oriate URI>; tag=2				
	UPDATE: To: <app< th=""><th></th><th></th><th></th></app<>					
Comments			From tag are equa	I. The different dialogues can be		
	distinguished by the To tag.					
Message flows	ISUP	· ·	MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM ← 180 Ringing 1					
	← 180 Ringing 2					
	CPG(hold)	<b>→</b>	<b>→</b>	UPDATE 2 (sendonly)		
			<b>←</b>	200 OK (UPDATE)		
		Арр	ly post test routi	ne		

TP number	TP_308_013	Reference	e	7.4.10.2	
TSS reference	PSTN-SS/HOLD/				
Selection criteria	(PICS 6.3.1/1 OR	PICS 6.3.1/2) AND PIC	CS 6.3.2/9 AND	D PICS 6.3.6/1	
Test Purpose name	An UPDATE (hold	) is repeated in the ear	ly dialogue afte	er SDP offer answer exchange	
Test Purpose	Ensure that on receipt of an UPDATE request after the session was set on hold indicating a new SDP, an UPDATE request is sent and the media stream is set to 'sendonly' to refresh the previous held state.				
ISUP Parameter values	CPG: Generic no Remote				
SIP Parameter values	INVITE: SDF UPDATE 1: SDF UPDATE 2: SDF	a=sendonly			
Comments					
Message flows	ISUP IAM ACM CPG(hold)	MG <sup>(</sup> → ←	CF → ←	Mg INVITE(SDP1) 180 Ringing UPDATE 1 (sendonly)	
			÷ ÷ ÷	200 OK (UPDATE)  UPDATE 2 (SDP2) 200 OK (UPDATE)  UPDATE 1 (sendonly) 200 OK (UPDATE)	
		Apply <sub>I</sub>	ost test routi	ine	

TP number	TP_308_014	Reference	7.4.10.2			
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	An UPDATE (hold) is sent after					
Test Purpose			that on receipt of a 180 Ringing			
		e, an UPDATE request is s	ent on this dialogue and the media			
	stream is set to 'sendonly'.					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	180 1: To: <appropriate uri=""></appropriate>	; tag=1				
	180 1: To: <appropriate uri="">; tag=2</appropriate>					
	UPDATE 2: To: <appropriate< th=""><th>e URI&gt;; tag=2</th><th></th></appropriate<>	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)			
	G. G(1161G)	<del>-</del>	200 OK (UPDATE)			
	200 ON (OFDATE)					
	400 Dinging 2					
	← 180 Ringing 2					
			LIDDATE O (condents)			
		<b>→</b>	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/	PSTN-SS/HOLD/					
Selection criteria	(PICS 6.3.1/1 OR I	(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 after 20	00 OK INVITE was received when a			
	CPG (hold) was re-						
Test Purpose				gue. Ensure that on receipt of a 200			
				NVITE or UPDATE request is sent			
			endonly' indicating the	e held state.			
ISUP Parameter values	CPG: Generic not						
	Remote						
SIP Parameter values	INVITE/UPDATE 2						
_		a=send	only				
Comments							
Message flows	ISUP	_	MGCF	Mg			
	IAM	<b>→</b>	<b>→</b>				
	ACM	<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>				
	CASE A		<b>→</b>	INVITE 2 (sendonly)			
			<b>+</b>				
			<b>→</b>	ACK			
	CASE B		<b>→</b>	UPDATE 2 (sendonly)			
			<b>+</b>				
			Apply post test rou	,			

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	2) AND PICS 6.3.2/9 AND P	PICS 6.3.6/1				
Test Purpose name	'sendonly' and 'sendrecv' recei	ved from the terminating SI	P user in the early dialogue				
Test Purpose	Ensure that on receipt of an U	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream					
	is set to 'sendonly' a CPG mes	sage is sent and the Gener	ic notification indicator is set to				
	'remote hold'.						
	Ensure that on receipt of an U	PDATE request in the early	dialogue and the media stream				
	is already set on hold the med	a stream is set to 'sendrecy	' in the received UPDATE, a				
	CPG message is sent and the	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				
	IAM →	<b>→</b> Ⅱ	NVITE				
		<b>←</b> 1	00 Trying				
	ACM ←		80 Ringing				
	CPG(hold) ←	<b>←</b> (	JPDATE(sendonly)				
	or G(noid)		200 OK (UPDATE)				
		<b>7</b> 2	LOO OR (OF DATE)				
	CPG(retrieve)	<b>←</b> (	JPDATE(sendrecv)				
	or Streetheve)		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	6.3.1/2) AND PICS 6.3.2/9	AND PIC	S 6.3.6/1
Test Purpose name	'sendonly' and 'sendrecy	r' received from the originat	ting SIP u	ser in the early dialogue
Test Purpose				alogue and the media stream
	is set to 'sendonly', a CP	PG message is sent and the	e Generic	notification indicator is set to
	'remote hold'.			
				alogue and the media stream
		ession is already set on ho		message is sent and the
	Generic notification indic	cator is set to 'remote retrie	val'.	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	+	ACM
	UPDATE(sendonly)	<b>→</b>	<b>→</b>	CPG(hold)
	200 OK (UPDATE)	<b>←</b>		
	UPDATE(sendrecv)	<b>→</b>	<b>→</b>	CPG(retrieve)
	200 OK (UPDATE)	<b>←</b>		
		Apply post test i	routine	

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	om the originating PSTN us	ser in the early dialogue			
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) →		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/	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 se	ent no indication of CCBS				
	facility is present.						
ISUP Parameter values	<b>REL:</b> Cause indicator CCBS po	ossible indicator=CCBS possi	ble				
SIP Parameter values							
Comments	The CCBS possible indicator is	contained in the diagnostic fi	eld of the Cause indicator				
Message flows	Mg	MGCF	ISUP				
	INVITE →	<b>→</b>	IAM				
	100 Trying ←						
	486 Busy Here ←	<b>←</b>	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/	PSTN-SS/CCNR/							
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/11							
Test Purpose name	CCNR possible indication	on received in an ACM, disc	carded						
Test Purpose	Ensure that on receipt o	f an ACM and a CCNR pos	sible indicator is present the value set						
	to 'CCNR possible', a 18	to 'CCNR possible', a 180 Ringing is sent without indication of CCNR facility.							
ISUP Parameter values	ACM: BCI called party s	ACM: BCI called party status indicator=subscriber free, CCNR Possible Indicator=CCNR							
	possible								
SIP Parameter values									
Comments									
Message flows	Mg	MGCF	ISUP						
	INVITE	<b>→</b>	→ IAM						
	100 Trying	←							
	180 Ringing	180 Ringing ← ← ACM							
		Apply post test routine							

TP number	TP_310_002	Refer	ence	7.4.12				
TSS reference	PSTN-SS/CCNR/	PSTN-SS/CCNR/						
Selection criteria	PICS 6.3.1/1 AND PI	PICS 6.3.1/1 AND PICS 6.3.2/11						
Test Purpose name	CCNR possible indica	ation received in	a CPG, discarded					
Test Purpose	Ensure that on receip	ot of a CPG and a	CCNR possible in	dicator is present the value set to				
	'CCNR possible', a 18	80 Ringing is ser	t without indication	of CCNR facility.				
ISUP Parameter values	ACM: BCI called part	ty status indicato	=no indication, oB0	CI=inband info available				
	CPG: Event indicator	CPG: Event indicator= ALERTING, CCNR Possible Indicator=CCNR possible						
SIP Parameter values								
Comments								
Message flows	Mg		MGCF	ISUP				
_	INVITE	<b>→</b>		→ IAM				
	100 Trying ←							
	← ACM(no indication)							
	180 Ringing	<del>(</del>		← CPG ´				
		App	y post test routing	е				

## 6.2.11 Terminal Portability (TP)

TP number	TP_311_0	01	Reference	7.4.13
TSS reference	PSTN-SS/	TP/		
Selection criteria	PICS 6.3.1	I/1 AND PICS 6.3.2/1	2	
Test Purpose name	SUS user	initiated is mapped in	ito an reINVITE SDP sendo	only
Test Purpose	Ensure that	at on receipt of an SL	IS message and the Susper	nd/Resume indicator is set to
	'ISDN sub	scriber initiated', a re	INVITE is sent and the medi	lia stream indicated in the SDP is
	set to 'sen	donly'.		
ISUP Parameter values	SUS: Sus	spend/Resume		
		ISDN subscriber initi	ated	
SIP Parameter values	INVITE:	SDP		
		a=sendonly		
Comments				
Message flows		Mg	MGCF	ISUP
	INVITE	<b>→</b>	<del>)</del>	IAM
	100 Trying			
	180 Ringir	ng ←	+	- ACM
	200 OK (II		<b>+</b>	- ANM
	ACK	<b>→</b>		
	INVITE(se 200 OK (II	• •	<b>+</b>	SUS(user)
	ACK		Apply post test routine	

TP number	TP_311_002		Reference	7.4.13		
TSS reference	PSTN-SS/TP/		Reference	7.4.13		
Selection criteria		00.000/4	0			
	PICS 6.3.1/1 AND PI					
Test Purpose name			to an reINVITE SDP se			
Test Purpose	was received. Ensure indicator is set to 'ISC	A SUS message and the Suspend/Resume indicator is set to 'ISDN subscriber initiated' was received. Ensure that on receipt of an RES message and the Suspend/Resume indicator is set to 'ISDN subscriber initiated', a reINVITE is sent and the media stream indicated in the SDP is set to 'sendrecy'.				
ISUP Parameter values	RES: Suspend/Resu	ıme				
	ISDN subs	criber initia	ated			
SIP Parameter values	INVITE: SDP	INVITE: SDP				
	a=sendrecv					
Comments						
Message flows	ISUP		MGCF	Mg		
_	IAM	<b>→</b>	<b>→</b>	INVITE		
			+	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	ANM	<b>←</b>	<b>+</b>	200 OK (INVITE)		
	7	_	<b>→</b>	,		
	INVITE(sendonly) 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	<b>←</b>	SUS(user)		
	INVITE(sendrecv) 200 OK (INVITE) ACK	<b>←</b> <b>→</b>	+	RES(user)		
			Apply post test rout	tine		

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

TP number	TP_312_001	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 not on hold, notification 'conference established'					
Test Purpose	A session at the I-MGCF is in t	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	s set to 'Conference			
	established' no reINVITE is sent.					
ISUP Parameter values	CPG: Generic notification					
	Conference established					
SIP Parameter values						
Comments	This state is applicable for CONF and 3PTY					
Message flows	Mg	MGCF	ISUP			
	INVITE ->	<b>→</b>	IAM			
	100 Trying ←	•				
	180 Ringing ←	· <b>←</b>	ACM			
	200 OK (INVITE) ←	· <b>←</b>	ANM			
	ACK -					
		<b>←</b>	CPG			
		Apply post test routine				

TP number	TP_312_002	Reference		7.4.14		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/13				
Test Purpose name	O-MGCF: Session no	O-MGCF: Session not on hold, notification 'conference established'				
Test Purpose		A session at the O-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 established' no reINVITE is sent.				
ISUP Parameter values	CPG: Generic notification=					
	Confere	Conference established				
SIP Parameter values						
Comments	This state is applicable for CONF and 3PTY					
Message flows	ISUP	MGCF		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) ACK		
	CPG	<b>→</b>				
		Apply post	test routi	ne		

TP number	TP_312_003	Reference	7.4.14	1		
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, not	ification 'conference establishe	ed'			
Test Purpose	A session at the I-MGCF is in	the confirmed state and set or	hold. E	nsure that on receipt of		
		notification indicator is set to 'C				
		a' attribute in the SDP is set to	'sendre	cv'.		
ISUP Parameter values	CPG 1: Generic notification					
	Remote hold					
	CPG 2: Generic notification	l				
	Conference established					
SIP Parameter values		INVITE 1: SDP				
	a=sendonly					
	INVITE 2: SDP					
	a=sendrecv					
Comments	This state is applicable for 3PTY					
Message flows	Mg	MGCF	• 14	ISUP		
	INVITE	<del>}</del>	→ IA	IMI		
	100 Trying	<del>(</del>		204		
	180 Ringing	<b>←</b>	<b>←</b> A(	CM		
	200 OK (INVITE)	<b>←</b>	<b>←</b> AN	NM		
	ACK	<b>`</b>	• 🗡	VIVI		
	non /					
	INVITE 1 (sendonly)	<b>←</b>	← CF	PG 1		
	200 OK INVITE (recvonly)	<b>→</b>	CI	-01		
	ACK	<del>-</del>				
	ACK T					
	INVITE 2 (sendrecv)	<b>←</b>	<b>4</b> C	PG 2		
	200 OK INVITE (sendrecv)	<b>→</b>	· Or	62		
	ACK	<del>-</del>				
	AOR	Apply post test routine				
		Apply post test routille				

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 hold, notification 'conference established'				
Test Purpose		A session at the O-MGCF is in the confirmed state and set on hold. Ensure that on receipt				
				set to 'Conference established' a		
	reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv'.					
ISUP Parameter values		CPG 1: Generic notification				
	Remote hold					
	CPG 2: Generic notification					
OID D		ce established				
SIP Parameter values	INVITE 1: SDP					
	a=sendonly INVITE 2: SDP					
	a=sendrecv					
Comments	This state is applicable for 3PTY					
Message flows	ISUP MGCF Mg					
Wessage nows	IAM	→ WGC1	<b>→</b>	INVITE		
	I/AlVI	-	ŕ	100 Trying		
	ACM	<b>←</b>	÷	180 Ringing		
	7.0101	•	•	100 Kinging		
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)		
	7 1 1111	•	÷	ACK		
			-	7.6.1		
	CPG 1	<b>→</b>	<b>→</b>	INVITE 1 (sendonly)		
			<b>←</b>	200 OK INVITE (recvonly)		
			<b>→</b>	ACK		
	• AUI					
	CPG 2	<b>→</b>	<b>→</b>	INVITE 2 (sendrecv)		
			<b>←</b>	200 OK INVITE (sendrecv)		
			<b>→</b>	ACK `		
		Apply post test	routi			

TP number	TP 312 005	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	I-MGCF: Session not on hold, notification 'Conference disconnected'					
Test Purpose	A session at the I-MGCF is in the confirmed state not on hold and a conference is					
restruipose	established. Ensure that on receipt of a CPG message the Generic notification indicator is					
			eneric notification indicator is			
ICUD Devementar values		set to 'Conference disconnected' no reINVITE is sent.  CPG 1: Generic notification				
ISUP Parameter values						
	Conference established CPG 2: Generic notification					
015 5	Conference disconnected					
SIP Parameter values						
Comments	This state is applicable for CONF and 3PTY					
Message flows	Mg	MGCF	ISUP			
	INVITE ->	→	IAM			
	100 Trying ←					
	180 Ringing ←	<b>←</b>	ACM			
	200 OK (INVITE) ←	<b>+</b>	ANM			
	ACK ` ´					
		<b>←</b>	CPG 1			
	₹ CFG 1					
		<b>←</b>	CPG 2			
		Apply post test routine	<del></del>			

TD number	TD 242 000	Deference	7 4 4 4		
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, notification 'Conference disconnected'				
Test Purpose	A session at the O-MGCF is in the confirmed state not on hold and a conference is				
	established. Ensure that on rec	eipt of a CPG message the	e Generic notification indicator is		
	set to 'Conference disconnecte	d' no relNVITE is sent.			
ISUP Parameter values	CPG 1: Generic notification				
	Conference established				
	CPG 2: Generic notification				
	Conference disconnected				
SIP Parameter values					
Comments	This state is applicable for CONF and 3PTY				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	NVITE		
		<b>+</b> *	100 Trying		
	ACM ←		180 Ringing		
	ANM ←	← 2	200 OK (INVITE)		
	ANNI		ACK		
	→ MON				
	CDC 4				
	CPG 1 →				
	CPG 2 →				
		Apply post test routine	•		
	J	11.71			

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	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	the confirmed state set on hol	d and a conference is			
	established. Ensure that on re	eceipt of a CPG message the C	Seneric notification indicator is			
		ted' a reINVITE request is sent	the 'a' attribute in the SDP is			
	set to 'sendonly'.					
ISUP Parameter values	CPG 1: Generic notification					
	Remote hold					
	CPG 2: Generic notification					
	Conference established					
	CPG 3: Generic notification					
	Conference dis	sconnected				
SIP Parameter values		INVITE 1: SDP				
	a=sendonly INVITE 2: SDP					
	a=sendrecv					
	INVITE 3: SDP					
	a=sendonly					
Comments	This state is applicable for 3PTY.					
Message flows	Mg	MGCF	ISUP			
Message news	INVITE	→	→ IAM			
	100 Trying	<b>←</b>	2 17 1171			
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	100 Kinging	•	T / (OIVI			
	200 OK (INVITE)	<b>←</b>	← ANM			
	ACK	÷	T / ((VIV)			
	7.01					
	INVITE 1 (sendonly)	←	← CPG 1			
	200 OK INVITE (recvonly)	→	0101			
	ACK	<b>←</b>				
	NOIX	•				
	INVITE 2 (sendrecv)	<b>←</b>	← CPG 2			
	200 OK INVITE (sendrecv)	<b>→</b>	0102			
	ACK	<b>←</b>				
	1	<del>-</del>				
	INVITE 3 (sendonly)	<b>←</b>	← CPG 3			
	200 OK INVITE (recvonly)	<b>→</b>				
	ACK	<del>-</del>				
		Apply post test routine				
	I.					

TP number	TP_312_008	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		notification 'Conference disc	connected'	
Test Purpose		s in the confirmed state set of		
			the Generic notification indicator is	
			sent the 'a' attribute in the SDP is	
	set to 'sendonly'.			
ISUP Parameter values	CPG 1: Generic notificat	ion		
	Remote hold			
	CPG 2: Generic notificat	ion		
	Conference	established		
	CPG 3: Generic notificat	ion		
		disconnected		
SIP Parameter values	INVITE 1: SDP			
	a=sendonly			
	INVITE 2: SDP			
	a=sendrecv			
	INVITE 1: SDP			
	a=sendonly	ODT:		
Comments	This state is applicable for	MGCF	8.4	
Message flows	ISUP		Mg	
	IAM -	A conference is establi		
	IAM <del>-</del>	<del>-</del>	INVITE	
	A CN4	<b>+</b>	100 Trying	
	ACM <b>←</b>	_	180 Ringing	
	ANM •	·	200 OK (INI\/ITE)	
	AINIVI	· · · · · · · · · · · · · · · · · · ·	200 OK (INVITE) ACK	
		7	ACK	
	CPG 1	· •	INIVITE 4 (condent)	
	CPG I	* <del>*</del>	INVITE 1 (sendonly) 200 OK INVITE (recvonly)	
		<b>→</b>	ACK	
		7	ACK	
	CPG 2	· →	INVITE 2 (sendrecv)	
	0.02	<b>→</b>	200 OK INVITE (sendrecv)	
		<b>→</b>	ACK	
		•	NOIC	
	CPG 3	· →	INVITE 3 (sendonly)	
		<b>*</b>	200 OK INVITE (recvonly)	
		<b>•</b>	ACK	
		Apply post test routi		
	1	Apply post tost Touti		

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 Conference established CPG 2: Generic notification isolated CPG 2: Generic notification reattached  SIP Parameter values  INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendorev	TP number	TP_312_009	Reference	7	4.14			
PICS 6.3.1/1 AND PICS 6.3.2/13   I-MGCF: notification 'isolated' and 'reattached' interworked   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			1.0.0.0.00					
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 relNVITE 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 relNVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv'.  ISUP Parameter values  CPG 1: Generic notification								
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 'sendrecy'.  ISUP Parameter values  CPG 1: Generic notification	root raipood							
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								
SDP is set to 'sendrecv'.  ISUP Parameter values  CPG 1: Generic notification								
CPG 1: Generic notification Conference established CPG 2: Generic notification isolated CPG 2: Generic notification reattached CPG 2: Generic notification reattached INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv    Comments			. samasiisa a isiitti = isqas					
Conference established  CPG 2: Generic notification isolated  CPG 2: Generic notification reattached  INVITE 1: SDP  a=sendonly INVITE 2: SDP  a=sendrecv  Comments  This state is applicable for CONF.  Message flows  Mg  MGCF  ISUP  INVITE   ISUP Parameter values								
isolated CPG 2: 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								
CPG 2: Generic notification reattached  SIP Parameter values  INVITE 1: SDP		CPG 2: Generic notificatio						
reattached  SIP Parameter values  INVITE 1: SDP								
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	CPG 2: Generic notificatio							
a=sendonly INVITE 2: SDP a=sendrecv  Comments  This state is applicable for CONF.  Message flows  Mg  MGCF  ISUP  INVITE  INVI								
INVITE 2: SDP  a=sendrecv  This state is applicable for CONF.  Message flows  Mg  MGCF  ISUP  INVITE  INVITE  100 Trying  180 Ringing  4 ACM  200 OK (INVITE)  ACK  ACK	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           ACK         →								
Comments         This state is applicable for CONF.           Message flows         Mg         MGCF         ISUP           INVITE         →         IAM           100 Trying         ←         ACM           180 Ringing         ←         ACM           200 OK (INVITE)         ←         ANM           ACK         →         ANM								
Message flows  Mg  MGCF  ISUP  INVITE  100 Trying  180 Ringing  ←  ACM  200 OK (INVITE)  ACK  ACK		a=sendrecv						
INVITE  100 Trying  180 Ringing  ←  ACM  200 OK (INVITE)  ACK  ←  ANM	Comments							
100 Trying 180 Ringing ← ← ACM  200 OK (INVITE) ← ANM ACK →	Message flows	Mg	MGCF		ISUP			
100 Trying 180 Ringing ← ← ACM  200 OK (INVITE) ← ANM ACK →								
180 Ringing ← ← ACM  200 OK (INVITE) ← ANM  ACK →		1		<b>→</b>	IAM			
200 OK (INVITE) ← ANM ACK			•					
ACK →		180 Ringing	←	<b>←</b>	ACM			
ACK →								
, tert				<b>←</b>	ANM			
← CPG 1		ACK	<b>→</b>					
← CPG 1								
				<b>←</b>	CPG 1			
INVITE 1 (sendonly)			<b>←</b>	<b>←</b>	CPG 2			
200 OK INVITE (recvonly) →								
ACK		ACK	<b>←</b>					
INVITE 2 (sendrecv)				<b>←</b>	CPG 3			
200 OK INVITE (sendrecv) →								
ACK ←		ACK	<del>=</del>					
Apply post test routine			Apply post test routine					

