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Core Network and Interoperability Testing (INT); Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks; Conformance Test Specification; (3GPP™ Release 10);

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

#### Reference

#### RTS/INT-00111-2

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#### **Foreword**

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

The present document is part 2 of a multi-part deliverable covering 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)".

### Modal verbs terminology

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### 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 ETSI TS 129 163 [1] (Release 10).

### 2 References

#### 2.1 Normative references

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

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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 Mot Telecommunications System (UMTS); LTE; Interworking between the IP Multimedia (IM Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 Release 1	) Core
	,
[2] ETSI TS 102 710-1: "Core Network and Interoperability Testing (INT); Interworking betw IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks; Conformance Test Specification; (3GPPTM Release 10); Part 1: Protocol Implementation Conformance Statement (PICS)".	een the
[3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance methodology and framework - Part 1: General concepts".	testing
[4] Recommendation ITU-T T.38: "Procedures for real-time Group 3 facsimile communication IP networks".	ı over

- [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)".
- [7] Void.

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

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

## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

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

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

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

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

NOTE: This may contain additional information.

### 3.2 Symbols

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

#### 3.3 Abbreviations

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

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

## 4 Test Suite Structure (TSS)

The Test Suite Structure is in close alignment with ETSI 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

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

## 5 Test Purposes (TP)

### 5.1 Introduction

## 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: TF	Identifier: TP_ <group>_<nnn></nnn></group>					
<group></group>	=	group	3 digit field representing gro	oup reference according to TSS		
<nnn></nnn>	=	TP number	3 digit sequential number	(001 to 999)		

### 5.1.2 Test strategy

As the base standard ETSI 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 ETSI 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	Referer	nce	7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/		·	
Selection criteria					
Test Purpose name	Sending of IAM				
Test Purpose	Ensure that on recept IAM message.	ion of a SIP INVI	ΓE requesting a	session, the I-MGCF sends an	
ISUP Parameter values	_				
SIP Parameter values					
Comments					
Message flows	Mg		MGCF	ISUP	
	INVITE	<b>→</b>		→ IAM	
	100 Trying	<b>←</b>			
		Apply	post test rout	ine	

TP number	TP_101_002   Reference   7.2.3.1.1					
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 optional remote sendrecv					
	183: Require: 100rel					
	SDP a=curr:gos local none					
	a=curr:qos remote none					
	a=des:gos optional 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 optional remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
	a=des:qos optional 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					
	Apply post test routine					

TP number	TP_101_003		Reference		7.2.3.1.1
TSS reference		c call/Sending_			
Selection criteria	PICS 6.1.1/1 A	ND PICS 6.2.1.	/1 AND NOT PICS 6	.2.1/2	
Test Purpose name	Preconditions s	support indicate	d in the Supported h	neader	
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is				
					UPDATE was received. The
			is set to 'continuity of		
ISUP Parameter values			icator = 'continuity c	heck is not	required'
SIP Parameter values		orted: precondit			
		a=curr:qos loca			
	a=curr:qos remote none				
			datory local sendrec		
	6	a=des:qos optic	nal remote sendrecy	/	
	192: Boguiro:	100ral			
	183: Require: 7	a=curr:qos loca	Inone		
	-	a=curr:qos ioca a=curr:qos remo			
			nal local sendrecv		
				ecv	
	a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv				
	a=coni.qos remote senurecy				
	UPDATE:				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remote none				
	a=des:qos mandatory local sendrecv				
	6	a=des:qos optic	nal remote sendrec	/	
	200 OK UPDA	TE			
		a=curr:qos loca	Leandracy		
		a=curr:qos remo			
			nal local sendrecv		
			datory remote sendr	ecv	
Comments		<u> </u>	<u> </u>	-	
Message flows	Mg		MGCF		ISUP
	INVITE	· +	•		
	100 Trying	+	1		
	183 Session P	rogress	•		
	PRACK	<b>→</b>	•		
	200 OK (PRAC	CK)	•		
	UPDATÈ	, ,		<b>→</b>	IAM
	200 OK (UPDA				
	(	,	Apply post test r	outine	

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 optional remote sendrecv					
	400. Paguiras 400ral					
	183: Require: 100rel SDP a=curr:gos local none					
	SDP a=curr:qos local none a=curr:qos remote none					
	a=des:qos optional local sendrecv					
	a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	a-som que formete somares v					
	UPDATE:					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos optional remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
	a=des:qos optional local sendrecv					
Comments	a=des:qos mandatory remote sendrecv					
Message flows	Mg MGCF ISUP					
Wessage nows	INVITE → IAM					
	100 Trying					
	183 Session Progress					
	PRACK +					
	,					
	,					
	Apply post test routine					

TP number	TP_101_005   Reference   7.2.3.1.1					
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 Require header					
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is					
_	indicated in the Require header. The IAM is sent after the UPDATE was received. The					
	Nature of connection indicator is set to 'continuity check is not required'.					
ISUP Parameter values	IAM: Nature of connection indicator = 'continuity check is not required'					
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 optional remote sendrecv					
	100 B : 100 I					
	183: Require: 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos optional 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:gos optional remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
	a=des:qos optional local sendrecv					
	a=des:qos mandatory remote sendrecv					
Comments						
Message flows	Mg MGCF ISUP					
	INVITE →					
	100 Trying					
	183 Session Progress					
	PRACK →					
	200 OK (PRACK) ←					
	UPDATE → IAM					
	200 OK (UPDATE) ←					
	Apply post test routine					

TP number	TP_101_006   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 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 optional remote sendrecv				
	183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional 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 optional remote sendrecv				
200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional 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_of_IAM/					
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2					
Test Purpose name	Preconditions support indicated in the Supported header					
Test Purpose	Ensure that the Preconditions 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 'no COT to be expected'.					
ISUP Parameter values	IAM: Nature of connection indicator = 'no COT to be expected'					
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 optional remote sendrecv					
	183: Require: 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos optional local sendrecv					
	a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	LIBBATE					
	UPDATE:					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos optional remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:gos remote sendrecv					
	a=des:qos optional local sendrecv					
	a=des:qos mandatory remote sendrecv					
Comments						
Message flows	Mg MGCF ISUP					
	INVITE →					
	100 Trying ←					
	183 Session Progress					
	PRACK →					
	200 OK (PRACK)					
	UPDATE → IAM					
	200 OK (UPDATE)					
	Apply post test routine					
1	- Phy bearing					

TP number	TP_101_008					
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS 6.2.1/2					
Test Purpose name	Preconditions support indicated in the Require header					
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is					
-	indicated in the Require header. The IAM is immediately sent. The Nature of connection					
	indicator is set to 'COT to be expected'. After the UPDATE was received, a COT is sent.					
ISUP Parameter values	IAM: Nature of connection indicator = 'COT to be expected'					
	COT: Continuity indicator = 'Continuity check successful'					
SIP Parameter values	INVITE: Require: precondition, 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos optional remote sendrecv					
	183: Require: 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos optional local sendrecv					
	a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	UPDATE:					
	SDP a=curr:gos local sendrecv					
	a=curr:qos rocar sendrecv a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos infalidatory local sendrecv a=des:qos optional remote sendrecv					
	u-uoo.qoo optionar romoto conarcov					
	200 OK UPDATE					
	SDP a=curr:gos local sendrecv					
	a=curr:gos remote sendrecv					
	a=des:gos optional local sendrecv					
	a=des:qos mandatory remote sendrecv					
Comments						
Message flows	Mg MGCF ISUP					
	INVITE → IAM					
	100 Trying ←					
	183 Session Progress ←					
	PRACK →					
	200 OK (PRACK) ←					
	UPDATÈ → COT					
	200 OK (UPDATE) ←					
	Apply post test routine					