TP number	TP_312_010	Refe	rence	7.4.14	
TSS reference	PSTN-SS/CC	NF/		•	
Selection criteria	PICS 6.3.1/1	AND PICS 6.3.2/13			
Test Purpose name	O-MGCF: not	ification 'isolated' and 'r	eattached' interwo	rked	
Test Purpose	A conference at the O-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				
SIP Parameter values	INVITE 1: SDP  a=sendonly INVITE 2: SDP  a=sendrecv				
Comments	This state is applicable for CONF				
Message flows	ISUF	)	MGCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>+</b>	100 Trying 180 Ringing	
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK	
	CPG 1	<b>→</b>			
	CPG 2	<b>→</b>	→ ← →	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK	
	CPG 3	<b>→</b>	→ ← →	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	
		Арј	oly post test routi	ne	

# 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 PIC	S 6.3.2/14				
Test Purpose name	oFCi CUG outgoing ac	oFCi CUG outgoing access allowed call successful				
Test Purpose	Ensure that on receipt of an IAM the optional Forward call indicator is set to 'CUG with outgoing access allowed' an INVITE is sent. No CUG information is present in the INVITE.					
ISUP Parameter values	IAM: Optional Forwa	rd Call indicator: CUG with ou	utgoing 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 6.3.2/14				
Test Purpose name	oFCi CUG outgoing acc	cess not allowed				
Test Purpose	Ensure that on receipt coutgoing access not allot the INVITE or a REL me	Ensure that on receipt of an IAM the optional Forward call indicator is set to 'CUG with outgoing access not allowed' <b>either</b> an INVITE is sent, no CUG information is present in the INVITE <b>or</b> 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 REL: Cause value (if s 29	d Call indicator: CUG with outg sent)	<u> </u>			
	Diagnostics=	CUG without access				
SIP Parameter values						
Comments						
Message flows	ISUP IAM CASE A	MGCF →	Mg			
			→ INVITE			
	← 100 Trying					
	Apply post test routine					
	CASE B					
	REL #29	<b>←</b>				
	RLC	<del>`</del>				

# 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 6.3.1/1 AND PICS	6.3.2/15			
Test Purpose name	Precedence parameter	received in IAM, discarded			
Test Purpose	Ensure that on receipt of an IAM and a Precedence parameter is present, this parameter is discarded without affecting the ongoing call setup.				
ISUP Parameter values	IAM: Precedence				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
	Apply post test routine				

TP number	TP_314_002	Reference	7.4.17
TSS reference	PSTN-SS/MLPP/	<u>.</u>	
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/15	
Test Purpose name	A REL cause #9 te	rminates an early dialogue	
Test Purpose	Ensure that on rec	eipt of a REL message in an ear	ly dialogue at the O-MGCF and the
		to '9', a CANCEL request is sen and the cause value is set to '9'.	t. A Reason header is contained in the
ISUP Parameter values	REL: Cause = 9		
SIP Parameter values	CANCEL: Reason	: Q.850 [5]; cause=9	
Comments			
Message flows	ISUP	MGCF	Mg
_		A Session is already in	early dialogue
	REL	<b>→</b>	→ CANCEL
	RLC	<b>←</b>	← 200 OK CANCEL
			← 487 Request Terminated
			→ ACK

TP number	TP_314_003	Reference	7.4.17			
TSS reference	PSTN-SS/MLPP/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	15				
Test Purpose name	A REL cause #8 terminates an	early dialogue				
Test Purpose	Ensure that on receipt of a 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 [5]; caus	se=8				
Comments						
Message flows	Mg MGCF ISUP					
	A Session is already in early dialogue					
	4xx/5xx ← REL					
	ACK	<b>→</b>	<b>→</b>	RLC		

TP number	TP_314_004	Reference	7.4.17		
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	15			
Test Purpose name	A REL cause #9 terminates a c	onfirmed 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 [5]; caus	se=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 6.3.1/1 AND PICS 6.3.2/1	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	GVNS user group	Forward GVNS Originating participating service provider				
SIP Parameter values						
Comments						
Message flows	ISUP IAM →	MGCF  →  Apply post test routine	Mg INVITE 100 Trying			

# 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.	3.1/1 AND PICS 6.3.2/17					
Test Purpose name	REV request from the calling	ng user at the call set-up ti	me				
Test Purpose	a REVCallingReqSetup inv	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 REVCallingReq transferRequestingUserN	Setup invoke uested = true					
SIP Parameter values							
Comments							
Message flows	ISUP	MGCF	Mg				
	HAM -		➤ INVITE ► 100 Trying utine				

TP number	TP_316_002	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/1 AND PICS	6.3.1/1 AND PICS 6.3.2/17	,			
Test Purpose name	REV request from the c	alling user during the active	state of the call			
Test Purpose	Remote Operation para	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 affecting the present call.				
ISUP Parameter values	FAC: Remote Operation  REVCallingReqActive invoke  transferRequested = true  callingUserNumber					
SIP Parameter values						
Comments						
Message flows	ISUP MGCF Mg  A confirmed dialogue is already established  FAC   Apply post test routine					

TP number	TP_316_003	Reference	7.4.20			
TSS reference	PSTN-SS/REV/	•	<u> </u>			
Selection criteria	PICS 6.3.7/1 AND I	PICS 6.3.1/1 AND PICS 6.3.2/17				
Test Purpose name	REV request from t	he called user during the active s	tate of the call			
Test Purpose	Remote Operation	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 affecting the present call.				
ISUP Parameter values	REVCalle trans	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 routine					

TP number	TP_316_004	Re	ference	7.4.20	
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 6.3.7/2 AND PICS 6.3.1/1 AND PICS 6.3.2/17				
Test Purpose name		AM explicit rejecte			
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:         <ul> <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</li> </ul> </li> </ul>				
10115 5			etwork and the Caus	se value is set to '29'.	
ISUP Parameter values	IAM: Called party number Remote Operation REVCallingReqSetup invoke transferRequested = true callingUserNumber  ANM: Remote Operation REVCallingReqSetup return error rejectedByNetwork  REL: Cause 29 Remote Operation REVCallingReqSetup return error rejectedByNetwork				
SIP Parameter values		•			
Comments					
Message flows	ISUP IAM CASE A	<b>→</b>	MGCF	Mg	
	ACM ANM CASE B REL	<b>←</b> <b>←</b>	→ ← ← → pply post test routi	INVITE 180 Ringing 200 OK INVITE ACK ine	
	RLC	<b>→</b>			

TP number	TP_316_005	Refe	rence	7.4.20			
TSS reference	PSTN-SS/REV/	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/2 AN	ID PICS 6.3.1/1 AND	PICS 6.3.2/17				
Test Purpose name	REV request in t	the active state expli	cit rejected at the	O-MGCF			
Test Purpose	Ensure that on r and a Remote C component and	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 REVCallingReqActive return error					
		o rejectedByNetwork		rte voamingrioq/io	avo rotam onor		
ISUP Parameter values	REVO tra ca FRJ: Remote O REVO	FAC: Remote Operation  REVCallingReqActive invoke  transferRequested = true  callingUserNumber  FRJ: Remote Operation  REVCallingReqActive return error  rejectedByNetwork					
SIP Parameter values		, ,					
Comments							
Message flows	ISUP MGCF Mg A confirmed dialogue is already established FAC →						
	FRJ						

TP number	TP_316_006	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/2 ANI	D PICS 6.3.1/1 AND PICS 6.3.2/17				
Test Purpose name	REV request in the	ne active state explicit rejected at the	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  REVCalledRequest invoke  transferRequested = true  calledUserNumber  FRJ: Remote Operation  REVCalledRequest return error  rejectedByNetwork					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
		A confirmed dialogue is already established  ← FAC → FRJ  Apply post test routine				

# 6.2.17 User-to-User Signalling (UUS)

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

TP number	TP_317_	_001	Refer	ence		7.4.21.1	.2
TSS reference	PSTN-SS	S/UUS/					
Selection criteria	PICS 6.3	3.1/1 AND PI	CS 6.3.2/18				
Test Purpose name	User-to-ι	user informat	ion received in a	in 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 li	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>				
	Apply post test routine						

TP number	TP_317_002	Reference	7.4.21.1.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/18			
Test Purpose name	User-to-user information recei	ved in a Cancel is sent in a RE	L		
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>lata&gt;; encoding=hex</th><th></th></uuio<>	lata>; encoding=hex			
Comments					
Message flows	Mg INVITE	MGCF →	ISUP IAM		
	CANCEL 200 OK CANCEL 487 Request Terminated ACK	<b>←</b>	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 6.3.1/1 AND P	PICS 6.3.2/18			
Test Purpose name	User-to-user informa	ation received 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	REL: User-to-user Information				
	User Information				
SIP Parameter values	BYE: User-to-User: <uuidata>; encoding=hex</uuidata>				
Comments					
Message flows	Mg	MG	CF	ISUP	
	A confirmed dialogue is already established				
	BYE	<b>→</b>	<b>→</b>	REL	
	200 OK BYE	<b>←</b>	+	RLC	

TP number	TP_317_	004	Reference		7.4.21.1.3
TSS reference	PSTN-SS	S/UUS/			
Selection criteria	PICS 6.3	.1/1 AND PICS 6.3.2	/18		
Test Purpose name	User-to-u	ser information recei	ved in an IAM is sent	in an IN\	/ITE
Test Purpose	is sent ar	Ensure that on receipt of User-to-user parameter contained in an IAM, an INVITE 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 IAM, the encoding parameter is set to 'hex'.			
ISUP Parameter values	IAM: Us	IAM: User-to-user Information			
		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		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 6.3.1/1 AND PICS 6.3.2/	18	
Test Purpose name	User-to-user information receiv	ed in a REL is sent in a CANC	CEL
Test Purpose	Ensure that on receipt of User- confirmed, a CANCEL request		
	parameter is derived from the l the encoding parameter is set to	Jser Information of the User-to	
ISUP Parameter values	REL: User-to-user Information User Information	า	
SIP Parameter values	CANCEL: User-to-User: <uuid< th=""><th>ata&gt;; encoding=hex</th><th></th></uuid<>	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 6.3.1/1 AND PICS 6.3.2/	18				
Test Purpose name	User-to-user information receiv	ed in a REL is sent in a BYE				
Test Purpose	Ensure that on receipt of User-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	CANCEL: User-to-User: <uuid< th=""><th colspan="5">CANCEL: User-to-User: <uuidata>; encoding=hex</uuidata></th></uuid<>	CANCEL: User-to-User: <uuidata>; encoding=hex</uuidata>				
Comments						
Message flows	ISUP	MGCF	Mg			
	A confirmed dialogue is already established					
	REL → BYE					
	RLC ←	<b>←</b>	200 OK BYE			
		Apply post test routine				

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

TP number	TP_317_101	Reference	7.4.21.2	
TSS reference	PSTN-SS/UUS/			
Selection criteria	PICS 6.3.1/1 AND NOT PICS	6.3.8/1		
Test Purpose name	User-to-user indicator service	1 'not essential' received in IAN	1, discarded	
Test Purpose		.M and a User-to-user indicator ential' the call setup is not disru		
ISUP Parameter values	IAM: User-to-user Indicator Request service 1 not essential User-to-user Information User Information			
SIP Parameter values				
Comments				
Message flows	ISUP IAM → ACM ← ANM	MGCF	Mg INVITE 180 Ringing 200 OK INVITE ACK	

TP number	TP_317_102	Reference	7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.8	/1			
Test Purpose name	User-to-user indicator service response in ACM or ANM 'not	1 'not essential' received in IAI provided'	M, User-to-user indicator		
Test Purpose	present the request is 'not ess		r parameter for the service 1 is upted A User-to-user indicator provided'.		
ISUP Parameter values	IAM: User-to-user Indicator Request service 1 not essential User-to-user Information User Information ACM or ANM: User-to-user Indicator Response service 1				
	not Provided				
SIP Parameter values					
Comments	10115				
Message flows	ISUP IAM  ACM  ANM  ←	MGCF  →  ←  →	Mg INVITE 180 Ringing 200 OK INVITE ACK		
		Apply post test routine			

TP number	TP 317 103	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
		0.04				
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.8/1				
Test Purpose name	User-to-user indicator serv	ice 1 'essential' received in	IAM, call is rejected			
Test Purpose			ndicator parameter for the service 1 is			
			ted. A REL is sent the Cause value is			
	set to '29 ' the Diagnostics	field contains the paramete	r name of the User-to-user indicator			
	'42'.					
ISUP Parameter values	IAM: User-to-user Indica	AM: User-to-user Indicator				
	Request service	e 1				
	essential					
	User-to-user Inform	ation				
	User Information					
	REL: Cause indicator					
	Cause 29					
	Diagnostics 42	Diagnostics 42				
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM -	•	_			
	REL €	-				
	RLC -	7				

#### 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 6.3.1/1 AND NOT PICS 6	6.3.8/1				
Test Purpose name	User-to-user indicator service 2	2 'not essential' received in IAM	/l, discarded			
Test Purpose	Ensure that on receipt of an IA	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					
	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 6.3.1/1 AND PICS 6.3.8/1				
Test Purpose name	User-to-user indicator service 2	'not essential' received in IAM	, User-to-user indicator		
	response in ACM or ANM 'not p	provided'			
Test Purpose	Ensure that on receipt of an IAN				
	present the request is 'not esse				
	is sent in an ACM or ANM with	a response for service 2 'not p	rovided'.		
ISUP Parameter values	IAM: User-to-user Indicator				
	Request service 2				
	not essential				
	User-to-user Information	1			
	User Information				
	ACM or ANM:				
	User-to-user Indicator				
	Response service 2				
	not Provided				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<del>(</del>	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 6.3.1/1 AND PICS 6.3.8/	1				
Test Purpose name	User-to-user indicator service 2	2 'essential' received in IAM, ca	ıll is rejected			
Test Purpose	present the request is 'essentia' is set to '29' the Diagnostics fie	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				
ISUP Parameter values	indicator '42'.  IAM: User-to-user Indicator Request service 2 essential User-to-user Information User Information REL: Cause indicator Cause 29					
	Diagnostics 42					
SIP Parameter values		<u> </u>				
Comments		·				
Message flows	ISUP	MGCF	Mg			
	IAM →					
	REL ←					
	RLC →					

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

TP number	TP_317_301	F	Reference		7.4.21.2		
TSS reference	PSTN-SS/UUS/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/18 AND NOT PICS 6.3.8/1						
Test Purpose name	User-to-user indicator service 3 'not essential' received in IAM, discarded						
Test Purpose	Ensure that on re-	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.						
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>		<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/	PSTN-SS/UUS/						
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/18 AND PICS 6.3.8	/1					
Test Purpose name		or service 3 'not essential' rece ANM 'not provided'	eived in IAM, User-to-user indicator					
Test Purpose	present the request		er indicator parameter for the service 3 is is not disrupted A User-to-user indicator vice 3 'not provided'.					
ISUP Parameter values	Request not es User-to-user User Info ACM or ANM:	Request service 3 not essential User-to-user Information User Information ACM or ANM: User-to-user Indicator						
	not Pi	not Provided						
SIP Parameter values		*						
Comments								
Message flows	ISUP IAM ACM ANM	MGCF → ← Apply post test	Mg → INVITE ← 180 Ringing ← 200 OK INVITE → ACK					

TP number	TP_3	17_303	Refere	nce	7.4.21.2		
TSS reference	PSTN	I-SS/UUS/					
Selection criteria	PICS	6.3.1/1 AND PICS	6.3.8/1				
Test Purpose name	User-	to-user indicator s	ervice 3 'esser	tial' received in IAM,	call is rejected		
Test Purpose	Ensu	re that on receipt o	of an IAM and a	User-to-user indicate	tor parameter for the service 3 is		
	prese	nt the request is 'e	essential', the c	all setup is rejected.	A REL is sent the Cause value		
		to '29' the Diagno: ator '42'.	stics field conta	ins the parameter na	ame of the User-to-user		
ISUP Parameter values	IAM:	User-to-user Ind	icator				
		Request serv	rice 3				
		essential					
		User-to-user Info	ormation				
		User Informa	tion				
	REL: Cause indicator						
	Cause 29						
		Diagnostics 4	12				
SIP Parameter values							
Comments							
Message flows		ISUP		MGCF	Mg		
	IAM		<b>→</b>	7	<u>-</u>		
	_	ACM ← 180 Ringing					
	ANM		<b>←</b>	+	Loo Oktiitvii L		
				-	• ACK		
			Appl	y 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	SUP REL message cause #24	4 after the IAM was sent, a 433
	(Anonymity Disallowed) final re	esponse is sent.	
ISUP Parameter values	REL: Cause=24 (call rejected	due to ACR supplementary s	service)
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→ →	• IAM
	100 Trying	<b>←</b>	
	433 (Anonymity Disallowed)	<del>(</del>	• 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			
		an ISUP REL cause #24 is s				
ISUP Parameter values	REL: Cause=24 (call reject	cted due to ACR supplementa	ary service)			
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM =	<b>→</b>	INVITE			
		<b>+</b>	100 Trying			
	REL •	÷ <b>←</b>	433 (Anonymity Disallowed)			
	RLC -	<b>→</b>	ACK			
		Apply post test routine				

## 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 6.3.1/1 AND PI	CS 6.3.1/2) AND PICS 6.3.3/1	AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From	INVITE received. From header not present, P-Asserted-Identity not present. Network					
	provided number is se	ent					
Test Purpose	Ensure that on receipt	of an INVITE request the P-A	sserted-Identity is not present and the				
	From header does not	contain an URI that encodes	an E.164 Address, an IAM is sent.				
		er parameter is present and the	address digits are provided by the				
	SUT.						
ISUP Parameter values	IAM: Calling party I	Number					
	Number inc	complete indicator=Complete					
	Numbering	Plan Indicator=ISDN/Telephoi	ny (Recommendation E.164 [i.1])				
	Nature of A	ddress Indicator					
	If CC er	ncoded in the URI is equal to the	e CC of the country where MGCF is				
	located	AND the next BICC/ISUP node	e is located in the same country then				
	natio	onal (significant) number					
	else						
	inter	international number					
	Screening i	Screening indicator=Network Provided					
		Presentation restriction=restricted or allowed					
	Address sig	Address signal provided by the Network					
		if NOA is "national (significant) number" then set to "NDC" + "SN"					
	If NOA is 'international number" then set to "CC"+" NDC"+"SN"						
SIP Parameter values		-Identity: not present					
	From: does	not contain a URI that encode	s an E.164 address				
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test ro	utine				

TP number	TP_401_002	Reference	7.5.1, 7.2.3.1.2.6					
TSS reference	IMS-SS/OIP-OIR/							
Selection criteria	(PICS 6.3.1/1 AND P	(PICS 6.3.1/1 AND PICS 6.3.1/2) AND PICS 6.3.3/1 AND PICS 6.3.3/4 AND PICS 6.3.2/1						
Test Purpose name	INVITE received. Fro	m header not present, P-Asse	erted-Identity not present. Network					
	provided number is s	****						
Test Purpose			-Asserted-Identity is not present and the					
			s an E.164 Address, an IAM is sent.					
			he address digits are provided by the					
			o 'presentation restricted by network'.					
ISUP Parameter values	IAM: Calling party							
		complete indicator=Complete						
			nony (Recommendation E.164 [i.1])					
		Address Indicator						
			the CC of the country where MGCF is					
			ode is located in the same country then					
		national (significant) number						
		else						
		international number						
		Screening indicator=Network Provided Presentation restriction=presentation restricted by network						
		Address signal provided by the Network						
		if NOA is "national (significant) number" then set to "NDC" + "SN"  If NOA is 'international number" then set to "CC"+" NDC"+"SN"						
SIP Parameter values		d-Identity: not present	I Set to CC + INDC + SIN					
SIF Farailleter values		s not contain a URI that enco	des an E 164 address					
Comments	1 TOTTI. GOE	S Hot contain a ONT that enco	des all E.104 address					
Message flows	Mg	MGCF	ISUP					
message news	INVITE	→	→ IAM					
	100 Trying	<b>É</b>	<b>7</b> I∩IVI					
	Too Trying	Apply post test routine						
		Apply post test	i Outilite					