indicated in the Require header. The IAM is sent after the UPDÄTE was received. The Nature of connection indicator is set to 'no COT to be expected'.  IAM: Nature of connection indicator = 'no COT to be expected'  IAM: Nature of connection indicator = 'no COT to be expected'  INVITE: Require: precondition, 100rel  SDP a=curr:qos local none	TP number	TP_101_009					
Test Purpose name							
Ensure that the Preconditions procedure is successful if the support of Precondition indicated in the Require header. The IAM is sent after the UPDATE was received. The Nature of connection indicator is set to 'no COT to be expected'.	Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2					
indicated in the Require header. The IAM is sent after the UPDATE was received. The Nature of connection indicator is set to 'no COT to be expected'.  ISUP Parameter values  IAM: Nature of connection indicator = 'no COT to be expected'  IAM: Nature of connection indicator = 'no COT to be expected'  IAM: Nature of connection indicator = 'no COT to be expected'  IAM: Nature of connection indicator is set to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator is et to 'no COT to be expected'  IAM: Nature of connection indicator in COT to De expected'  IAM: Nature of connection indicator in COT to Do COT to be expected'  IAM: Nature of connection indicator in COT to be expected'  IAM: Nature of connection in COT to Despete in COT	Test Purpose name	Preconditions support indicated in the Require header					
Nature of connection indicator is set to 'no COT to be expected'.   ISUP Parameter values   IAM: Nature of connection indicator = 'no COT to be expected'     INVITE: Require: precondition, 100rel     SDP	Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is					
IAM: Nature of connection indicator = 'no COT to be expected'   SIP Parameter values   INVITE: Require: precondition, 100rel     SDP		indicated in the Require header. The IAM is sent after the UPDATE was received. The					
INVITE: Require: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote none a=curr:qos remote sendrecv a=curr:qos remote none a=des:qos mandatory remote sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv a=des:qos optional remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv s=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 optional remote sendrecv  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional local sendrecv a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv s=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv s=des:qos mandatory remote sendrecv							
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  183: Require: 100rel SDP	SIP Parameter values						
a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional 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=curr:qos remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=des:qos optional remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv s=des:qos mandatory remote sendrecv s=des:qos mandatory remote sendrecv							
a=des:qos optional remote sendrecv  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=des:qos optional remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv							
183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=des:qos optional local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv BOMBERS MGCF ISUP							
SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=des:qos optional remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv ISUP		a=des:qos optional remote sendrecv					
SDP a=curr:qos local none a=curr:qos remote none a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=des:qos optional remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv ISUP							
a=curr:qos remote none a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv ISUP		·					
a=des:qos optional 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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv ISUP							
a=des:qos mandatory remote sendrecv  UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos local sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP							
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 optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP							
UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments Message flows Mg MGCF ISUP							
SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP		a=coni.qos remote sendrecv					
SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP		 					
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP		SDP a=curr:qos local sendrecv					
a=des:qos mandatory local sendrecv a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP							
a=des:qos optional remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows Mg MGCF ISUP							
200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments Message flows Mg MGCF ISUP							
SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg  MGCF  ISUP		a-accique optional formatio contaious					
SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg  MGCF  ISUP		200 OK UPDATE					
a=curr:qos remote sendrecv a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg  MGCF  ISUP							
a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg  MGCF  ISUP							
a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg  MGCF  ISUP							
Comments Message flows Mg MGCF ISUP							
	Comments						
INIVITE	Message flows	Mg MGCF ISUP					
INVIIE 7		INVITE →					
100 Trying ←		100 Trying ←					
183 Session Progress ←		183 Session Progress ←					
PRACK →		PRACK →					
200 OK (PRACK) ←		200 OK (PRACK) ←					
UPDATÈ → JAM							
200 OK (UPDATE) ←		200 OK (UPDATE)					
Apply post test routine							

TP number	TP_101_009	_a	Reference		7.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/						
Selection criteria	PICS 6.1.1/1	AND PICS 6.2.1/1					
Test Purpose name	Precondition	s fulfilled in the INV	ITE request				
Test Purpose		Ensure that the Preconditions procedure is fulfilled indicated in the SDP received in the					
			nediately sent. The	Nature o	f connection	n indicator is set to	
		eck is not required					
ISUP Parameter values		of connection indic	ator = 'continuity ch	eck is no	ot required'		
SIP Parameter values	INVITE:						
	Supporte	d: precondition, 10	Orel				
	or	1141					
		precondition, 100re					
	SDP	a=curr:qos local s					
		a=curr:qos remot					
			atory local sendrecy	'			
	a=des:qos none remote sendrecv						
	180						
	SDP	a=curr:qos local r	none				
	a=curr:qos remote sendrecv						
	a=des:qos none local sendrecv						
		a=des:qos manda	atory remote sendre	CV			
Comments							
Message flows		lg _	MGCF	_		ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM		
	100 Trying	<b>←</b>		_			
	180 Ringing	<b>←</b>		+	ACM		
	PRACK	<b>→</b>					
	200 OK (PR	ACK)					
			Apply post test re	outine			