TP number	TP_401_00	)3	Reference		7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OII	P-OIR/			·		
Selection criteria	NOT PICS	6.3.3/1 AND PICS 6.	3.2/1				
Test Purpose name	INVITE rec		not present, P-Asserte	d-Ident	tity not present. Calling party		
Test Purpose	From head		n URI that encodes ar		Identity is not present and the 4 Address, an IAM is sent.		
ISUP Parameter values	IAM: Call	ing party Number ne	ot 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 100 Trying	<b>→</b>	Apply post test rou	→ tine	IAM		

TP number	TP_401_004	Reference	7.5.1, 7.2.3.1.2.6					
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/2 AND PICS 6.3.3	/3 AND PICS 6.3.2/1						
Test Purpose name	INVITE received. From heade 'Address not available'	r not present, P-Asserted-Ident	ity not present APRI is set to					
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 incomplete indicator=Complete Numbering Plan Indicator='000' Nature of Address Indicator='0000000' Screening indicator=Network Provided Presentation restriction=Address not available Address signal Address digits not present							
SIP Parameter values	INVITE: P-Asserted-Identity: not present							
	From: does not contain a URI that encodes an E.164 address							
Comments								
Message flows	Mg MGCF ISUP  INVITE → IAM  100 Trying ←  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	.2/1					
Test Purpose name	INVITE received. From	header present, P-Asserted-	Identity not present. Network provided				
	number is sent	•					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the						
		an URI that encodes an E.16					
			e address digits are provided by the				
			Generic number parameter and the				
		erived from the Userpart of the	e From header.				
ISUP Parameter values	IAM: Calling party N						
		omplete indicator=Complete					
	Numbering	Plan Indicator= <i>ISDN/Telepho</i>	ny (Recommendation E.164 [i.1])				
		ddress Indicator					
			he CC of the country where MGCF is				
	located /	AND the next BICC/ISUP nod	e is located in the same country then				
	natio	nal (significant) number					
	else						
		national number					
		ndicator=Network Provided					
		n restriction=restricted or allow					
		nal <b>provided by the Network</b>					
		s "national (significant) numbe					
	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						
		omplete indicator=Complete	(D				
			ny (Recommendation E.164 [i.1])				
		n restriction=restricted or allow					
		ndicator=user provided not ve its <b>derived from the 'From' h</b>					
		s national (significant) number					
		s "international number" set to					
SIP Parameter values		Identity: not present	, 33 1 1450 1 314				
on rarameter values		ins a URI that encodes an E.	164 address				
Comments	T TOTTI. COTICA	ins a ord that chooces are E.	104 add1033				
Message flows	Mg	MGCF	ISUP				
Incode the man	INVITE	→	→ IAM				
	100 Trying	÷	Z IMIVI				
	100 Hyllig	Apply post test ro	outine				
	<u> </u>	Apply post test it	/umic				

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 PICS 6.3.3/4 AND PICS 6.3.2/1						
Test Purpose name			dentity not present. Network provided				
- 	number is sent	•					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header contains an URI that encodes an E.164 Address, an IAM is sent. A Calling party number parameter is present and the address digits are provided by the SUT. The Presentation restriction indicator is set to 'presentation restricted by network'. An Additional calling Party number is sent in a Generic number parameter and the Address signals are derived from the Userpart of the From header and the Presentation restriction indicator is set to 'presentation allowed'.						
ISUP Parameter values	IAM: Calling party N	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						
I		Screening indicator=Network Provided					
		Presentation restriction=presentation restricted by network Address signal <b>provided by the Network</b>					
	if NOA i	s "national (significant) number is 'international number" then se					
	_	ling party number					
	Nature of A If CC er located	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					
		complete indicator=Complete					
	Numbering Presentatio	Plan Indicator=ISDN/Telephony n restriction=allowed	y (Recommendation E.164 [i.1])				
	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		-Identity: not present					
		ains a URI that encodes an E.16	64 address				
Comments	1 10111. 30110	and a orn that officerous art Erre					
Message flows	Mg	MGCF	ISUP				
3	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
	,	Apply post test rou					

TP number	TP_401_0	007	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/C						
Selection criteria	PICS 6.3.3/2 AND NOT PICS 6.3.3/5 AND PICS 6.3.2/1						
Test Purpose name	INVITE re	ceived. From header	present, P-Asserted-Ide	entity not present. Address digits			
	omitted						
Test Purpose				erted-Identity is not present and the			
			nat encodes an E.164 A				
				ddress digits omitted. An Additional			
				neter and the Address signals are			
		om the Userpart of the	From header.				
ISUP Parameter values	IAM: Ca	lling party Number					
		Number incomplete i					
		Numbering Plan Indi					
		Nature of Address In					
		Screening indicator=	เกอเพอเห คาองเฉยฉ on=Address not availab	lo.			
			ess digits not present	Additional calling party number			
		Nature of Address In		Additional calling party fidiliber			
				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	arty riambor				
	international 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 derive	ed from the 'From' hea	der			
	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:					
		From: contains a UR	I that encodes an E.164	address			
Comments							
Message flows		Mg	MGCF	ISUP			
	INVITE	<b>→</b>		→ IAM			
	100 Trying	g <b>←</b>					
			Apply post test rout	ine			

TP number	TP 401 0	08 <b>F</b>	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference		IMS-SS/OIP-OIR/						
Selection criteria		3/2 AND PICS 6.3.3/5	AND PICS 6.3.2/1					
Test Purpose name	INVITE red	•	resent, P-Asserted-Iden	tity not present. Calling party				
Test Purpose	From head A Calling p	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header contains an URI that encodes an E.164 Address, an IAM is sent. A Calling party number parameter is omitted. In addition, the Additional calling party number is omitted.						
ISUP Parameter values		lling party Number no ditional calling party						
SIP Parameter values	INVITE: P-Asserted-Identity: not present From: contains a URI that encodes an E.164 address							
Comments								
Message flows	INVITE 100 Trying	Mg →	MGCF	→ IAM				
	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 header	r not present, P-Asserted-Ident	ity present Privacy not present		
Test Purpose	Ensure that on receipt of an IN				
	From header does not contain	an URI that encodes an E.164	Address a Privacy header is		
	not present, an IAM is sent.				
	A Calling party number parame	eter is present and the address	s digits are derived from the		
	P-Asserted-Identity header.				
ISUP Parameter values	IAM: Calling party Number				
		indicator=Complete			
		licator= <i>ISDN/Telephony (Reco</i>	mmendation E.164 [i.1])		
	Nature of Address I				
		n the URI is equal to the CC of			
		e next BICC/ISUP node is locat	ted in the same country then		
		nificant) number			
	else				
	international number				
	Screening indicators				
	Presentation restrict				
	Address signal deri	ved from the P-Asserted-Ide	ntity		
	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	<b>INVITE:</b> P-Asserted-Identity:				
	From: does not contain a URI that encodes an E.164 address				
	Privacy not present				
Comments	<del> </del>		10115		
Message flows	Mg	MGCF	ISUP		
	INVITE	<del>-</del>	IAM		
	100 Trying ←				
		Apply post test routine			

TP number	TP_401_010	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1				
Test Purpose name	INVITE received. From 'none'	header not present, P-Asser	ted-Identity present, Privacy value			
Test Purpose	From header does not header is present set to A Calling party number	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 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"					
SIP Parameter values	INVITE: P-Asserted-I	dentity: present not contain a URI that encode e				
Comments	,					
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM			
		Apply post test ro	outine			

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	PICS 6.3.2/1				
Test Purpose name	INVITE received. From	om header not present, P-Asserte	ed-Identity present, Privacy value 'id'			
Test Purpose		nsure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
		ot contain an URI that encodes a	in E.164 Address and a Privacy			
		et to 'id', an IAM is sent.				
			address digits are derived from the			
			ion is set to 'presentation 'restricted'.			
ISUP Parameter values	IAM: Calling party					
		ncomplete indicator=Complete				
		ig Plan Indicator= <i>ISDN/Telephon</i>	y (Recommendation E.164 [i.1])			
		Address Indicator				
			e CC of the country where MGCF is			
			is located in the same country then			
		tional (significant) number				
		else				
	*****	international number				
		Screening indicator=Network Provided				
		tion restriction=restricted				
		signal derived from the P-Asser				
		if NOA is "national (significant) number" then set to "NDC" + "SN"				
		A is 'international number" then se	et to "CC"+" NDC"+"SN"			
SIP Parameter values		ed-Identity: present				
		From: does not contain a URI that encodes an E.164 address				
	Privacy: id	<u>d</u>				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
		Apply post test ro	utine			

TP number	TP_401_012	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		. From header not present, P-As	serted-Identity present, Privacy value			
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	IAM: Calling p Numb Numb Nature If ( loc els Scree Prese Addre	arty Number er incomplete indicator=Comple ering Plan Indicator=ISDN/Telep e of Address Indicator CC encoded in the URI is equal cated AND the next BICC/ISUP of national (significant) number	te chony (Recommendation E.164 [i.1]) to the CC of the country where MGCF is node is located in the same country then  d sserted-Identity mber" then set to "NDC" + "SN"			
SIP Parameter values	INVITE: P-Ass From:	erted-Identity: present does not contain a URI that end by: user				
Comments		14005	IOUD			
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post tes	ISUP → IAM et routine			

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. From	INVITE received. From header not present, P-Asserted-Identity present, Privacy value				
	'header'					
Test Purpose			sserted-Identity is present and the			
			an E.164 Address and a Privacy			
		to 'header', an IAM is sent.				
			e address digits are derived from the			
			ction is set to 'presentation 'restricted'.			
ISUP Parameter values	IAM: Calling party N					
		complete indicator=Complete				
	•	•	ny (Recommendation E.164 [i.1])			
		ddress Indicator				
		•	he CC of the country where MGCF is			
			e is located in the same country then			
		onal (significant) number				
	else	e 1 1				
		international number				
	Screening indicator=Network Provided					
	Presentation restriction=restricted					
	Address signal derived from the P-Asserted-Identity					
		if NOA is " <i>national (significant) number"</i> then set to "NDC" + "SN" If NOA is ' <i>international number</i> " then set to "CC"+" NDC"+"SN"				
SIP Parameter values			Set to CC + NDC + SN			
SIP Parameter values		<ul> <li>Identity: present</li> <li>not contain a URI that encode</li> </ul>	os an E 164 address			
	Privacy: he		es an E.104 address			
Comments	Filvacy. He	auei				
Message flows	Mg	MGCF	ISUP			
message nows	INVITE	→	→ IAM			
	100 Trying	<del></del>	Z I/NIVI			
	100 Hyllig	<del>-</del>	outine			
		Apply post test ro	Juliile			

TP number	TP_401_014	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-0	DIR/				
Selection criteria		3.3/6 AND PICS 6.3.2/1				
Test Purpose name			rted-Identity present. Privacy header not			
		ional calling party number not omi				
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
			E.164 Address a Privacy header is not			
	present, an IA		,			
	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'					
			sent in a Generic number parameter and			
			art of the From header the Presentation			
		cator is set to 'presentation allowed				
ISUP Parameter values	IAM: Calling	g party Number				
		mber incomplete indicator=Compl	ete			
			ephony (Recommendation E.164 [i.1])			
	Na	ture of Address Indicator				
			I 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				
	Nu	mber incomplete indicator=Compl	oto			
			ephony ( <i>Recommendation E.164 [i.1]</i> )			
		esentation restriction=allowed	prioriy (Necommendation E. 104 [i. 1])			
		eening indicator=user provided no	at verified			
		dress digits derived from the 'Fro				
		if NOA is national (significant) nu				
		If NOA is "international number" s				
SIP Parameter values		Asserted-Identity: present				
		m: contains a URI that encodes a	n E.164 address			
		vacy not present				
Comments						
Message flows	M	g MGCF	ISUP			
- 	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
	, ,	Apply post te	at acception			

Selection criteria NOT PIC Test Purpose name INVITE additions Test Purpose Ensure to From he header in A Calling P-Asser	OIP-OIR/ OS 6.3.3/6 AND P received. From he al calling party nur that on receipt of a	eader present, P-Asserted- mber not omitted	7.5.1, 7.2.3.1.2.6	'none'			
Test Purpose name INVITE additions Test Purpose Ensure to From he header in A Calling P-Asser	received. From he al calling party nur that on receipt of a	eader present, P-Asserted- mber not omitted	Identity present. Privacy header	'none'			
Test Purpose name INVITE additions  Test Purpose Ensure to From he header in A Calling P-Asser	received. From he al calling party nur that on receipt of a	eader present, P-Asserted- mber not omitted	Identity present. Privacy header	'none'			
addition: Test Purpose Ensure to From he header in A Calling P-Asser	al calling party nur that on receipt of a	mber not omitted	,				
Test Purpose Ensure to From he header i A Calling P-Asser	that on receipt of a		additional calling party number not omitted				
From he header i A Calling P-Asser		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the					
header i A Callin P-Asser	From header contains an URI that encodes an E.164 Address, an IAM is sent Privacy						
A Calling P-Asser	s present set to 'n		,	. ,			
P-Asser	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						
lallowed'			in a Generic number parameter a				
			f the From header the Presentati				
		to 'presentation allowed'.					
	Calling party Num						
		olete indicator=Complete					
			ny (Recommendation E.164 [i.1]	1)			
	Nature of Addre	· · · · · · · · · · · · · · · · · · ·	<b>5</b> (	,			
	If CC encod	led in the URI is equal to t	he CC of the country where MGC	CF is			
			le is located in the same country				
		(significant) number	,				
	else	(erge					
		onal number					
	Screening indicator=Network Provided						
		striction=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						
Δ.							
	located AND the next BICC/ISUP node is located in the same country then						
	national (significant) number						
	else	,					
	internationa	al number					
	Number incomp	olete indicator=Complete					
			ny (Recommendation E.164 [i.1]	)			
	Presentation re	striction=allowed					
	Screening indic	ator=user provided not ve	rified				
		derived from the 'From' I					
	if NOA is na	ational (significant) numbe	rthen set to "NDC" + "SN"				
	If NOA is "ir	nternational number" set to	) "CC"+' NDC'+'SN'				
SIP Parameter values INVITE:				- <u></u>			
		a URI that encodes an E.	164 address				
	Privacy: none						
Comments				· <u> </u>			
Message flows	Mg	MGCF	ISUP				
INVITE		<b>→</b>	→ IAM				
100 Tryi	ng	<b>←</b>					
	-	Apply post test ro	outine				

TP number	TP_401_016	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/		<u> </u>			
Selection criteria		3 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'id',					
		party number not omitted				
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
			64 Address, an IAM is sent Privacy			
	header is present		- · · · · · · · · · · · · · · · · · · ·			
	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				
			ent in a Generic number parameter and			
			of the From header the Presentation			
		or is set to 'presentation restricted				
ISUP Parameter values	IAM: Calling par					
		r incomplete indicator=Complete				
			ony (Recommendation E.164 [i.1])			
		of Address Indicator	2 7 ( 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	If Co	C encoded in the URI is equal to	the CC of the country where MGCF is			
			de is located in the same country then			
		national (significant) number				
	else					
		international number				
	Screening indicator=Network Provided					
		tation 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					
	inte	rnational number				
	Numbe	r incomplete indicator=Complete				
	Number	ring Plan Indicator=ISDN/Teleph	ony (Recommendation E.164 [i.1])			
	Present	tation restriction=restricted				
	Screeni	ing indicator=user provided not v	erified			
		s digits derived from the 'From'				
	if NO	OA is national (significant) numb	er then set to "NDC" + "SN"			
	If NO	OA is "international number" set	to "CC"+' NDC'+'SN'			
SIP Parameter values		rted-Identity: present				
	From: c	contains a URI that encodes an E	.164 address			
	Privacy	: id				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
		<b>→</b> ←	→ IAM			

TSS reference			Reference		7.2.3.1.2.6
1.00 101010100	IMS-SS/OIF			•	
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',				
-		alling party numbe			,
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 'user'.  A Calling party number parameter is present and the address digits are derived from the				
	P-Asserted- restricted'. A the Address	Identity header the in Additional callin signals are derive	e Presentation restric	ction indicator is se ent in a Generic nu of the From heade	et to 'presentation umber parameter and
ISUP Parameter values				J.	
ISOF Farameter 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 located AND the next BICC/ISUP node is located in the same country the national (significant) number else				
	Addi Addi N	resentation restricted dress signal der if NOA is "nation. If NOA is 'international calling partiature of Address If CC encoded in located AND the national (significal else international number incomplete lumbering Plan Incresentation restricted in the calling	=Network Provided stion=restricted ived from the P-Ass pal (significant) number ty number Indicator In the URI is equal to the next BICC/ISUP not the part bicator=Complete dicator=ISDN/Teleph stion=restricted the user provided not the twed from the 'From	ber" then set to "Nin set to "CC"+" ND the CC of the couple is located in the couple is located	oc"+"SN"  Intry where MGCF is the same country then the same country the same
			al (significant) numb national number" set		
SIP Parameter values	F	-Asserted-Identity			
Comments					
Message flows	INVITE	Mg		→ IAM	ISUP
	100 Trying	•	<b>-</b>		

TP number	TP_401_018	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OII	R/	,			
Selection criteria		3/6 AND PICS 6.3.2/1				
Test Purpose name		d. From header present, P-Asserted	d-Identity present. Privacy header			
		'header', additional calling party number not omitted				
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
•			64 Address, an IAM is sent Privacy			
		nt set to 'header'.	- · · · · · · · · · · · · · · · · · · ·			
		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				
			ent in a Generic number parameter and			
			of the From header the Presentation			
		ator is set to 'presentation restricted				
ISUP Parameter values	IAM: Calling					
		ber incomplete indicator=Complete	•			
		bering Plan Indicator=ISDN/Teleph				
		re of Address Indicator	1 1/			
	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			
		national (significant) number				
	e	lse				
		international number				
	Scree	ening indicator=Network Provided				
		entation restriction=restricted				
	Address signal <b>derived from the P-Asserted-Identity</b> if NOA is "national (significant) number" then set to "NDC" + "SN"					
	If NOA is 'international number" then set to "CC"+" NDC"+"SN"					
	Additional calling party number					
	Nature of Address Indicator					
	If	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					
		lse				
	ir	nternational number				
	Num	ber incomplete indicator=Complete				
		bering Plan Indicator=ISDN/Teleph				
	Preso	entation restriction=restricted				
	Scree	ening indicator=user provided not v	rerified			
		ess digits derived from the 'From'				
		NOA is national (significant) numb				
	If	NOA is "international number" set	to "CC"+' NDC'+'SN'			
SIP Parameter values	INVITE: P-As	serted-Identity: present				
	From	: contains a URI that encodes an E	.164 address			
	Priva	cy: header				
Comments						
Message flows	Mg	MGCF	ISUP			
-	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
	, ,	Apply post test	routine			
		Apply poor tost				

TP number	TP_401_019	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 header present, P-Asserted-Identity present. Privacy header not				
	present, additional calling party number omitted				
Test Purpose			rted-Identity is present and the		
	From header contains an Uf	RI that encodes an E.164 Ac	ddress a Privacy header is not		
	present, an IAM is sent.				
			dress digits are derived from the		
			ndicator is set to 'presentation		
	allowed'. An Additional calling		s not present.		
ISUP Parameter values	IAM: Calling party Numb				
		ete indicator=Complete			
			Recommendation E.164 [i.1])		
	Nature of Addres				
			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"				
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Identi	• •			
	From: contains a URI that encodes an E.164 address				
Comments	Privacy not prese	rit			
• • • • • • • • • • • • • • • • • • • •	Ma	MGCF	ISUP		
Message flows	Mg INVITE	WIGGF	→ IAM		
		<b>7</b> ←	7 IAW		
	100 Trying	<del>-</del>			
		Apply post test routing	ne		

TP number	TP_401_020	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	er present, P-Asserted-Identity	present. Privacy header 'none',			
		additional calling party number omitted				
Test Purpose		INVITE request the P-Asserted				
	From header contains an UR	RI that encodes an E.164 Addre	ess a Privacy header is set to			
	'none', an IAM is sent.					
		meter is present and the addre				
		he Presentation restriction indi				
		g Party number parameter is n	ot present.			
ISUP Parameter values	IAM: Calling party Number					
		te indicator=Complete				
		ndicator=ISDN/Telephony (Re	commendation E.164 [i.1])			
	Nature of Address					
		I in the URI is equal to the CC				
	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"				
SIP Parameter values		If NOA is 'international number" then set to "CC"+" NDC"+"SN"  NVITE: P-Asserted-Identity: present				
on randington rando		URI that encodes an E.164 ad	dress			
	Privacy: none					
Comments	1					
Message flows	Mg	MGCF	ISUP			
	_	<b>→</b> →	IAM			
	100 Trying	<b>←</b>				
		Apply post 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 I	PICS 6.3.2/1					
Test Purpose name			Identity present. Privacy header 'id',				
		additional calling party number omitted					
Test Purpose	From header contain 'id', an IAM is sent.	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 set to 'id', an IAM is sent.					
			e address digits are derived from the				
			on indicator is set to 'presentation				
10110		tional calling Party number param	neter is not present.				
ISUP Parameter values	IAM: Calling part						
		incomplete indicator=Complete	m. (December detice F 404 (i.41)				
		ng Plan Indicator= <i>iSDN/Telepno.</i> f Address Indicator	ny (Recommendation E.164 [i.1])				
			as CC of the country where MCCF is				
			ne CC of the country where MGCF is e is located in the same country then				
			e is located in the same country then				
	else	national (significant) number					
		international number					
		Screening indicator=Network Provided					
		Presentation restriction=restricted					
		Address signal derived from the P-Asserted-Identity					
		A is "national (significant) numbe					
		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							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test ro	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			Identity present. Privacy header 'user',				
		additional calling party number omitted					
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the					
			Address a Privacy header is set to				
	'user', an IAM is se						
			address digits are derived from the				
		header the Presentation restriction					
		itional calling Party number param	eter is not present.				
ISUP Parameter values	IAM: Calling par						
		incomplete indicator=Complete	(5)				
		ing Plan Indicator=ISDN/Telephoi	ny (Recommendation E.164 [i.1])				
		of Address Indicator	00 (1) 1 1 1005				
			ne CC of the country where MGCF is				
			e 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"					
SIP Parameter values	INVITE: P-Asserted-Identity: present						
	From: contains a URI that encodes an E.164 address						
	Privacy: user						
Comments	j						
Message flows	Mg	MGCF	ISUP				
_	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test ro	utine				
-	•	• • • •					

TP number	TP_401_023	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 h	eader present, P-Asserted	d-Identity present. Privacy header					
-	'header', additional callin	g party number omitted	•					
Test Purpose	Ensure that on receipt of	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the						
		n URI that encodes an E.16	64 Address a Privacy header is set to					
	'header', an IAM is sent.							
			ne address digits are derived from the					
			tion indicator is set to 'presentation					
		calling Party number para	meter is not present.					
ISUP Parameter values	IAM: Calling party Nu							
		nplete indicator=Complete						
			ony (Recommendation E.164 [i.1])					
	Nature of Add							
			the CC of the country where MGCF is					
			de is located in the same country then					
	national (significant) number							
	else							
		international number						
		Screening indicator=Network Provided						
		estriction=restricted						
		derived from the P-Ass						
			per" then set to "NDC" + "SN"					
OID Developed	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							
0	Privacy: head	er						
Comments		МООГ	IOUD					
Message flows	Mg	MGCF	ISUP					
	INVITE	<b>→</b>	→ IAM					
	100 Trying ←							
		Apply post test r	outine					

TP number	TP_401_024	Reference	7.5.1, 7.2.3.2.2.3				
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.2/1						
Test Purpose name	Calling party numbe unavailable From he	r not received, Additional calling eader is sent	g party number not received,				
Test Purpose	party number is pres	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		number not present ber (Additional calling party nun	nber) not present				
SIP Parameter values	•	INVITE: From: sip:unavailable@unknown.invalid P-Asserted-Identity not present					
Comments							
Message flows	ISUP MGCF Mg						
	IAM → 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 contain	ved, Additional calling party nu ing a E.164 URI is sent	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 not present Generic number (Additional calling party number) present 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			
	← 100 Trying					
	Apply post test routine					

TP number	TP_401	026	Refer	ence		7.5.1, 7.2.3	3.2.2.3
TSS reference	IMS-SS/	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3	3.2/1					
Test Purpose name		arty number no d, unavailable F		dditional calling s sent	party nu	ımber receive	ed presentation
Test Purpose	party nur restricted	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		alling party nur seneric number		ent alling party num	ber) pre	sent presenta	ation restricted
SIP Parameter values		INVITE: From: sip:unavailable@unknown.invalid P-Asserted-Identity not present					
Comments							
Message flows		ISUP MGCF Mg					
_	IAM	IAM → INVITE					
		← 100 Trying					
	Apply post test routine						

TP number	TD 404 (	227	Reference		75170000		
	TP_401_0		Reference		7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/C	)IP-OIR/					
Selection criteria	PICS 6.3.	2/1					
Test Purpose name					al calling party number not		
	received,	P-Asserted-Identity	header and From header	are se	ent		
Test Purpose	Ensure th	at on receipt of an IA	M and a Calling party nu	ımber	Presentation restriction		
	indicator i	s set to 'presentation	allowed' and an Addition	nal call	ling party number is not		
	present, a	an INVITE is sent. A	P-Asserted-Identity is pre	esent tl	he URI is derived from the		
					e From header is derived from		
			ing party number. A Priva				
		ne value is not equal	<b>.</b> .	,	·		
ISUP Parameter values	IAM: Calling party number present presentation allowed						
	Generic number (Additional calling party number) not present						
SIP Parameter values	INVITE:	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	IAM → INVITE					
				<b>←</b>	100 Trying		
			Apply post test routi	ine	, <u>, , , , , , , , , , , , , , , , , , </u>		

TP number	TP_401_028	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		per received presentation allowed tion allowed, P-Asserted-Identity	l, 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 allowed' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation allowed', an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the additional calling party number. A Privacy header is not present or if present the value is not equal to 'id'.				
ISUP Parameter values	IAM: Calling party number present presentation allowed 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 additional calling party number Privacy not 'id' or Privacy header not present				
Comments					
Message flows	ISUP IAM	MGCF → Apply post test r	Mg → INVITE ← 100 Trying		
		Apply post test r	outine		

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	IAM: Calling party number present presentation allowed Generic number (Additional calling party number) present presentation restricted					
SIP Parameter values	INVITE: From d P-Asse						
Comments							
Message flows	ISUP	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/	MS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1					
Test Purpose name		d presentation restricted, Addition header 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_03	31	Reference	7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OI	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2	/1				
Test Purpose name			presentation restricted, Addition P-Asserted-Identity header a			
Test Purpose	indicator is the Presen A P-Assert party numb	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:	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>	<b>→</b>	INVITE		
		← 100 Trying				
			Apply post test routine			

TP number	TP_401_032	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	PICS 6.3.2/1					
Test Purpose name			ed, Additional calling party number ty 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 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	IAM: Calling party number present presentation restricted						
	Generic number (Additional calling party number) present presentation restricted						
SIP Parameter values	INVITE: From: sip:anonymous@anonymous.invalid P-Asserted-Identity derived from the calling party number Privacy: 'id'						
Comments							
Message flows	ISUP MGCF Mg						
	IAM	IAM → INVITE					
			<ul><li>100 Trying</li></ul>				
		Apply post test i	routine				

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 presentation restricted by the network, Additional calling				
	party number not received, From header is sent				
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		
		he value 'sip: unavailable @hos	portion'. A Privacy header is		
	not present or if present the v	alue is not equal to 'id'.			
ISUP Parameter values		present presentation restricted b			
	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 → INVITE				
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_401_0	034	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/C	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.	2/1			
Test Purpose name		Calling party number received presentation restricted by the network, Additional calling party number received presentation allowed, From header is sent			
Test Purpose	indicator in number is INVITE is derived from	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: derived from the additional calling party number P-Asserted-Identity not present Privacy not 'id' or Privacy header not present				
Comments					
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	<b>→</b>	INVITE	
		← 100 Trying			
			Apply post test routine		

TP number	TP_401_035	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		eived presentation restrict resentation restrict	ed by the network, Additional calling m header 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 num	ber present presentation r	estricted by the network	
	Generic number (	Additional calling party nu	mber) present presentation restricted	
SIP Parameter values	P-Asserted-Id	available@hostportion entity not present ' or Privacy header not pre	esent	
Comments	The 'hostportion' is imple	mentation dependent		
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
		Apply post test	routine	

# 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	2			
Test Purpose name	INVITE is sent the supported h	eader contains the option tag	'from-change'		
Test Purpose	Optional Forward Call Indicator	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 In	IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested			
SIP Parameter values	INVITE: Supported: from-change				
Comments		-			
Message flows	ISUP MGCF Mg				
	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 I	PICS 6.3.2/2				
Test Purpose name	'from-change' tag n	ot included in a received provis	ional response			
Test Purpose		Ensure that on receipt of a provisional response and the 'from-change' tag is not included the ANM is sent as soon as the 200 OK (INVITE) is received.				
ISUP Parameter values		IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested				
SIP Parameter values		INVITE: Supported: from-change				
Comments						
Message flows	ISUP	MGCF	Mg → INVITE			
	IAM ACM	→ ← ←	← 180 Ringing			
	ANM ← 200 OK (INVITE) → ACK					
		Apply post test routine				

TP number	TP_402_003	Reference	7.5.2			
TSS reference	IMS-SS/TIP-TIR/		•			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	PICS 6.3.1/2 AND PICS 6.3.2/2				
Test Purpose name	'from-change' tag not included	in a received final response				
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: Optional Forward Call Indicators					
	Connected Line Ide	entity Request = requested				
SIP Parameter values	INVITE: Supported: from-change					
	200: from-change tag not included in the Supported header					
Comments		1				
Message flows	ISUP	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE			
	ACM ← 180 Ringing					
	ANM ← 200 OK (INVITE)					
	→ ACK					
		Apply post test routine				

TP number	TP_402	_004	Reference	7.5.2	
TSS reference	IMS-SS/	/TIP-TIR/			
Selection criteria	PICS 6.	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	'from-ch	ange' tag included in	a received provisional respo	onse	
Test Purpose		Ensure that on receipt of a provisional response and the 'from-change' tag is included the timer $T_{TIR1}$ is started. The ANM is sent as soon as the UPDATE request is received and a			
	present.	Generic number with a Number qualifier indicator set to 'additional connected number' is present. The additional connected number is coded as follows:			
		re of Address Indicate		hara OUT is largeted AND the word	
				here SUT is located AND the next	
		"national (significal	n the same country, then se nt) number"	i iO	
	e	else set to			
	Nivers	international numl			
		ber Incomplete Indicator		ering plan (Recommendation	
		64 [i.1])	= 13DN (Тетернопу) питье	ring plan (Recommendation	
			tricted Indicator = Privacv	VA as indicated in table 6.3.2-1	
			r provided, not verified		
	Addı	Address Signals			
		If NOA is "national (significant) number" then set to NDC + SN.			
		If NOA is "international number" then set to CC + NDC + SN In addition a Connected number is present the address signal are derived from the			
				gnal are derived from the	
		ted-Identity in UPDAT			
ISUP Parameter values	IAM: C	Optional Forward Call			
	A NINA.	Connected Line Identity Request = requested  ANM: Connected number			
	Generic number - additional connected number				
SIP Parameter values		INVITE: Supported: from-change			
Sir raiameter values			ded in the Supported header	r	
Comments	100.	Torri oriarigo tag iriolat	iod in the edpported nedder		
Message flows		ISUP	MGCF	Mg	
	IAM	<b>→</b>		→ INVITE	
	ACM	<b>←</b>		← 180 Ringing	
			T <sub>TIR1</sub> started	← 200 OK (INVITE)	
				→ ACK	
	ANM	<b>←</b>		<b>←</b> UPDATE	
				→ 200 OK (UPDATE)	
			Apply post test routine	· · ·	

TP number	TP_402_005	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 in	'from-change' tag included in a received final response				
Test Purpose			se and the 'from-change' tag is included as the UPDATE request is received			
	and a Generic numb	and a Generic number with a Number qualifier indicator set to 'additional connected number' is present. The additional connected number is coded as follows:				
	If CC is equa ISUP node is	Nature of Address Indicator  If CC is equal to the country code of the country where SUT is located AND the next ISUP node is located in the same country, then set to  "national (significant) number"				
	else set to " <i>internati</i> e	onal number" lete Indicator = complete				
	Numbering Plan E.164 [i.1])	Indicator = ISDN (Telephony)	numbering plan (Recommendation			
		Address Presentation Restricted Indicator = <b>Privacy_VA</b> as indicated in table 6.3.2-1 Screening Indicator = user provided, not verified				
	If NOA is "national (significant) number" then set to NDC + SN. If NOA is "international number" then set to CC + NDC + SN					
	In addition a Connected 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  Connected number					
SIP Parameter values	Generic number - additional connected number  INVITE: Supported: from-change 200: from-change tag included in the Supported header					
Comments	200. Hom change	tag moradou in the Supported i	1000			
Message flows	ISUP	MGCF	Mg → INVITE			
	ACM	← T <sub>TIR1</sub> started	<ul><li>← 180 Ringing</li><li>← 200 OK (INVITE)</li></ul>			
			→ ACK			
	ANM	<b>←</b>	<ul><li>← UPDATE</li><li>→ 200 OK (UPDATE)</li></ul>			
		Apply post test r	outine			

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/	<u> </u>	•			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/2				
Test Purpose name	Timer T <sub>TIR1</sub> expires	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	. Connected Li	IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested  ANM: Connected number				
SIP Parameter values		11				
Comments						
Message flows	ISUP IAM ACM	MGCF → ← T <sub>TIR1</sub> started	Mg → INVITE ← 180 Ringing ← 200 OK (INVITE) → ACK			
	ANM	← T <sub>TIR1</sub> expired  Apply post test re	outine			

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	I 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 _ine Identity Request = requ	ested	
SIP Parameter values	<b>INVITE:</b> 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/		[····		
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name		Mapping of Additional connected number presentation allowed into the From header in an			
Test Purpose	Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described below Generic number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator  presentation allowed then no Privacy header present or not "header" or not "user"  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used				
	The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used  "international number"  Map complete Connected Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator  presentation allowed then no Privacy header present or not "header" or not "user"  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used.				
ISUP Parameter values	IAM: Optional forward call indicator				
SIP Parameter values	INVITE: Supported: from-change 200 OK: P-Asserted-Identity Supported: from-change UPDATE: From: <derived additional="" connected="" from="" number="" the=""></derived>				
Comments					
Message flows	Mg INVITE 180 Ringing 200 OK (INVITE) UPDATE 200 OK (UPDATE)	MGCF	ISUP  → IAM ← ACM ← ANM		

TSS reference 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  Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described beld Generic number  Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used "international number" Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows Connected number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used "international number"	ber is sent. below		
Test Purpose name  Mapping of Additional connected number presentation restricted into the From header in an UPDATE request  Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described belowed Generic number Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator  presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used	ber is sent. below		
Test Purpose name  Mapping of Additional connected number presentation restricted into the From header in an UPDATE request  Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described belowed Generic number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator  presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used	ber is sent. below		
Test Purpose  Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described belonger in the And 'terestal in the And 'terestal in the And the And 'terestal in the And the And 'terestal in the And	ber is sent. below		
Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described below Generic number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used	sent. below ldress		
The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described belongeric number.  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used	below		
Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used			
"national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used			
Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used			
"international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used	user		
portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows Connected number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used	user		
presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows Connected number  Nature of Address Indicator "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used			
Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used  The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used			
The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used			
Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used			
Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used			
"national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used			
Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used			
Address Signals then map to user portion of URI scheme used			
Map complete Connected Number Address Signals used prefixed with a "+" to us portion of URI scheme used	to user		
Address Presentation restriction indicator			
presentation restricted then Privacy: <b>header</b>			
Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used.			
ISUP Parameter values IAM: Optional forward call indicator			
Connected Line Identity Request = requested			
ANM: Generic number			
additional connected number			
Address Presentation restriction indicator = presentation restricted			
SIP Parameter values INVITE: Supported: from-change			
200 OK: P-Asserted-Identity Supported: from-change			
UPDATE: From: <derived additional="" connected="" from="" number="" the=""></derived>			
P-Asserted-Identity: <derived connected="" from="" number="" the=""></derived>			
Comments			
Message flows Mg MGCF ISUP			
INVITE → IAM			
180 Ringing ← ← ACM			
200 OK (INVITE)   ANM			
UPDATE <b>←</b>			
200 OK (UPDATE) →			
Apply post test routine			

## 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 num	ber	
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	maioatoi		
	Derived from the last History-Info entry			
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;="">; index=1.1</sip:any></sip:any>			
Comments		•		
Message flows	ISUP	MGCF	Mg	
	IAM →	→ IN	/ITE	
	ACM ←		1 Call Is Being Forwarded	
		Apply post test routine		

TP number	TP_403_002	Re	ference	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 in ACM			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The History-Info entry containing a cause parameter. A Generic Notification parameter is sent in the ACM set to 'call is diverting'.			
ISUP Parameter values	ACM: Generic No call is o	otification diverting		
SIP Parameter values		<sip:any (<="" proper="" th=""><th>JRI&gt;; index=1, JRI;cause=any&gt;; in</th><th>dex=1.1</th></sip:any>	JRI>; index=1, JRI;cause=any>; in	dex=1.1
Comments		1 71 1	<u> </u>	
Message flows	ISUP		MGCF	Mg
_	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<del>(</del>	181 Call Is Being Forwarded
	Apply post test routine			tine

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 6.3.2/5		
Test Purpose name	Mapping of 181 escaped Privacy header into ACM Redirection number restriction		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), an ACM is sent.		
	The Redirection number restriction is set according the escaped Privacy header in the		
	last History entry as indicated in table 6.3.3-1.		
ISUP Parameter values	ACM: Redirection number restriction= PRES_restr		
SIP Parameter values	181:		
	History-Info: <sip:any prop<="" th=""><th>er URI&gt;; index=1,</th><th></th></sip:any>	er URI>; index=1,	
	<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	81 Call Is Being Forwarded
		Apply post test routine	-

TP number	TP_403_004	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 F	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Priv	Mapping of 181 Privacy header into ACM Redirection number restriction			
Test Purpose	Ensure that on rece	Ensure that on receipt of 181 (Call Is Being Forwarded), an ACM is sent.			
	The Redirection nur	The Redirection number restriction is set according the <b>Privacy header</b> as indicated in			
	table 6.3.3-1.				
ISUP Parameter values	ACM: Redirection number restriction= PRES_restr				
SIP Parameter values	181:	181:			
	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>	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	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_005	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	Mapping of 181 Privacy header into ACM Notification subscription 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 Information parameter is set				
	according the Privacy header in the message body as indicated in table 6.3.3-2.				
ISUP Parameter values	ACM: Call Diversion Information				
	Notification subscription options=SUBS_options				
SIP Parameter values	181:				
	Privacy: <b>Priv-value</b>	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri;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>	← 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_006	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 AN	D PICS 6.3.2/5		
Test Purpose name	Mapping of 181	Mapping of 181 escaped Privacy header into ACM Notification subscription options		
Test Purpose	header field in the The Notification	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	sion Information ation opt	ions= <b>SUBS_opti</b>	ons
SIP Parameter values	181: History-Info:	181:  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any privacy="Priv-value" proper="" uri;cause="any" value?="">; index=1.1</sip:any></sip:any>		
Comments				
Message flows	ISUP	N	IGCF	Mg
	IAM	<b>→</b>	→	INVITE
	ACM ← 181 Call Is Being Forw			
		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_007	Referenc	е	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 181 hi-t	Mapping of 181 hi-targeted-to-uri into ACM Redirecting Reason			
Test Purpose	Ensure that on rece	Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The cause			
				cting reason in the Call Diversion	
	Information parameter is set as indicated in table 6.3.3-4.				
ISUP Parameter values	ACM: 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	MGC	F	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test routine				

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

CAUSE	CAUSE_value	Redirecting_Reason
VA_01	404	Unknown
VA_02	302	Unconditional
VA_03	486	User busy
VA_04	408	No reply
VA_05	480	Deflection immediate
VA_06	503	Mobile subscriber not reachable
VA_07	487	Deflection during alerting

TP number	TP_403_008	Reference	7.5.4.2.1			
			Table 7.5.4.2.1.7			
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.5/3 AND PICS 6.3.	PICS 6.3.5/3 AND PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Mapping of 181 hi-targeted-to-	Mapping of 181 hi-targeted-to-uri cause parameter 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 6.3.3-5.					
ISUP Parameter values	CPG: Event=Redirecting_Reason Redirection number Call Diversion Information					
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM → ACM ← CPG ←	<b>←</b> 181	ITE Ringing 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_009	Reference	7.5.4.2.1			
			Table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	PICS 6.3.1/2 AND PICS 6.3.2/5				
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:					
	<ul> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:         Nature of address indicator is set to 'national (significant) number', '+' and the             country code is removed from the digit string and sent in the Address signal of the             Redirection number.     </li> </ul>					
	If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number.					
ISUP Parameter values	CPG: Redirection number					
	Nature of address indicator					
	Address signal					
	Derived from the last History-Info entry					
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>					
Comments	IOUE	14005				
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 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AN	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Sending of Gene	Sending of Generic Notification in the CPG				
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The History-Info entry containing a cause A Generic Notification parameter is sent in the CPG message set to 'call is diverting'.					
ISUP Parameter values	CPG: Generic Notification call is diverting					
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;="">; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP		MGCF	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_403_011	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 CPG 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>CPG:</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>	180 Ringing	
	CPG ←	<del>-</del>	181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP 403 012	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 Privacy heade	r into early CPG Redirection	number restriction	
Test Purpose	Ensure that on receipt of 181 (			
	The Redirection number restric	ction is set according the Priv	acy header as indicated in	
	table 6.3.3-1.			
ISUP Parameter values	CPG: Redirection number res	triction= PRES_restr		
SIP Parameter values	181:			
	Privacy= <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>			
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_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 PIC	S 6.3.2/5			
Test Purpose name	Mapping of 181 Privac	y header into CPG Notifica	tion subscription options		
Test Purpose	CPG is sent. The Notification subscr	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a			
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 cause="any" proper="" uri;="" value="">; index=1.1</sip:any></sip:any>				
Comments			·		
Message flows	ISUP	MGCF	Mg		
_	IAM ACM CPG	→ ← ← Apply post test	→ INVITE ← 180 Ringing ← 181 Call Is Being Forwarded routine		

TP number	TP_403_014	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	5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notifi	cation subscription options	
Test Purpose	Ensure that on receipt of 181 (		containing an escaped Privacy	
	header field in the last hi-target			
	The Notification subscription or			
	according the escaped Privacy	header in the last History	entry as indicated in table 6.3.3-3.	
ISUP Parameter values	CPG: Call Diversion Information	on		
	Notification subscrip	tion options=SUBS_option	ons	
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>	<b>←</b>	180 Ringing	
	CPG ←	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP_403_015	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 hi-targeted-to-	-uri into CPG Redirecting Re	ason	
Test Purpose	Ensure that on receipt of 181			
	entry containing a cause para			
	Diversion Information paramet		e 6.3.3-4.	
ISUP Parameter values	CPG: Call Diversion Informat	ion		
	Redirecting reasons	= 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>	NVITE	
	ACM ←	<b>←</b> 1	80 Ringing	
	CPG ←	<b>←</b> 1	81 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP_403_016	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 180 hi-targeted-to	-uri into ACM Redirection numb	per	
Test Purpose	<ul> <li>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:</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: Backward call indicate Called party status Redirection number Nature of address Address signal Derived from the	=subscriber free		
SIP Parameter values	Derived from the last History-Info entry 180:			
	History-Info: <sip:any pr<="" th=""><th>oper URI&gt;; index=1, oper URI;cause=any&gt;; index=1</th><th>.1</th></sip:any>	oper URI>; index=1, oper URI;cause=any>; index=1	.1	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ INV	• • =	
	ACM ←		Ringing	
	Apply post test routine			

TP number	TP_403_017	Referen	ce	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 in an AC	M free		
Test Purpose	Ensure that on re	eceipt of 180 (Ringing) a	n ACM (subsc	riber free) is sent. The last	
	History-Info entry	containing a cause par	ameter. A Ger	neric Notification parameter is sent in	
	the ACM set to 'c	all is diverting'.			
ISUP Parameter values	ACM: Backward	call indicator			
		party status=subscribe	r free		
	Generic N	Generic Notification			
	call is diverting				
SIP Parameter values	180:				
	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	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

TP number	TP_403_018	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	cy header into ACM Redire	ection number restriction		
Test Purpose	Ensure that on receipt of 180 (	Ringing), an ACM (subscri	ber free)is sent.		
	The Redirection number restric	ction 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	ACM: Backward call indicator				
	Called party status=	Called party status=subscriber free			
	Redirection number restriction= 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>	180 Ringing		
	Apply post test routine				

TP number	TP_403_019	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 Privacy heade	er into ACM Redirection no	umber restriction		
Test Purpose	Ensure that on receipt of 180				
	The Redirection number restri	ction is set according the	Privacy header as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	ACM: Backward call indicator	ACM: Backward call indicator			
	Called party status:				
	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>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP 403 020	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 ANI	D PICS 6.3.2/5			
Test Purpose name	Mapping of 180 F	Privacy header into ACM N	Notification su	ubscription options	
Test Purpose	free) is sent.		· ·	vacy header, an ACM (subscriber	
		subscription options in the ivacy header in the mess		n Information parameter is set indicated in table 6.3.3-2.	
ISUP Parameter values	ACM: Backward	ACM: Backward call indicator			
	Called	party status=subscriber f	ree		
	Call Divers	Call Diversion Information			
	Notific	Notification subscription options=SUBS_options			
SIP Parameter values	180:	180:			
	Privacy: <b>Priv</b> -	Privacy: <b>Priv-value</b>			
	History-Info:	<sip:any proper="" uri="">; inc</sip:any>	dex=1,		
	,	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>			
Comments					
Message flows	ISUP	MGCF	=	Mg	
_	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<del>(</del>	180 Ringing	
	Apply post test routine			5 5	

TP number	TP_403_021	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 ACM No	otification 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 <b>escaped Privacy header</b> in the last History entry as indicated in table 6.3.3-3.			
ISUP Parameter values	ACM: Backward call indicator Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS options			
SIP Parameter values	180: History-Info: <	sip:any proper URI>; index=1,	ue? <i>Privacy=<b>Priv-value</b>&gt;</i> ; index=1.1	
Comments				
Message flows	ISUP IAM ACM	MGCF → ← ←	180 Ringing	
	Apply post test routine			

TP number	TP_403_022	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 180 hi	-targeted-to-uri into ACM Re	directing Reason			
Test Purpose	History-Info entry	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 Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.3.3-4.				
ISUP Parameter values	Redirection Call Divers	party status=subscriber free	Reason			
SIP Parameter values		<pre><sip:any proper="" uri;cause="&lt;br"><sip:any proper="" uri="">; index</sip:any></sip:any></pre>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	IAM → INVITE				
	ACM	<b>←</b>	<ul> <li>180 Ringing</li> </ul>			
		Apply post test routine				

TP number	TP_403_023	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 180 hi-targeted-to-	uri into CPG Redirection n	umber		
Test Purpose	Ensure that on receipt of 180 (Ringing) a CPG Alerting 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.  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 str number.	ng and sent in the Addres	s signal of the Redirection		
ISUP Parameter values	CPG: Event=Alerting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry				
SIP Parameter values	180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;="">; index=1.1</sip:any></sip:any>				
Comments		pro a year se end, then	-		
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ← CPG	<del>←</del>	181 Call Is Being Forwarded 180 Ringing		
		Apply post test routin	е		

TP number	TP_403_024	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 I	PICS 6.3.2/5				
Test Purpose name	Sending of Generic	Notification in a CPG aft	er 180			
Test Purpose		Ensure that on receipt of 180 (Ringing) a CPG Alerting is sent. The last History-Info entry containing a cause parameter. The CPG contains the Generic Notification parameter set to				
ISUP Parameter values	CPG: Event=Alerti Generic Not call is div	tification				
SIP Parameter values		sip:any proper URI>; inde sip:any proper URI;caus				
Comments						
Message flows	ISUP	MGCF		Mg		
	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 181 Call Is Bei	ng Forwarded		
	CPG	<b>←</b>	180 Ringing			
	Apply post test routine					

TP number	TP_403_025	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/	<sup>′</sup> 5			
Test Purpose name	Mapping of 180 escaped Priva	cy header into CPG Redir	rection number restriction		
Test Purpose	Ensure that on receipt of 180 (				
			escaped Privacy header in the		
	last History entry as indicated	in table 6.3.3-1.			
ISUP Parameter values	CPG: Event=Alerting				
	Redirection number res	striction= 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_026	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 Privacy heade	r into CPG Redirection nui	mber restriction		
Test Purpose	Ensure that on receipt of 180 (				
	The Redirection number restric	ction is set according the P	rivacy header as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	CPG: Event=Alerting				
	Redirection number res	triction= 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>	INVITE		
	ACM ←	<del>-</del>	181 Call Is Being Forwarded		
	CPG ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_403_027	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 PI	ICS 6.3.2/5				
Test Purpose name	Mapping of 180 Priva	acy header into CPG Notificati	on subscription options			
Test Purpose	Ensure that on receip	pt of 180 (Ringing) containing	a Privacy header, a CPG Alerting is			
-	sent.					
	The Notification subs	scription options in the Call Div	rersion Information parameter is set			
	according the Privac	cy header in the message bod	y as indicated in table 6.3.3-2.			
ISUP Parameter values	CPG: Event=Alertin	CPG: Event=Alerting				
	Call Diversion	Information				
	Notificatio	n subscription options=SUBS_	_options			
SIP Parameter values	180:	180:				
	Privacy: <b>Priv-val</b>	Privacy: <b>Priv-value</b>				
	History-Info: <si< th=""><th colspan="5">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></si<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<si< th=""><th>p:any proper URI;cause=any</th><th>value&gt;; index=1.1</th></si<>	p:any proper URI;cause=any	value>; 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 routine					

TP number	TP_403_028	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 ANI	D PICS 6.3.2/5		
Test Purpose name	Mapping of 181 e	escaped 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 escaped Privacy header 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	→ ← ← Apply post test	→ INVITE	

TP number	TP_403_029	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 180 hi-targeted-to	-uri into CPG Redirecting R	eason		
Test Purpose			sent. The last History-Info entry		
			ting reason in the Call Diversion		
	Information parameter is set a	s indicated 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>	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	CPG ←	<b>←</b>	180 Ringing		
		Apply post test routine			

TP number	TP_403_030	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	-to-uri into ANM Redirecti	on number			
Test Purpose	Ensure that on receipt of 200 C containing a cause parameter i	s mapped into the Redire	ction number:			
	Nature of address indicato country code is removed for Redirection number.	<ul> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:         Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.     </li> </ul>				
	<ul> <li>If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number.</li> </ul>					
ISUP Parameter values	ANM: Redirection number					
	Nature of address indicator					
	Address signal					
CID Developed	Derived from the last History-Info entry 200:					
SIP Parameter values						
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
Comments	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>					
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 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 PIC	CS 6.3.2/5			
Test Purpose name	Mapping of 200 escap	ed Privacy header into ANI	M Redirection number restriction		
Test Purpose	Ensure that on receipt	t of 200 (INVITE), an ANM i	s sent.		
-	The Redirection numb	per restriction is set according	ng the escaped Privacy header in the		
	last History entry as ir	ndicated in table 6.3.3-1.			
ISUP Parameter values	ANM: Redirection nu	mber restriction= PRES_res	str		
SIP Parameter values	200 OK:	200 OK:			
	History-Info: <sip< th=""><th>:any proper URI&gt;; index=1,</th><th></th></sip<>	:any proper URI>; index=1,			
	<sip< th=""><th colspan="4"><sip:any privacy="Priv-value" proper="" uri;cause="any" value?="">; index=1.1</sip:any></th></sip<>	<sip:any privacy="Priv-value" 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 routine				

TP number	TP_403_032	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 PIC	CS 6.3.2/5			
Test Purpose name	Mapping of 200 Priva	cy header into ANM Redire	ection number restriction		
Test Purpose		t of 200 OK (INVITE), an A			
	The Redirection numb	per restriction is set accord	ing the <b>Privacy header</b> as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	ANM: Redirection nu	mber restriction= PRES_re	estr		
SIP Parameter values	200 OK:				
	Privacy= <b>Priv-valu</b>	ie –			
	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" value="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	CPG	<b>←</b>	← 180 Ringing		
	ANM	<b>←</b>	◆ 200 OK ÎNVÎTE		
			→ ACK		
	Apply post test routine				

TP number	TP_403_033	Reference	7.5.4.2.1		
i i iidiiibei	11 _403_033	Kelelelice	Table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/		Table 7.5.4.2.1.2		
Selection criteria		C 2 2/F			
	PICS 6.3.1/2 AND PICS				
Test Purpose name		rgeted-to-uri into CON Redired			
Test Purpose			ent. The History-Info entry containing		
		pped into the Redirection num			
			code where the SUT is located:		
	Nature of address in	dicator is set to 'national (sign	nificant) number', '+' and the		
	country code is remo	oved from the digit string and s	sent in the Address signal of the		
	Redirection number.		-		
	<ul> <li>If the country code o</li> </ul>	f the hi-targeted-to-uri is not e	qual the country code where the		
	SUT is located: Natu	re of address indicator is set t	o 'international number' '+' is		
	removed from the di	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:				
		v proper URI>: index=1			
	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	το.ρ.α	y propor orangeadoc-any vand	index-111		
Message flows	ISUP	MGCF	Mg		
Message news		<b>→</b> →	INVITE		
		<del>-</del>	200 OK INVITE		
	CON	=			
	→ ACK				
		Apply post test rout	ine		

TP number	TP_403_034	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 200 escaped Priva	acy header into CON Redi	rection number restriction		
Test Purpose	Ensure that on receipt of 200				
			escaped 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>				
	<sip:any privacy="Priv-value" proper="" uri;cause="any" value?="">; index=1.1</sip:any>				
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_035	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 P	ICS 6.3.2/5		
Test Purpose name	Mapping of 200 Priva	acy header into CON Red	rection number restriction	
Test Purpose	Ensure that on receipt of 200 OK (INVITE), a CON is sent.  The Redirection number restriction is set according the <b>Privacy header</b> as indicated in table 6.3.3-1.			
ISUP Parameter values	CON: Redirection n	CON: Redirection number restriction= PRES_restr		
SIP Parameter values	200 OK:  **Privacy=Priv-value**  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any cause="any" proper="" uri;="" value="">; index=1.1</sip:any></sip:any>			
Comments		· · · · ·	•	
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	CON	CON ← 200 OK INVITE		
	→ ACK			
	Apply post test routine			

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 6.3.2/5		
Test Purpose name	Mapping of Redirecting	number Address signals int	o History-Info header URI	
Test Purpose	called number parametesent and a History-Info	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	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Redirecting number
VA_02	international number	Add '+' to the Address Signal digits of the Redirecting number

TP number	TP_403_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 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of Redirecting numbe	r Address presentation restrict	ed into History-Info header
	Privacy value		
Test Purpose	Ensure that on receipt of an IAI		
	parameter and a Redirection In		
	History-Info header is present.		
	to-uri and the PRIV_value is m		entation restricted indicator of
	the Redirecting number as indi-	cated 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="">; ir</sip:any>	ndex=1.	
	<pre><sip: any="" proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1</sip:></pre>		
	<pre><sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:></pre>		
Comments	propor or myou		
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_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 6.3.2/	5		
Test Purpose name	Mapping of Redirection Inform	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 present. A Privacy header is escaped in the second last			
	hi-targeted-to-uri and the PRIV	hi-targeted-to-uri and the <b>PRIV_value</b> is mapped from the Redirecting 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="" proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1  <sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:></sip:></sip:>			
Comments				
Message flows	ISUP IAM →	MGCF → INV	Mg 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_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 P	ICS 6.3.2/5		
Test Purpose name	Mapping of Redirecti	ion Information Redirection	on 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 Information  Redirection counter=RDCONT_value			
SIP Parameter values	INVITE: History-Info: HI-ENTRY_values			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	IAM → INVITE		
	Apply post test routine			

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

	RDCONT_value	HI-ENTRY_values	
VA_01	1	<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:>	
		<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:>	
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:></pre>	
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:>	
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1</sip:>	

TP number	TP_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	2/5	
Test Purpose name		nation Original redirection reas	
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 →	→ IN <sup>1</sup> Apply post test routine	VITE

Table 6.3.3-10: Void

TP number	TP_403_041	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 Redire	ection Information Redirecting rea	ason
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_042	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 Called party number	er 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: <b>NoA_value</b>			
	Address Signals			
SIP Parameter values	INVITE:			
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>			
		pper URI;cause=any>; index=1		
	<pre><sip:value called="" number;cause="any" of="" party="">; index=1.1.1</sip:value></pre>			
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_043	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	2/5		
Test Purpose name	Mapping of Original called nu	mber Address Signals		
Test Purpose		AM containing an Original calle		
		neter, an INVITE request is ser		
		hi-targeted-to-uri Value of Orig		
		ed 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 < <b>Digits</b> >			
SIP Parameter values	INVITE:			
		of Original called number>; ir		
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ INV	'ITE	
	Apply post test routine			

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

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

TP number	TP_403_044	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	5		
Test Purpose name	Mapping of Original called num	ber Address presentation re	stricted indicator	
Test Purpose	Ensure that on receipt of an IA			
	INVITE request is sent and a H			
	the first hi-targeted-to-uri and the			
	restricted indicator of the Origin	nal called number as indicate	ed 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 prop<="" th=""><th>oer URI?Privacy=<b>PRIV_val</b>ı</th><th>e&gt;; index=1,</th></sip:any>	oer URI?Privacy= <b>PRIV_val</b> ı	e>; index=1,	
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b> IN	IVITE	
	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_045	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 head	der field entry mapped into Re	directing number Nature of		
	address indicator				
Test Purpose	Ensure that on receipt of an IN				
	sent and a Redirecting number				
	parameter is present. The Nati				
	mapped from the hi-targeted-to		ntry containing a cause-param		
	URI parameter as indicated in	table 6.3.3-15.			
ISUP Parameter values	IAM: Redirecting number				
	Nature of address indicator= <b>NoA_value</b>				
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:second< th=""><th>last entry URI;cause=any&gt;; i</th><th>ndex=1.1,</th></sip:second<>	last entry URI;cause=any>; i	ndex=1.1,		
	<sip:any prop<="" th=""><th>per URI;cause=any&gt;; index=1.</th><th>1.1</th></sip:any>	per URI;cause=any>; index=1.	1.1		
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 403 046	Refere	nce	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 His signal	story-Info header field	entry is mapped into	Redirecting number Address
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 +'CC+NDC+SN' 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> <b>←</b> Appl	MGCF  → y 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
	'+CC' is removed from the userpart digit string used in the Redirecting number Address signal
	'+' is removed from the userpart digit string used in the Redirecting number Address signal

TP number	TP_403_047	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 head number Address presentation		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 INVITE → 100 Trying ←		ISUP IAM	
	Apply post test routine			

TP number	TP_403_048	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	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Privacy header is mapped into indicator	Redirecting number Address p	presentation restricted	
Test Purpose	Ensure that on receipt of an 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 Privacy header of the received INVITE request as indicated in table 6.3.3-17.			
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="">; ir <sip:any proper="" th="" uri;cat<=""><th>•</th><th></th></sip:any></sip:any>	•		
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 403 049	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 6.3.2/5		
Test Purpose name	Escaped Privacy heade	Escaped Privacy header is mapped into Redirection information 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 indicator=RDIND_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?Privacy=PRIV_value">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test re	ISUP → IAM	

TP number	TP 403 050	Reference	7.5.4.3
Ti Tidilibei	11 _400_000	Kererenee	Table 7.5.4.3.3
T00 (	11 40 00 (ODI) //		Table 7.5.4.5.5
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	Privacy header is mapped into	Redirection information Redi	recting 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 indicator=RDIND value		
SIP Parameter values	INVITE:		
	Privacy: PRIV_value		
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>		
		- · · · · · · · · · · · · · · · · · · ·	
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE ->	<b>→</b>	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_051	Reference	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 AND PICS 6.3.2	/5		
Test Purpose name	'cause' parameter is mapped	'cause' parameter is mapped into Redirection information Redirecting 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	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	<del>-</del>	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_052	Reference	7.5.4.3
T00 (	W40 00 (0D)) //		Table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Hi-index is mapped into Redirection information 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 value	100	
Comments	HISTORY-IIIIO. ENTRY_VAID	162	
	Mar MOOF ISUD		
Message flows	<b>.</b>		ISUP
	INVITE -	·	IAM
	100 Trying ←	•	
	Apply post test routine		

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

	ENTRY_values	RDCONT_value
VA_01	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	1
	<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>	
	<sip:represents called="" number;cause="any" party="" the="">; index=1.1.1</sip:represents>	
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>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1.1</sip:represents></pre>	
VA_05	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	5
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<sip:any proper="" uri;cause="any">; index=1.1.1,</sip:any>	
	<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_053	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 e	ntry is mapped into Original ca	lled number Nature of
	address indicator		
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting number		
	parameter is present. The Natu		
	from the first History-Info head	er field entry in the format <b>+'CC</b>	C+NDC+SN' as indicated in
	table 6.3.3-21.		
ISUP Parameter values	IAM: Original called number		
	Numbering Plan Indicator=ISDN (Telephony) numbering plan		
	(Recommendation E.164 [i.1])		
	Nature of address in	dicator= <b>NoA_value</b>	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" uri="">; index=1,</sip:first>		
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>		
Comments			
Message flows	Mg MGCF ISUP		
	INVITE →	<b>→</b>	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 403 054	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	d entry is mapped into Origi	nal called 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 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 6.3.3-22.		
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="">; index=1,     <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:first>		
Comments			
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test routi	ISUP → IAM ne

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

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

TP number	TP 403 055	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 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 presenta	tion restricted indicator= <b>AP</b>	PRI_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		MGCF → ←	→ IAM	
	Apply post test routine			

TP number	TP_403_056	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="">; index=1,  <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:first>		
Comments			
Message flows	Mg INVITE → 100 Trying ←	MGCF →	ISUP IAM
	Apply post test routine		

Table 6.3.3-23: Mapping of Privacy header into Redirecting number Address presentation restricted indicator

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

TP number	TP_403_057	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 Redirection n	umber into 181 (Being forward	led) History-Info header		
Test Purpose	present as an indication a call	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 Redirection number is may containing one hi-entry in the s				
ISUP Parameter values	ACM: Backward call indicator				
		Called party statue='no indication'			
	Generic notification=call is diverting				
	Call diversion information				
	Redirection number				
	Nature of address indicator=NOA_value				
	Address signal <b>Digits</b>				
SIP Parameter values	181:				
	History-Info: sip: LAST_H	IST_URI;cause=any>; index=1	1		
Comments					
Message flows	Mg	MGCF	ISUP		
	NVITE → → IAM				
	181 Being forwarded ←	<b>←</b>	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_058	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 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 → IAM			
	181 Being forwarded	<del>-</del>	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 403 059	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		
Test Purpose name	Mapping of ACM Notification s	subscription options no 181 (Be	ing forwarded) is sent	
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, if the Call diversion information Notification subscription options is set to <b>presentation not allowed</b> no 181 (Being forwarded) is sent.			
ISUP Parameter values	ACM:  Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=presentation not allowed			
SIP Parameter values				
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	181 Being forwarded ← ← ACM			
	Apply post test routine			

TP number	TP_403_060	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 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 → 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_061	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 6.3.2/5			
Test Purpose name	Mapping of CPG Redire	ection number into 181 (Be	ng forwarded) History-Info header		
Test Purpose	number and the Call divoccurred, a 181 (Being	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	<b>→</b>	→ IAM		
	180 Ringing	180 Ringing ← ← ACM			
	181 Being forwarded ← CPG				
	Apply post test routine				

TP number	TP_403_062	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 parameter	reason into 181 (Being forward	led) History-Info header cause
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>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	CPG: Event=Progress Generic notification=c Redirection number Call diversion informa Redirecting reason	tion	
SIP Parameter values	181: History-Info:	direction number in ACM;cause	=Cause_value>; index=1
Comments			
Message flows	180 Ringing	MGCF  →  ←  Apply post test routine	ISUP IAM ACM CPG

TP number	TP_403_063	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	S 6.3.2/5			
Test Purpose name	Mapping of CPG Notific forwarded) is sent	cation subscription options	presentation not allowed no 181 (Being		
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, if the Call diversion information Notification subscription options is set to presentation not allowed no 181 (Being forwarded) is sent.				
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=presentation not allowed				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE 180 Ringing	→ ←	→ IAM ← ACM ← CPG		
	Apply post test routine				

TP number	TP_403_064	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			
T	Privacy header	0.11				
Test Purpose	Ensure that on receipt of a CP					
	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	.3-26.			
ISUP Parameter values	CPG: Event=Progress					
	Generic notification=cal	l is diverting				
	Redirection number					
	Call diversion information					
		tion 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>PRIV_value &gt;; index=1</th></sip:any>	oer URI;cause=any?Privacy= <b>P</b>	PRIV_value >; index=1			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	180 Ringing ←	<b>←</b>	ACM			
	181 Being forwarded ←	<b>←</b>	CPG			
	Apply post test routine					

TP number	TP_403_065	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 a CPG Alerting Red	direction number into 180 (Ring	ging) History-Info header		
	Redirecting reason is mapped	into the cause parameter			
Test Purpose	Ensure that on receipt of a CPC				
	is present, a 180 (Ringing) is se				
	mapped into the hi-targeted-to-				
	indicated in table 6.3.3-24 and		mapped from a previous		
	received Redirecting reason as				
ISUP Parameter values	<b>ACM:</b> Call diversion information	on			
	Redirecting reason =	=REAS_value			
	Redirection number				
	<b>CPG:</b> Event indicator=Alerting				
	Redirection number				
		dicator=NOA_value			
	Address signal <b>Digits</b>				
SIP Parameter values	180:				
	History-Info:				
	<sip:derived from="" red<="" th=""><th>irection number in CPG;caus</th><th>e=Cause_value&gt;; index=1</th></sip:derived>	irection number in CPG;caus	e=Cause_value>; index=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 403 066	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 Redirecti	on Number Restriction into 180	) (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	ndication					
	Generic notification=call is	diverting					
	Call diversion information						
	Redirection number						
	CPG: Event indicator=Alerting						
		Redirection Number Restriction=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	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_067	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 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 A	NM a Redirection number is pr	resent, a 200 OK (INVITE) is		
	sent. The Redirection number				
	hi-targeted-to-uri in a History-I				
	and the cause parameter value	ue 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=ca				
	Call diversion information				
	Redirecting reason Redirection number	=REA5_value			
	ANM:				
	Redirection number				
	Nature of address indicator= <b>NOA value</b>				
	Address signal <b>Dig</b> i	<u>—</u>			
SIP Parameter values	200 OK:				
		n@unknown.invalid>; index=1			
		HIST_URI;cause=Cause_valu			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	181 Being forwarded €	· <b>←</b>	ACM		
	180 Ringing €	• •	CPG		
	200 OK INVITE	· <b>←</b>	ANM		
	ACK -	•			
		Apply post test routine			

TP number	TP_403_068	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 ANM Redirect	ion Number Restriction in	o 200 OK INVITE Privacy header	•		
Test Purpose			nber Restriction parameter is pres	sent		
	as an indication a call dive	ersion occurred, a 200 OK	INVITE is sent. The Redirection			
			the Privacy header in the sent 20	00 OK		
	INVITE as indicated in tab	le 6.3.3-27.				
ISUP Parameter values	<b>ACM:</b> Generic notification	<u> </u>				
	Call diversion infor					
	Redirection number					
	ANM: Event indicator=Ale					
		er Restriction=PRES_rest				
SIP Parameter values	200 OK INVITE:					
	Privacy= <b>PRIV_value</b>	Privacy= <b>PRIV_value</b>				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	181 Being forwarded	<b>←</b>	← ACM			
	180 Ringing ← ← CPG					
	200 OK INVITE ← ANM					
	ACK →					
		Apply post test routine				

## 6.3.4 Conference call (CONF)

TP number	TP_404_001	Refer	ence		7.5.6.2	
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/20 AN	D PICS 6.3.9/1			
Test Purpose name	'isfocus' parameter a	nd conference U	RI in Contact he	eader in	ACK recei	ived, a SUBSCRIBE
	is sent					
Test Purpose	Ensure that on receip					
	containing the confer					
	after the ACK was re					
	header in the ACK, th					
	P-Asserted-Identity is					
	the 200 OK INVITE the	ne Privacy head	er is sent as in t	he 180 l	Ringing or	200 OK INVITE.
ISUP Parameter values						
SIP Parameter values	INVITE: Contact: <					
	SUBSCRIBE: Reque					
		RI equal to the				
	P-Asse	erted-Identity: <	JRI equal to the	value ii	n the 180 c	or 200>
Comments			14005			IOLID
Message flows	Mg	_	MGCF	_		ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<del>(</del>		_		
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
		_		_		
	200 OK (INVITE)	<b>←</b>		+	ANM	
	ACK	<b>→</b>				
	CLIDOODIDE	•				
	SUBSCRIBE	<del>(</del>				
	202 Accepted	<b>→</b>				
		App	ly post test ro	utine		

TP number	TP_404_002	IR	eference	7.5.6.2			
TSS reference	PSTN-SS/CONF/	1					
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1					
Test Purpose name	'isfocus' parameter SUBSCRIBE is ser		e URI in Contact head	der 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	SUBSCRIBE: From	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	ISUP		MGCF	Mg			
	IAM	<b>→</b>	<b>→</b>	INVITE 100 Trying			
	ACM	<b>←</b>	<b>←</b>	180 Ringing			
	ANM ← 200 OK (INVITE) → ACK						
			<b>→</b> ←	SUBSCRIBE 202 Accepted			
			Apply post test routi	ne			

TP number	TP_404_003	Reference	е	7.5.6.3			
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	Interworking of notifica	tion of 'Conference	e established' at the	I-MGCF			
Test Purpose				contact header contains the			
				at on receipt of a NOTIFY			
				ML conference-info instance is			
				an ISUP CPG message is set			
	and the Generic notific	•	set to 'Conference	e established'.			
ISUP Parameter values	CPG: Generic notifica						
	Conference						
SIP Parameter values		onference URI>; is	focus				
	NOTIFY: Subscription						
	Event: confe						
	Content-Type xml version</p	e: application/con	erence-into+xmi				
	conference-						
	conference-						
		e>true<					
Comments	activi	67tiu6<					
Message flows	Mg		MGCF	ISUP			
	INVITE	<b>→</b>	•	IAM			
	100 Trying	<del>-</del>	_				
	180 Ringing	<del>-</del>	<b>←</b>	ACM			
	1.55						
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM			
	ACK	<b>→</b>					
	SUBSCRIBE	<del>-</del>					
	202 Accepted	<b>→</b>					
	·						
	NOTIFY	<b>→</b>	<b>→</b>	CPG			
	200 OK (NOTIFY)	<b>←</b>					
	, ,	Apply p	ost test routine				
•	•						

TP number	TP_404_004	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 notifica	ation of 'Conference establi	shed' a	at the O-MGCF	
Test Purpose	Ensure that on receipt of a 200 OK INVITE response and the Contact header contains the <b>isfocus</b> 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 sent and the Generic notification parameter is set to ' <b>Conference established</b> '.				
ISUP Parameter values	CPG: Generic notifica				
SIP Parameter values		e established			
	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	. 1: 0 6: 11			
Comments				e is originated by the conference	
Manager flows	ISUP	lialogue have to terminated		Mer	
Message flows	IAM ACM	MGCF →	<b>→ ←</b>	Mg INVITE 100 Trying 180 Ringing	
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK	
	CPG	<b>←</b>	<b>+</b> + + +	SUBSCRIBE 202 Accepted NOTIFY 200 OK (NOTIFY) BYE	
		Apply post tes	→ t routi	200 OK (BYE) ne	

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.	2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of notification of	other party added' at the I-MG	SCF			
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>connected</b> , an ISUP CPG message is sent the Generic notification indicator is set to 'other party added'.					
ISUP Parameter values	<b>CPG:</b> Generic notification					
	other party added					
SIP Parameter values	xml version="1.<br conference-info users user endpoi	e: active e olication/conference-info+xml				
Comments						
Message flows	Mg MGCF ISUP					
	Session is established and joined in a conference					
		<b>→</b> →	CPG			
	200 OK (NOTIFY)	<b>←</b>				
		Apply post test routine				

TP number	TP_404_006	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 added' at the 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 pa	tification arty added		
SIP Parameter values	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>" status&gt;connected&lt;</isup>			
Comments				
Message flows	ISUP	MGCF	Mg	
	Session is established and joined in a conference			
	CPG	<u>-</u>	← NOTIFY	
		•	→ 200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_404_007	Refer	ence	7.5.6.3
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/20 ANI	D PICS 6.3.9/1	
Test Purpose name	Interworking of notifica	ation of 'isolated	I' 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 contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>on-hold</b> , an ISUP CPG message is sent the Generic notification indicator is set to 'isolated'.			
ISUP Parameter values	CPG: Generic notifica	ation		
OID D	Isolated			
SIP Parameter values  Comments	NOTIFY: To: <isup address=""></isup>			
• • • • • • • • • • • • • • • • • • • •	84.00		MGCF	ISUP
Message flows	Session is established and joined in a conference CASE A			
	200 OK (NOTIFY)	<b>→</b> ←	<b>→</b>	CPG
	NOTIFY 200 OK (NOTIFY)	<b>→</b> ←	<b>→</b>	CPG
	INVITE(sendonly) 200 OK (INVITE) ACK	→ ← →		
		App	ly 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 C	D-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 contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>on-hold</b> , an ISUP CPG message is sent the Generic notification indicator is set to ' <b>isolated</b> '.					
ISUP Parameter values		CPG: Generic notification				
	isolated					
SIP Parameter values	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;on-hold&lt;</isup>					
Comments						
Message flows	ISUP	MGCF		Mg		
		Session is established ar	nd joined	in a conference		
	CASE A					
	CPG	<b>←</b>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
	CASE B					
	CPG	<b>←</b>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
			<b>←</b>	INVITE(sendonly)		
			→	200 OK (INVITE)		
			<b>←</b>	ACK		
	Apply post test routine					

TP number	TP 404 009	Reference	7.5.6.3	
TSS reference	PSTN-SS/CONF/	1	1	
Selection criteria		ICS 6.3.2/20 AND PICS 6.3.9	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 notification			
	other party isolated			
SIP Parameter values	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>" status&gt;on-hold&lt;</isup>			
Comments				
Message flows	Mg Session NOTIFY 200 OK (NOTIFY)	MGCF n is established and other p → ← Apply post test	ISUP party joined in a conference → CPG	

TP number	TP_404_0	10	Reference	7.5.6.3	
TSS reference	PSTN-SS/	CONF/			
Selection criteria	PICS 6.3.	I/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				ipt of an adequate NOTIFY request	
				quest and the 'entity' attribute of the	
				as received in the To header and the	
				on-hold, an ISUP CPG message is	
	_		dicator is set to 'other pa	arty 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 isuf<="" of="" th="" uri=""><th>P&gt;"</th></not>	P>"	
		status	s>on-hold<		
Comments					
Message flows	19	SUP	MGCF	Mg	
	Session is established and other party joined in a conference				
	CPG	<b>←</b>	<b>+</b>	NOTIFY	
			<b>→</b>	200 OK (NOTIFY)	
			Apply post test rout	` ,	

TP number	TP_404_011	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/	Reference	7.5.6.5			
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		of an adaquata NOTICY request			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request					
	and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header					
	and the 'status' sub element of the 'endpoint' element is set to <b>connected</b> , an ISUP CPG					
	message is sent the Generic					
ISUP Parameter values	CPG: Generic notification	notification indicator is set to	Teattacheu.			
150P Parameter values	reattached					
SIP Parameter values	NOTIFY: To: <isup addres<="" th=""><th>C&gt;</th><th></th></isup>	C>				
oir ratailleter values	Subscription-State					
	Event: conference					
		olication/conference-info+xm	I			
	xml version="1.</th <th></th> <th>I</th>		I			
	conference-info	0				
	users					
	user					
	endpoint entity=" <uri isup="" of="">"</uri>					
	status>connected<					
Comments						
Message flows	Mg	MGCF	ISUP			
	Session is es	tablished joined in a confe	rence and isolated			
	CASE A	-				
	NOTIFY	→	→ CPG			
	200 OK (NOTIFY)	<b>←</b>				
	,					
	CASE B					
	NOTIFY	<b>→</b>	→ CPG			
	200 OK (NOTIFY)					
	,					
	INVITE(sendrecv)	<b>→</b>				
		<del>-</del>				
		<b>→</b>				
		Apply post test routing	e			
L	_1		-			

TP number	TP_404_012	Reference		7.5.6.3		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND I	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of noti	fication of 'reattached' at the	e O-MGC	CF		
Test Purpose	and isolated at the attribute of the 'end and the 'status' sub message is sent the	An established conference is already indicated by receipt of an adequate NOTIFY request and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>connected</b> , an ISUP CPG message is sent the Generic notification indicator is set to 'reattached'.				
ISUP Parameter values	CPG: Generic noti					
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	ISUP	MGCF		Mg		
	CASE A	sion is established joined	in a con	ference and isolated		
	CASE A CPG	<b>←</b>	<b>←</b> →	NOTIFY 200 OK (NOTIFY)		
	CASE B  CPG ← NOTIFY  → 200 OK (NOTIFY)					
		Ample	<b>←</b> <b>→</b>	INVITE(sendrecv) 200 OK (INVITE) ACK		
		Apply post t	est rout	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 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				
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 Session is estab NOTIFY 200 OK (NOTIFY)	<b>→</b> ←	→ CPG			
	PICS 6.3.1/2 AND PIC Interworking of notifica An established confer and another party is is and the 'entity' attribur received in the To head connected, an ISUP 'other party reattach' CPG: Generic notifical other party NOTIFY: To: <isup conference="" established.<="" event:="" is="" mg="" session="" subscription="" th="" user="" 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 reattached' 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 eler connected, an ISUP CPG message is sent the G'other party reattached'.  CPG: Generic notification other party reattached  NOTIFY: To: <isup address=""></isup></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 reattached' 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 eler connected, an ISUP CPG message is sent the G'other party reattached'.  CPG: Generic notification other party reattached  NOTIFY: To: <isup address=""></isup>			

TP number	TP_404_014	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 notific	ation of 'other party reattached	d' at the O-MGCF		
Test Purpose			eceipt of an adequate NOTIFY request		
			e that on receipt of a NOTIFY request		
			es not contain the ISUP address as		
			ent of the 'endpoint' element is set to		
			neric notification indicator is set to		
	other party reattach				
ISUP Parameter values	CPG: Generic notific				
		reattached			
SIP Parameter values	NOTIFY: To: <isup address=""></isup>				
		on-State: active			
	Event: conference				
	Content-Type: application/conference-info+xml				
	xml version="1.0"</th				
	conference-info				
	users				
	user				
	(	endpoint entity=" <not is<="" of="" th="" uri=""><th>SUP&gt;"</th></not>	SUP>"		
	status>connected<				
Comments					
Message flows	ISUP	MGCF	Mg		
	Session is estab	olished joined in a conferenc	e and another party was isolated		
	CPG	<b>←</b>	← NOTIFY		
			→ 200 OK (NOTIFY)		
		Apply post test re	outine		

TP number	TP 404 015	Reference	7.5.6.3		
TSS reference	PSTN-SS/CONF/	1.010.01.00	11.0.0.0		
Selection criteria		PICS 6.3.2/20 AND PICS 6.3.	9/1		
Test Purpose name					
Test Purpose	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 'disconnected', an ISUP CPG message is sent the Generic notification indicator is set to 'other party disconnected'.				
ISUP Parameter values	CPG: Generic noti	fication	. ,		
	other par	rty disconnected			
SIP Parameter values	Event: content- Content- xml ve<br conferen users	tion-State: active onference Type: application/conference- ersion="1.0" ce-info	f ISUP>" n<		
Comments		Maar	IOLID		
Message flows	Mg NOTIFY 200 OK (NOTIFY)	MGCF Session is established and j → ← Apply post tes	→ CPG		

TP number	TP_404_016	Ref	erence	7.5.6.3		
TSS reference	PSTN-SS/CONI	F/				
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					
		at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the				
				s received in the To header and the		
				sconnected, an ISUP CPG		
			ation indicator is set	to 'other party disconnected'.		
ISUP Parameter values	CPG: Generic	notification				
		party disconnected				
SIP Parameter values	NOTIFY: To: <	ISUP address>				
		cription-State: active	е			
		t: conference				
			n/conference-info+xr	nl		
		nl version="1.0"				
	conference-info					
	users					
	user					
	endpoint entity=" <not isup="" of="" uri="">"</not>					
		status>dis	connected<			
		or				
		joining-me	thod>dialled-out<			
Comments						
Message flows	ISUP		MGCF	Mg		
			blished and joined			
	CPG	<del>(</del>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
		Aj	pply 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 IDF	R is sent				
Test Purpose	Ensure that on receipt of an IN		mcid' XML element and the			
-	'McidRequestIndicator' subelen	nent is set to XML_McidF	Req, an ISUP IDR message is sent			
	and the MCID request indicator	s is set to MCID_req as i	ndicated in table 6.3.6-1.			
ISUP Parameter values	IDR: MCID request indicators	•				
	MCID_req					
SIP Parameter values	INFO:					
	xml version="1.0"</th <th></th> <th></th>					
	mcid					
	request>					
	McidRequestIndicate	or>XML_McidReq </th <th></th>				
	HoldingIndicator>1 </th					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	180 Ringing			
	IDR <b>←</b>	<b>←</b>	INFO			
		<b>→</b>	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/	II.		1
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			ining a MCIE	response indicator set to
-	MCID_rsp, an INFO is se			
	The McidResponseIndica	ator is set to XML_Mcic	<b>IRsp</b> as indic	cated in table 6.3.6-2.
ISUP Parameter values	IRS: MCID response in	ndicator		
	MCID_rsp			
SIP Parameter values	INFO:			
	xml version="1.0"</th <th></th> <th></th> <th></th>			
	mcid			
	response>			
_	McidResponse	eIndicator> <b>XML_Mcid</b> R	Rsp </th <th></th>	
Comments				
Message flows	ISUP	MGCF		Mg
	IAM	<b>→</b>	→ INV	ITE
	ACM	<b>←</b>	<b>←</b> 180	Ringing
	IDR		← INF	O
			<b>→</b> 200	OK INFO
	IRS	<b>→</b>	→ INF	·O
				OK INFO
	Apply post test routine			

Table 6.3.6-2: Mapping of ISUP MCID response indicator into XML McidResponseIndicator

	MCID_rsp	XML_McidRsp
VA_01	MCID not included	0
VA 02	MCID included	1

TP number	TP_406_003	Reference	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 requ	uest is sent, a Calling party	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				
	indicated in table 6.3.6-3.	ongi artyr resemationi testi	ction is set to <b>XML_orig</b> _restr as		
ISUP Parameter values	IRS: MCID response indicator				
SIP Parameter values	Address signal INFO: xml version="1.0"</th				
	mcid response> McidResponseIndicator>1 OrigPartyIdentity derived from the Calling Party number Address signal OrigPartyPresentationRestriction XML_orig_restr </th				
Comments					
Message flows	ISUP IAM → ACM IDR	MGCF  ←  ←  →	Mg INVITE 180 Ringing INFO 200 OK INFO		
	Apply post test routine	<del></del>	200 OK INFO		
	Apply post test routille				

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	R	eference		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 name 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 call APRI_value is ma XML_gen_restr as	ing party numb pped into the X s indicated in ta	er Address Pr (ML mcid Gen	esentati	on restriction ind	licator value Restriction is set to
ISUP Parameter values		ncluded mber nal calling Party s presentation r		cator= <b>AF</b>	PRI_value	
SIP Parameter values	INFO: xml version=     mcid     response McidRe     Generio	="1.0" sponseIndicato	ed from the C		<i>number Addr</i> es gen_restr </th <th>ss signal<!--</th--></th>	ss signal </th
Comments	10115					
Message flows	ISUP IAM ACM IDR	<b>→</b> ←	MGCF	<b>→ ← → → ←</b>	INVITE 180 Ringing INFO 200 OK INFO INFO 200 OK INFO	Mg
	Apply post test ro	outine				

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/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3	3		
Test Purpose name	ISUP IDR is mapped into INFC	request		
Test Purpose	Ensure that on receipt of an IS	UP IDR containing a MCID red	quest indicators indicator set to	
	MCID_req, an INFO request is		estIndicator is included set to	
	XML_McidReq as indicated in	table 6.3.6-5.		
ISUP Parameter values	IDR: MCID request indicators	3		
	MCID_req			
SIP Parameter values	INFO:			
	xml version="1.0"</th <th></th> <th></th>			
	mcid			
	request>			
	McidRequestIndicator> <b>XML_McidReq</b> </th			
	HoldingIndicator>1<	/		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	100 Trying ←			
	INFO ←	<b>←</b>	IDR	
	200 OK INFO →			
		Apply post test routine		

Table 6.3.6-5: Mapping of ISUP MCID request indicator into XML McidRequestIndicator

	MCID_req	XML_McidReq
VA_01	MCID not requested	0
VA_02	MCID requested	1

TP number	TP_406_006	Reference	7.5.9.2.3
TSS reference	IMS-SS/MCID/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	<b>'</b> 3	
Test Purpose name	INFO request is mapped into I	SUP IRS	
Test Purpose		IFO request the XML 'mcid' Mcint. The MCID response indicate	
ISUP Parameter values	IRS: MCID response indicate	or	
	MCID_rsp		
SIP Parameter values	INFO:		
	xml version="1.0"</th <th></th> <th></th>		
	mcid		
	response> McidResponseIndic	ator>XML_McidRsp </th <th></th>	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	· -	IAM
	100 Trying ←	•	
	INFO €	• •	IDR
	200 OK INFO	•	
	INFO 200 OK INFO	•	IRS
		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 '1', 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 inc MCID included Calling Party numb Address preser			
SIP Parameter values	INFO: xml version="1.0"     mcid     response McidResponsel     OrigPartyldenti			
Comments				
Message flows	Mg INVITE 100 Trying INFO 200 OK INFO 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			XML 'mcid' Mo	cidResponseIndicator is set	to
	MCID_rsp, an ISUP IRS is				
	The XML GenericNumber				
				to the country code where th	
				(significant) number', the	
				ne XML GenericNumber UR	I
	and send in the Addre				
				ual to the country code wher	е
				national number', the '+' is	
				URI and send in the Addres	SS
	signals of the Addition				41
				gen_restr is mapped into	tne
	Address presentation rest		ki_value of the	Additional calling party	
ISUP Parameter values	number as indicated in tab				
150P Parameter values	IRS: MCID response ind MCID included	licator			
	Generic number				
	Additional calling Party number				
	Address presentation restriction indicator= <b>APRI_value</b>				
	Address signal				
SIP Parameter values	INFO:				
	xml version="1.0"</th <th></th> <th></th> <th></th> <th></th>				
	mcid				
	response>				
	McidResponsel	ndicator>1 </th <th></th> <th></th> <th></th>			
				ber Address signal </th <th></th>	
	GenericNumber	rPresentationRestri	ction>XML_ge	n_restr </th <th></th>	
Comments					
Message flows	Mg	MGC		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	100 Trying	<del>(</del>	_		
	INFO	<del>(</del>	<b>←</b>	IDR	
	200 OK INFO	<b>→</b>			
	INIEO			IDC	
	INFO	<b>→</b> ←	<b>→</b>	IRS	
	200 OK INFO	=	toot voutin-		
	Apply post test routine				

Table 6.3.6-8: Mapping of XML GenericNumberPresentationRestriction into ISUP Additional calling party number APRI

	XML_gen_restr	APRI_value
VA_01	true	Presentation restricted
VA 02	false	Presentation allowed

#### 6.3.7 Closed User Group (CUG)

TP number	TP_407_001	Reference	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	sergroup 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 indicator			
	Closed user group call indicator			
	Closed user group inte			
		napped from XML networkIndi		
		ed from XML cugInterlockBina	ryCode	
SIP Parameter values	INVITE:			
	Content-Type: application/vnd	.etsi.cug+xml		
	xml version="1.0"</th			
	cug			
	networkIndicator=any proper value			
		kBinaryCode=any proper va	lue	
	cugCommur	nicationIndicator		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	=	IAM	
	100 Trying <b>←</b>			
		Apply post test routine		

TP number	TP_407_002	Reference	7.5.10.1
	11 _ 101 _ 002	1101010100	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 PIC	CS 6.3.2/23	
Test Purpose name		ML CUG Element to the ISUP of	closed user group call indicator
Test Purpose	Ensure that on receipt application/vnd.etsi.cu	of an INVITE request containi g+xml and the 'cug' XML body	ng the Content-Type , an IAM is sent. The XML
		dicator' is mapped into the ISU I indicator as indicated in table	P Optional forward call indicator 6.3.7-1.
ISUP Parameter values	Closed user gro Network Ide Binary code	r group call indicator= <b>CUG_in</b> coup interlock code entity	d
SIP Parameter values	cugl		_COM_ind
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE 100 Trying	<b>→</b>	→ IAM
	Too Trying	Apply post test ro	outine

## 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	
			Table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/2			
Test Purpose name	Communication is release outgoing access	sed if the PSTN/ISDN network	k does not support CUG, CUG without	
Test Purpose	application/vnd.etsi.cug-	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		
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	MGCF  →  ←  →  Apply post test rou		

TP number	TP 407 004	Reference	7.5.10.1	
			Table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/		14510 7.0.10.1.1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/2			
Test Purpose name	Communication is treated as an	ordinary call if the PSTN/ISD	N network does not support	
	CUG, CUG with outgoing acces			
Test Purpose	Ensure that on receipt of an IN	VITE request containing the Co	ontent-Type	
	application/vnd.etsi.cug+xml ar	nd the 'cug' XML body the cug(	CommunicationIndicator set to	
	'10', the communication is treat	ed as an ordinary call if the PS	STN/ISDN network does not	
	support CUG. A Closed user gr	oup interlock code is not pres	ent 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			
	cugCommunicationIndicator='10'			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	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 6.3.2/23 AND PICS 6.3.10/2		
Test Purpose name	Communication is treated as an CUG, Non-CUG call	n ordinary call if the PSTN/ISD	N network does not support
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '00', the communication is treated as an ordinary call if the PSTN/ISDN network does not support CUG. A Closed user group interlock code is not present in the sent IAM.		
ISUP Parameter values			
SIP Parameter values	INVITE: Content-Type: application/vnd.com xml version="1.0" cug networkIndication cugInterlockE</th <th>ator</th> <th></th>	ator	
Comments			
Message flows	Mg INVITE → 100 Trying ←	MGCF	ISUP IAM
	Apply post test routine		

TP number	TP 407 006	Reference	7.5.10.2		
1101111001	11 _ 101 _ 000		Table 7.5.10.2.2		
TSS reference	IMS-SS/CUG/	1			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	23			
Test Purpose name	Mapping of the ISUP closed us	sergroup interloccode to SIP X	ML CUG element		
Test Purpose	Ensure that on receipt of an IA				
	present, an INVITE request is				
	networkIndicator element, the	Binary code is mapped into the	e XML		
IOUD Developed	cugInterlockBinaryCode.				
ISUP Parameter values	IAM:	diantar	ļ		
	Optional forward call inc				
	Closed user group of				
	Closed user group interlock code				
	Network Identity=any proper value				
	Binary code=any proper value				
SIP Parameter values	INVITE:				
	Content-Type: application/vnd.etsi.cug+xml				
	xml version="1.0"</th				
	cug				
	networkIndi	cator= mapped from Network	k Identity		
	cuginterioci	kBinaryCode= mapped from I	Binary code		
	cugCommunicationIndicator				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
		<b>+</b>	100 Trying		
	Apply post test routine				

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 6.3.2/2	PICS 6.3.1/2 AND PICS 6.3.2/23		
Test Purpose name		Mapping of the ISUP closed usergroup call indicator 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. xml version="1.0" cug networkIndic</th <th>ator</th> <th>nd</th>	ator	nd	
Comments	- Jagosiiii a			
Message flows	ISUP IAM →	MGCF  Apply pact test routing	Mg INVITE 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 6.3.2/2	23 AND PICS 6.3.10/1			
Test Purpose name	Communication is released if the	ne IMS network does not suppo	ort CUG, CUG without		
	outgoing access				
Test Purpose	Ensure that on receipt of an IA				
	call indicator is set to closed us	ser group call, outgoing access	not allowed and the IMS		
	network does not support the C	CUG supplementary service, a	REL is sent and the Cause		
	value is set to #29 Facility reject	cted the diagnostics indicating	CUG without access.		
ISUP Parameter values	IAM:				
	Optional forward call inc	dicator			
	Closed user group of	all indicator=C UG call, outgoir	ng access not allowed		
	Closed user group inter	lock code			
	Network Identity				
	Binary code				
	REL:				
	Cause indicator				
	Cause value=29				
	Diagnostics=3				
SIP Parameter values					
Comments					
Message flows	ISUP MGCF Mg				
	IAM →				
	REL <b>←</b>				
	RLC →				
		Apply post test routine			

TP number	TP_407_009	Reference	7.5.10.2,	
			1.5.2.4.2/Q.735.1	
TSS reference	IMS-SS/CUG/	IMS-SS/CUG/		
Selection criteria	PICS 6.3.1/2 AND PI	PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/1		
Test Purpose name	Communication is tre	•	IMS network does not support CUG,	
Test Purpose	call indicator is set to	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 allowed and the IMS network does not support the CUG supplementary service, the communication is treated as an		
ISUP Parameter values	Closed us		call, outgoing access allowed	
SIP Parameter values	,			
Comments				
Message flows	ISUP	MGCF	Mg	
	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,		
			Table 7.5.11.1.1		
TSS reference	IMS-SS/CC/	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6	PICS 6.3.1/2 AND PICS 6.3.2/24			
Test Purpose name	Mapping of CCNR possibl	e indication 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 ind CCNR possible	icator			
SIP Parameter values	180: Call-Info: <sip:calle< th=""><th>ed party number digits&gt;;p</th><th>urpose=call-completion;m=NR</th></sip:calle<>	ed party number digits>;p	urpose=call-completion;m=NR		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	180 Ringing ← ← ACM				
	Apply post test routine				

TP number	TP 408 002	Reference	7.5.11.1,			
	11 _400_002	T C C C C C C C C C C C C C C C C C C C	Table 7.5.11.1.1			
TSS reference	IMC CC/CC/		Table 1.5.11.1.1			
	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/24					
Test Purpose name	Mapping of CCNR possible ind	ication in the CPG				
Test Purpose	Ensure that on receipt of a CPC	3 Event indicator set to 'Alertin	g' and a CCNR possible			
	indicator is present set to 'CCN	R possible' a 180 Ringing is se	ent. A Call-Info header is			
	present, the URI is derived from	n the Called party number, the	purpose parameter is set to			
	call-completion, the m parame					
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		rty number digits>;purpose=ca	all-completion:m-NP			
Comments	100. Call-IIIIo. Csip.Called pa	ity flamber digits/,purpose=ca	an-completion,m=rare			
	Ma	MGCF	ISUP			
Message flows	9					
	INVITE	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	cation in the REL			
Test Purpose	Ensure that on receipt of an RE	L message Cause #17 and a	CCBS possible indicator in		
	the Diagnostic field is set to 'CO				
	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 'BS'.			
ISUP Parameter values	IAM: Called party number				
	Number digits				
	REL: Cause indicator				
	Cause = 17				
	Diagnostic				
	CCBS possible				
SIP Parameter values	486: Call-Info: <sip:called pa<="" th=""><th>rty number digits&gt;;purpose=c</th><th>all-completion;m=BS</th></sip:called>	rty number digits>;purpose=c	all-completion;m=BS		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	486 Busy here ←	<b>←</b>	REL		
	ACK →	<b>←</b>	RLC		
		Apply post test routine			

TP number	TP_408_004	R	eference		7.5.11.1	,
					Table 7.	5.11.1.1
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AN	ND PICS 6.3.2/24				
Test Purpose name	Mapping of m p	arameter in the IN	IVITE request URI ir	nto CCS	S parame	eter in the IAM
Test Purpose			TE request and a m			
	is sent and the	CCSS call indicate	or parameter is pres	ent and	the value	is set to 'CCSS call'.
ISUP Parameter values	IAM: CCSS ca	all indicator				
	CCS	S call				
SIP Parameter values	INVITE: <red< th=""><th>juest URI&gt;;m=NR</th><th>or ;m=BS</th><th></th><th></th><th></th></red<>	juest URI>;m=NR	or ;m=BS			
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
			Apply post test rou	ıtine		

TP number	TP 408 005	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 Call-Info header in	n the INVITE into CCSS parame	eter in the IAM
Test Purpose		NVITE request and a Call-Info h	
		letion' and the m parameter set	
	and the CCSS call indicator p	arameter is present and the val	ue is set to 'CCSS call'.
ISUP Parameter values	IAM: CCSS call indicator		
	CCSS call		
SIP Parameter values	INVITE: <request uri=""></request>		
	Call-Info: <sip:call< th=""><th>ed party number digits&gt;;purpose</th><th>e=call-completion; m=BS or</th></sip:call<>	ed party number digits>;purpose	e=call-completion; m=BS or
	NR		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	<b>→</b>	IAM
	100 Trying	<del>(</del>	
		Apply post test routine	

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 6.3.2/2	24				
Test Purpose name	Invocation of CCBS in the I-MG	GCF m parameter in Start line				
Test Purpose	Ensure that on receipt of a SUE	SSCRIBE request the Request	URI contains the m			
	parameter set to 'BS' and Even					
	UDT or XUDT is sent containin					
	REQUEST invoke CalledPartyl					
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to			
	'TRUE'.					
TCAP Parameter values	TC Begin					
	CCBS REQUEST invoke	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,		
i P number	TP_406_007	Reference			
			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	GCF m parameter in Call-Info I	header		
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 'BS', a SCC				
	invoke Data field. The TC-Begi	n REQUEST invoke CalledPa	rtyNumber is derived from the		
	To header, the CallingPartyNur				
	RetainSupported is set to 'TRU				
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: <requesr uri=""></requesr>				
	Event: call-comp	letion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
Comments	Sammer digner, purpose-sam completion, m-se				
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,			
			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 m parameter in Start line				
Test Purpose	Ensure that on receipt of a SUE					
	parameter set to 'NR' and Ever					
	UDT or XUDT is sent containin					
	REQUEST invoke CalledPartyl					
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to			
	'TRUE'.					
TCAP Parameter values	TC Begin	TC Begin				
	CCNR REQUEST invoke	CCNR 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 408 009	Reference	7.5.11.1,			
i P number	17_406_009	Reference				
			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 m parameter in Call-Info	header			
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	P UDT or XUDT is sent conta	aining a TC-Begin REQUEST			
	invoke Data field. The TC-Begi					
	To header, the CallingPartyNur					
	RetainSupported is set to 'TRU					
TCAP Parameter values	TC Begin					
	CCNR REQUEST invoke					
	CalledPartyNumber derived from the <b>To</b> header					
		CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header				
	RetainSupported		, <b>,</b>			
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri=""></request>					
on randings, values	Event: call-comp	letion				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>					
Comments	Call-Illio. Csip. Calling party humber digits >, purpose=call-completion, m=nnc					
Message flows	Mg	MGCF	SCCP			
Wessage nows	_	₩GC1				
		7	(X)UDT (TC-Begin)			
	202 Accepted					
		Apply post test routine				

TP number	TP_408_010	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 paramete	er in the Request line and PIDF	basic status "closed" is		
	interworked into CCBS SUSPE	ND			
Test Purpose	Ensure that on receipt of a PUE				
	line is set to 'BS' the Event hea				
	MIME body is present the present		CCP UDT or XUDT is sent		
	containing a TC-Cont CCBS SI	JSPEND Data field.			
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"</th <th>encoding="UTF-8"?&gt;</th> <th></th>	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 CCBS request and remote user is now free				
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)		
	200 OK (PUBLISH) ←				
		Apply post test routine			

<u></u>	I		T		
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 paramete	r in Call-Info header and PIDF	basic status "closed" is		
	interworked into CCBS SUSPE	ND			
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value		
	'presence' and a Call-Info head				
	parameter set to 'BS' and a PID	F XML MIME body is present	the presence status set to		
	'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>	d			
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 paramete	er in the Request line and PIDF	basic status "open" is		
	interworked into CCBS RESUN	1E			
Test Purpose	Ensure that on receipt of a PUI				
	line is set to 'BS' the Event hea				
	MIME body is present the pres		CP UDT or XUDT is sent		
	containing a TC-Cont CCBS R	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"</th <th>encoding="UTF-8"?&gt;</th> <th></th>	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 sche	•			
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				

TD mumb an	TD 400 040	Deference	7.5.44.4		
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 paramete	er in Call-Info header and PIDF	basic status "open" is		
	interworked into CCBS RESUN	ΛΕ			
Test Purpose	Ensure that on receipt of a PUI	BLISH request and the Event h	neader field contains the value		
	'presence', a Call-Info header v	vith purpose parameter ser to	call-completion and m		
	parameter set to 'BS' and a PII	OF XML MIME body is present	the presence status set to		
	open', a SCCP UDT or XUDT	is 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:callin< th=""><th>g party number digits&gt;;purpos</th><th>e=call-completion; m=BS</th></sip:callin<>	g party number digits>;purpos	e=call-completion; m=BS		
	Content-Type: application/pidf+xml				
	xml version="1.0"</th <th>encoding="UTF-8"?&gt;</th> <th></th>	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 →	<b>→</b>	(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/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=NR parameter	er in the Request line and PIDF	basic status "closed" is		
	interworked into CCBS SUSPE	ND			
Test Purpose	Ensure that on receipt of a PUE				
	line is set to 'NR' the Event hea				
	MIME body is present the present		CCP UDT or XUDT is sent		
	containing a TC-Cont CCBS SI	JSPEND Data field.			
TCAP Parameter values	TC-Cont: CCBS SUSPEND				
SIP Parameter values	PUBLISH: <request uri="">; m=l</request>	NR			
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0"</th <th>encoding="UTF-8"?&gt;</th> <th></th>	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 →	<b>→</b>	(X)UDT (TC-Cont)		
	200 OK (PUBLISH)				
		Apply post test routine			

TP number	TP_408_015	Reference	7.5.11.1,	
I Hulliber	17_406_015	Kelefelice	Table 7.5.11.1.2	
T00 (	10.40.00/00/		Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	PUBLISH with m=NR parameter	er in Call-Info header and PIDF	- basic status "closed" is	
	interworked into CCBS SUSPE	ND		
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value	
	'presence', a Call-Info header v	vith purpose parameter ser to	call-completion and m	
	parameter set to 'NR' and a PII	OF XML MIME body is present	the presence status set to	
	closed, a SCCP UDT or XUD7	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>			
	- <status></status>			
	<basic>close</basic>	d		
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 →	· →	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
	Apply post test routine			
	Apply post test routile			

TP 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 parameter	er in the Request line and PIDF	basic status "open" is	
	interworked into CCBS RESUM	1E		
Test Purpose	Ensure that on receipt of a PUE			
	line is set to 'NR' the Event hea			
	MIME body is present the present		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>	NR		
	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>			
	<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 → (X)UDT (TC-Cont)			
	200 OK (PUBLISH) ←			
		Apply post test routine		

TP number	TP_408_017	Reference	7.5.11.1,	
i Findiniber	IP_406_017	Reference	· ·	
			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 parameter	er in Call-Info header and PIDI	basic status "open" is	
-	interworked into CCBS RESUM	1E	·	
Test Purpose	Ensure that on receipt of a PUE			
	'presence' a Call-Info header w			
	parameter set to 'NR' and a PID	OF XML MIME body is present	the presence status set to	
	open', a SCCP UDT or XUDT i			
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>	Ğ		
	<status></status>			
	<basic>open-</basic>			
Comments	Note the XML semantic is sche	matically the alias is not consi	dered.	
Message flows	Mg	MGCF	SCCP	
_	Successful CCNR reques	t and remote user is free ori	ginating user suspended	
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
	Apply post test routine			

TP number	TP_408_018	Reference	7.5.11.1,		
			Table 7.5.11.1.2		
TSS reference	IMS-SS/CC/	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	xpires header set to '0' is inter	worked into CCBS CANCEL		
Test Purpose	Ensure that on receipt of a SUBSCRIBE request and a m parameter is present in the Request line is set to 'BS' <b>or</b> a Call-Info header with purpose parameter ser to call-completion and m parameter set to 'BS' and Event header field contains the value 'call-				
	completion' and an Expires heat TC-End CCBS CANCEL Data		XUDT is sent containing a		
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 → (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 SUBSCRIBE request and a m parameter is present in the Request line is set to 'NR' <b>or</b> a Call-Info header with purpose parameter ser to call-completion and m parameter set to 'BS' and Event header field contains the value 'call-completion' and an Expires header set to '0', a SCCP UDT or XUDT is sent containing a			
	TC-End CCBS CANCEL Data		3	
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 →	<b>→</b>	(X)UDT (TC-End)	
	202 Accepted ←			
	Apply post test routine			

TP number	TP 408 020	Reference	7.5.11.1,			
	11 _ 100_020	110.0.0.0	Table 7.5.11.1.3			
TSS reference	IMS-SS/CC/					
		24				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2					
Test Purpose name	TC-Cont CCBS REQUEST (ret	urn result) is interworked into l	NOTIFY cc-service-retention			
	present					
Test Purpose	Ensure that on receipt of a UD					
	result) Data field and the Retail	nSupported element is set to T	RUE, a NOTIFY request is			
	sent and the cc-state body is se	et to 'queued' the cc-service-re	tention body is set to 'true'.			
TCAP Parameter values	TC-Cont: CCBS REQUEST (re	eturn result)	-			
	RetainSupported	=TRUE				
SIP Parameter values	NOTIFY: Event: call-completion	on				
	Content-Type: application/call-completion					
	cc-state: queued					
	cc-service-retention: true					
Comments						
Message flows	Mg	MGCF	SCCP			
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)			
	202 Accepted		, , , ,			
	202710000000					
	NOTIFY <b>←</b>	<b>←</b>	(X)UDT (TC-Cont)			
	200 OK (NOTIFY) →	•	(1,021 (10 0011)			
	Apply post test routine					
		Apply poor tost 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 PIC	S 6.3.2/24				
Test Purpose name	TC-Cont CCBS REQUI	EST (return result) is interwo	rked into NOTIFY cc-service-retention			
Test Purpose	result) Data field and th	Ensure that on receipt of a UDT or XUDT containing a TC-Cont CCBS REQUEST (return result) Data field and the RetainSupported element is set to FALSE, a NOTIFY request is sent and the cc-state body is set to 'queued' a cc-service-retention body is not present.				
TCAP Parameter values		TC-Cont: CCBS REQUEST (return result) RetainSupported=FALSE				
SIP Parameter values	NOTIFY: Event: call-c	NOTIFY: Event: call-completion				
	Content-Typ	Content-Type: application/call-completion				
	cc-state: queued					
Comments						
Message flows	Mg	MGCF	SCCP			
	SUBSCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)			
	202 Accepted	<b>←</b>				
	NOTIFY 200 OK (NOTIFY)	<b>←</b> →	<b>←</b> (X)UDT (TC-Cont)			
	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	E CCBS request is sent.			
TCAP Parameter values	TC Begin				
	CCBS REQUEST invoke	CCBS REQUEST invoke			
	TC-End CCBS REQUEST (Return error)				
	ShortTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=BS			
	Event: call-completion				
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_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	eld set to 'LongTermDenial', a	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,	
	11 100_02 !	1.0.0.0.00	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 S response to SUBCRIBE	hortTermDenial receive	ed, 480 Temporarily Unavailable	
Test Purpose	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			
SIP Parameter values	SUBSCRIBE: <request uri=""> Event: call-com</request>			
Comments				
Message flows	Mg SUBCRIBE 480 Temporarily Unavailable	MGC → ← Apply post test ro	<ul><li>→ (X)UDT (TC-Begin)</li><li>← (X)UDT (TC-End)</li></ul>	

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 PICS 6.3.2/2	24		
Test Purpose name	CCNR 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	eld set to 'LongTermDenial', a	403 Forbidden final response	
	to the SUBCRIBE CCNR reque	est is sent.		
TCAP Parameter values	TC Begin			
	CCNR REQUEST invoke			
	TC-End CCNR REQUEST (Return error)			
	LongTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>			
	Event: call-comp	letion		
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_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	ed after CCBS was successfu	lly invoked	
Test Purpose	Ensure that on receipt of an UI	OT or XUDT containing a TC-E	nd CCBS CANCEL after a	
	CCBS was successfully invoke	d, a NOTIFY request is sent co	ontaining a m parameter set	
	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	<b>+</b>	(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/	<u> </u>		
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name	TC-End CCBS CANCE	L received after CCNR was s	successfully invoked	
Test Purpose	Ensure that on receipt of an UDT or XUDT containing a TC-End CCBS CANCEL after a CCNR was successfully invoked, a NOTIFY request is sent containing a m parameter set to 'NR' in the Request line and a Subscription-State header set to 'terminated ' and the subexp-params <b>reason</b> set to 'noresource'.			
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request event:call-co<="" th="" u=""><th></th><th>oresource</th></request>		oresource	
Comments				
Message flows	Mg	MGCF	SCCP	
	CCNR request successfully invoked			
	NOTIFY	<b>←</b>	(X)UDT (TC-End)	
	200 OK NOTIFY	<b>→</b>		
		Apply post test ro	outine	

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 6.3.2/2	24			
Test Purpose name	Interworking of Remote user fre	ee indication at the I-MGCF			
Test Purpose	Ensure that on receipt of a UD	Γ or XUDT containing a TC-Co	nt REMOTE USER FREE		
	invoke component in the Data t	field, a NOTIFY request is sent	and a cc-state body is		
	present set to 'ready'.	·	-		
TCAP Parameter values	TC-Cont				
	CCBS REMOTE USER FR	EE			
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: ready				
Comments					
Message flows	Mg	MGCF	SCCP		
_	CCNR request successfully invoked				
	NOTIFY	· <b>←</b>	(X)UDT (TC-Cont)		
	200 OK (NOTIFY) →		, , , ,		
	Apply post test routine				

TP number	TP_408_029	Reference	7.5.11.2,			
I number	11 _400_029	Reference	Table 7.5.11.2.1			
<del></del>	11.40.00/00/		Table 7.5.11.2.1			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PIC	PICS 6.3.1/2 AND PICS 6.3.2/24				
Test Purpose name			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 terminating user and a	a purpose parameter set to			
	call-completion and m	n parameter ser to 'NR', an A	CM is sent and a CCNR possible			
		present set to 'CCNR possib				
ISUP Parameter values	IAM: Called party nu					
	Number dig	its				
	ACM: Called party sta	ACM: Called party status				
	Subscriber free					
	CCNR possible indicator					
	CCNR possible					
SIP Parameter values						
Comments	'	, , , , , , , , , , , , , , , , , , , ,				
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	★ 180 Ringing			
	Apply post test routine					

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 6.3.2/2	24				
Test Purpose name	Mapping of CCNR possible ind	ication 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			
	present set to the URI of the te	rminating user and a purpose	parameter set to			
	'call-completion' and m parame	ter ser to 'NR', a CPG is sent i	f an ACM was sent before			
	and a CCNR possible indicator	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 indicate	r				
	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 → S	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 m	apped into REL cause 17 and 0	CCBS possible		
Test Purpose		6 Busy Here and a Call-Info he			
	of the terminating user and a purpose parameter set to 'call-completion' and m parameter set to 'BS', a REL message is sent and the Cause value is set to 17 or 34 the Diagnostics is set to 'CCBS possible'.				
ISUP Parameter values	REL: Cause indicator Cause=17 or 34 Diagnostics= CCBS	S possible			
SIP Parameter values	486: Call-Info: <sip:called p<="" th=""><th>party number digits&gt;;purpose=c</th><th>all-completion</th></sip:called>	party number digits>;purpose=c	all-completion		
Comments			•		
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	REL ←	<del>(</del>	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 PICS 6.3.2	:/24	
Test Purpose name	CCSS call indicator in IAM is INVITE	mapped into the m parameter in	n the Request line in the sent
Test Purpose		AM and a CCSS call indicator p st is sent and the Request line of	
ISUP Parameter values	IAM: CCSS call indicator CCSS call		
SIP Parameter values	INVITE: <request uri="">;m= Call-Info: <sip:call NR</sip:call </request>	<pre>-NR or ;m=BS ed party number digits&gt;;purpos</pre>	e=call-completion; m=BS or
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

TP number	TP 408 033	Reference	7.5.11.2,	
Tr Hamber	11 _400_000	Treference	Table 7.5.11.2.2	
TSS reference	IMS-SS/CC/		14510 7.0.11.2.2	
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 SUBCR	IBE request invokes CCBS	
Test Purpose	Ensure that on receipt of a UDT or XUDT containing a TC-Begin CCBS REQUEST (invoke) component, a SUBSCRIBE request is sent and the From and the P-Asserted-			
	Identity header are derived fror			
	is derived from the CCBS REQ			
	'call-completion' the Request lin	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>			
		rom the CCBS REQUEST Ca		
	To: <derived calledpartynumber="" ccbs="" from="" request="" the=""></derived>			
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>			
	CallingPartyNumber >			
	Event: call-completion			
	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,	
			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 CCNR REQUEST (ir	nvoke) is mapped into SUBCR	IBE request invokes CCNR	
Test Purpose	Ensure that on receipt of a UDT or XUDT containing a TC-Begin CCNR REQUEST			
	(invoke) component, a SUBSC			
	Identity header are derived fror			
	is derived from the CCNR REC			
	'call-completion' the Request lin	ne contains the m parameter s	et 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< th=""><th>from the CCNR REQUEST Ca</th><th>llingPartyNumber &gt;</th></derived<>	from the CCNR REQUEST Ca	llingPartyNumber >	
	To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>			
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>			
	CallingPartyNumber >			
	Event: call-completion Expires: <any value=""></any>			
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT(TC-Begin) →	<b>→</b>	SUBSCRIBE	
		<b>←</b>	202 Accepted	
		Apply post test routine	•	

TP number	TP 408 035	Reference	7.5.11.2,		
			Table 7.5.11.2.2		
TSS reference	IMS-SS/CC/	<u> </u>	1 202 2		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/24			
Test Purpose name	TC-Cont CCBS SUSF "closed"	TC-Cont CCBS SUSPEND is interworked into PUBLISH with m=BS and PIDF basic status "closed"			
Test Purpose	CCBS or CCNR is invoked and the remote user is free. Ensure that on receipt of a				
			BLISH request is sent containing the		
			he Event header set to 'presence' and		
	a PIDF XML MIME bo	dy is present the presence sta	tus set to 'closed'.		
TCAP Parameter values	TC-Cont				
	CCBS SUSPEND				
SIP Parameter values	PUBLISH: <request \<="" th=""><th>JRI&gt;; m=BS <b>or</b> ;m=NR</th><th></th></request>	JRI>; m=BS <b>or</b> ;m=NR			
	Event: pres	sence			
	Content-Ty	pe: application/pidf+xml			
	xml vers</th <th>ion="1.0" encoding="UTF-8"?&gt;</th> <th>•</th>	ion="1.0" encoding="UTF-8"?>	•		
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>				
	<status< th=""><th></th><th></th></status<>				
		sic>closed			
Comments	Note the XML semant	Note the XML semantic is schematically the alias is not considered.			
Message flows	SCCP	MGCF	Mg		
	Invoke a suc	Invoke a successful CCBS/CCNR request and remote user is now free			
	(X)UDT(TC-Cont)	<b>→</b>	→ PUBLISH		
			← 200 OK (PUBLISH)		
		Apply post test ro	outine `		

TP number	TP_408_036	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 RESUME is int	erworked into PUBLISH with n	n=NR and PIDF basic status	
	"open"			
Test Purpose	CCBS or CCNR is invoked and			
	Ensure that on receipt of a TC-			
	request is sent containing the r			
	header set to 'presence' and a	PIDF XML MIME body is prese	ent the presence status set to	
	'open'.			
TCAP Parameter values	TC-Cont			
	CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">;m='</request>	BS' <b>or</b> ;m=NR		
	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>			
_	<basic>open</basic>			
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			
	← 200 OK (PUBLISH)			
		Apply post test routine		

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 PIC	S 6.3.2/24			
Test Purpose name	TC-End CCBS CANCE header set to '0'	TC-End CCBS CANCEL is interworked into SUBSCRIBE with m=BS or NR and Expires header set to '0'			
Test Purpose	A CCBS or CCNR is successfully invoked. Ensure that on receipt of a UDT or XUDT containing a TC-End CCBS CANCEL Data field, a SUBSCRIBE request is sent and a m parameter is present in the Request URI set to 'BS' or 'NR the Event header field is set to 'call-completion' and the Expires header is set to '0'.				
TCAP Parameter values	TC-End: CCBS CANO	CEL			
SIP Parameter values	SUBSCRIBE: <request uri="">; m=BS or ;m='NR'</request>				
	Event:call-completion				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
	or m=NR				
	Expires:	0			
Comments					
Message flows	SCCP	MGCF	Mg		
	A CCBS or CCNR is successfully invoked				
	(X)UDT (TC-End)	<b>→</b>	→ SUBSCRIBE		
			← 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	5.3.2/24			
Test Purpose name	A NOTIFY cc-state 'queue	ed' and cc-service-retention 'tru	ie' is mapped into a TC-Cont		
	CCBS REQUEST (return	result) retain supported			
Test Purpose	Ensure that on receipt of a	a NOTIFY request the Event he	eader field is set to 'call-completion'		
		'queued' and the cc-service-re			
	TC-Cont is sent and the C	CBS REQUEST (return result)	component is present the		
	RetainSupported element	is set to 'TRUE'.			
TCAP Parameter values	TC-Cont: CCBS REQUE	ST (return result)			
	RetainSupported=TRUE				
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
	cc-service-r	etention: true			
Comments					
Message flows	SCCP	MGCF	Mg		
	CCBS request already invoked				
	(X)UDT (TC-Cont)	<del>[-</del>	← NOTIFY		
			→ 200 OK (NOTIFY)		
		Apply post test routir	ne ´		

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' ar			
	TC-Cont CCBS REQUEST (re	turn result) retain not supporte	d	
Test Purpose	Ensure that on receipt of a NO	TIFY request the Event header	field is set to 'call-completion'	
	the cc-state body is set to 'que			
	TC-Cont is sent and the CCBS		ponent is present the	
	RetainSupported element is se	t to 'FALSE'.		
TCAP Parameter values	TC-Cont: CCBS REQUEST (return result)			
	RetainSupported=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,		
			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 'que	ued' and cc-service-retention	'true' is mapped into a TC-Cont		
		n result) retain supported			
Test Purpose	Ensure that on receipt of	f a NOTIFY request the Event	t header field is set to 'call-completion'		
			e-retention body is set to 'true', a		
	TC-Cont is sent and the	CCNR REQUEST (return res	sult) component is present the		
	RetainSupported elemer	nt is set to 'TRUE'.			
TCAP Parameter values	TC-Cont: CCNR REQU	EST (return result)			
	RetainSupported=TRUE				
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
	cc-service	-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/			
Selection criteria	PICS 6.3.1/2 AND PICS	6 6.3.2/24		
Test Purpose name	A NOTIFY cc-state 'que	ued' and cc-service-retentior	r 'true' is mapped into a TC-Cont	
	CCNR REQUEST (retui	rn result) retain not supported	d	
Test Purpose			nt header field is set to 'call-completion'	
			e-retention body is not present, a	
			esult) component is present the	
	RetainSupported eleme	nt is set to 'FALSE'.		
TCAP Parameter values	TC-Cont: CCNR REQU	JEST (return result)		
	RetainSupported=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)	<b>←</b>	← 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	ailable 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 REQUEST (Return error) ShortTermDenial			
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 PICS 6.3.2/	24		
Test Purpose name	CCNR request unsuccessful 4	80 Temporarily Unavailable is	received	
Test Purpose	Ensure that on receipt of a 480	Temporarily Unavailable fina	I response upon CCNR was	
	requested, a TC-End CCNR R	EQUEST (Return error) comp	onent containing the	
	ShortTermDenial Element is so	ent.	-	
TCAP Parameter values	TC-End CCNR REQUEST (Re	turn error)		
	ShortTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>			
	Event: call-completion			
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin) →	<b>→</b> S	UBCRIBE	
	(X)UDT (TC-End) ←	← 4	80 Temporarily Unavailable	
	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 PIC	S 6.3.2/24		
Test Purpose name	CCBS request unsucce	essful 403 Forbidden is rece	ived	
Test Purpose	Ensure that on receipt of a 403 Forbidden final response upon CCBS was requested, a TC-End CCBS REQUEST (Return error) component containing the LongTermDenial Element is sent.			
TCAP Parameter values	TC-End CCBS REQUE Long	ST (Return error) TermDenial		
SIP Parameter values	SUBSCRIBE: <reques< th=""><th>st URI&gt;, m=BS all-completion</th><th></th></reques<>	st URI>, m=BS all-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 unsuccessful 4	03 Forbidden is sent		
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 REQUEST (Return error)  LongTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>			
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin) → (X)UDT (TC-End) ←	<b>←</b> 40	JBCRIBE 03 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 PICS 6.3.2/2	24		
Test Purpose name	CCBS invoked. NOTIFY with S	State header field set to "termin	nated" received TC-End is sent	
Test Purpose	Ensure that on receipt of a NO			
	'terminated' and the subexp-pa			
	successfully invoked, a TC-End	d message is sent containing t	he CCBS CANCEL	
	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	
	CCBS request successfully invoked			
	(X)UDT (TC-End) ←	<b>←</b>	NOTIFY	
		<b>→</b>	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	2/24		
Test Purpose name	CCNR invoked at the O-MGC	F NOTIFY with State header fie	eld set to "terminated" received	
	TC-End is sent			
Test Purpose		OTIFY request the Subscription		
		arams <b>reason</b> set to 'noresourd		
	successfully invoked, a TC-E	nd message is sent containing t	he CCBS CANCEL	
	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/			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name	Interworking of Remote	e user free indication at the O	-MGCF	
Test Purpose	Ensure that on receipt of a NOTIFY request the cc-state body is set to 'ready' upon Call completion was successfully invoked, a TC-Cont message is sent containing the CCBS REMOTE USER FREE component.			
TCAP Parameter values	TC-Cont CCBS REMOTE US	SER FREE		
SIP Parameter values	NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: ready			
Comments	co state.	ready		
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/	IMS-SS/CW/			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/8			
Test Purpose name	Mapping of Generic no	otification 'call waiting' in an	ACM into Alert-Info header		
Test Purpose			status indicator is set to 'subscriber free' oresent set to "Call is a waiting call, a 180		
		ert-Info header is present ai			
ISUP Parameter values		ACM: Backward call indicator			
		y status indicator			
	Subscriber free				
	Generic notification				
	Call is a waiting call				
SIP Parameter values	180: Alert-Info				
	urn:alert:se	urn:alert:service:call-waiting			
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → 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 6.3.2/8	3			
Test Purpose name	Mapping of Generic notification	'call waiting' in a CPG into Ale	ert-Info header		
Test Purpose	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	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	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM ACM		
	180 Ringing ← ← CPG  Apply post test routine				

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 Alert-Info header in a 180 into Generic notification 'Call waiting' in an ACM			
Test Purpose	Ensure that on receipt of a 180 Ringing and an Alert Info header is present the value is set to 'urn:alert:service:call-waiting', an ACM is sent containing a Generic notification indication parameter set to 'Call is a waiting call'.			
ISUP Parameter values	ACM: Backward call indicator Called party status indicator Subscriber free Generic notification Call is a waiting call			
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting			
Comments				
Message flows	ISUP	MGCF	Mg	
	ACM Apply post test routi	→ ← ine	→ INVITE ← 100 Trying ← 180 Ringing	

TP number	TP_409_004	Refere	nce	7.5.12	
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.1/2 AND PICS 6.3.2/8			
Test Purpose name	Interworking of the CPG	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a CPG			
Test Purpose	Ensure that on receipt of a 180 Ringing and an Alert Info header is present the value is set to 'urn:alert:service:call-waiting', a CPG is sent containing a Generic notification indication parameter set to 'Call is a waiting call'. The Event indicator is set to 'Alerting'.				
ISUP Parameter values	CPG: Event indicator  Alerting  Generic notification  Call is a waiting call				
SIP Parameter values	180: Alert-Info	t:service:call-waiting			
Comments					
Message flows	ISUP	M	GCF		Mg
	IAM	<b>→</b>	<b>→</b>	INVITE 100 Trying	
	ACM CPG Apply post test re	T i/w2 e ← outine	xpired ←	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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