TP number	TP 101 009	) b	Reference		7.3.3.1.1		
TSS reference	SIP-ISUP/Ba	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria		PICS 6.1.1/2 AND PICS 6.2.1/1					
Test Purpose name	Precondition	Preconditions fulfilled in the INVITE request					
Test Purpose	Ensure that	he Preconditions	procedure is fulfille	d indicated	in the SD	P received in the	
	INVITE requ	est. The IAM is im	nmediately sent. The	e Nature o	f connection	n indicator is set to	
	'no COT to b						
ISUP Parameter values		of connection ind	icator = 'no COT to	be expect	ed'		
SIP Parameter values	INVITE:						
		d: precondition, 1	00rel				
	or .	11.1					
		precondition, 100					
	SDP	a=curr:qos loca					
		a=curr:qos remote none					
	a=des:qos mandatory local sendrecv						
	a=des:qos none remote sendrecv						
	180						
	SDP	a=curr:qos loca	l none				
	a=curr:qos remote sendrecv						
	a=des:qos none local sendrecv						
		a=des:qos man	datory remote send	recv			
Comments		_					
Message flows		/lg	MGCF			ISUP	
	INVITE	<del>)</del>		<b>→</b>	IAM		
	100 Trying	<del>(</del>		_			
	180 Ringing	<b>←</b>		+	ACM		
	PRACK	<del>)</del>					
	200 OK (PR	ACK)					
			Apply post test	routine			

TP number	TP_101_010	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 media type is re	ejected 488 is sent					
Test Purpose	Ensure that an unsupported response is sent to the callin		88 Not Acceptable Here final				
ISUP Parameter values							
SIP Parameter values	INVITE:	NVITE:					
	SDP: m= video 4713 RTF	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/Sendir	ng_of_IAM/		•				
Selection criteria								
Test Purpose name	Unsupported media type is	rejected session successfu	ıl					
Test Purpose	Ensure that an unsupported	Insure that an unsupported media type is rejected. The SUT sends in the SDP answer						
	the port number '0' for the o	ne port number '0' for the concerned media type.						
ISUP Parameter values								
SIP Parameter values	INVITE:							
	SDP: m=audio 4711 R	TP/AVP 8						
	m= video 4713 F	RTP/AVP 31						
	180 Ringing or 183 Session Progress							
	SDP: m=audio <appropriate #="" port=""> RTP/AVP 8</appropriate>							
	m=video 0 RTP/	AVP 31						
Comments								
Message flows	Mg	MGCF		ISUP				
	INVITE	<b>→</b>	<b>→</b>	IAM				
	100 Trying	<del>-</del>						
			<b>←</b>	ACM				
	CASE A							
	180 Ringing	<b>←</b>						
	CASE B							
	183 Session Progress	<b>←</b>						
		Apply post test rout	ine					

TP number	TP_101_012	Reference	7.2.3.1.1					
TSS reference	SIP-ISUP/Basic call/Sending	_of_IAM/						
Selection criteria								
Test Purpose name	Unsupported codec is desele	Unsupported codec is deselected						
Test Purpose	Ensure that the SUT removes	Ensure that the SUT removes a codec from the codec list in the SDP answer if the codec						
	is an unsupported codec.							
ISUP Parameter values								
SIP Parameter values	INVITE:							
	SDP: m=audio 4711 RT	P/AVP <unsupported codec=""> 8</unsupported>	3					
	180 Ringing or 183 Session Progress							
	SDP: m=audio <appropr< th=""><th>iate Port #&gt; RTP/AVP 8</th><th></th></appropr<>	iate Port #> RTP/AVP 8						
Comments								
Message flows	Mg	MGCF	ISUP					
	INVITE -	<b>→</b>	IAM					
	100 Trying	<b>F</b>						
		<b>←</b>	ACM					
	CASE A							
	180 Ringing	<b>-</b>						
	CASE B							
	183 Session Progress	<b>F</b>						
		Apply post test routine						

TP number	TP 101 013	Reference		7.2.3.1.1				
TSS reference	SIP-ISUP/Basic call/Send			7.2.0.1.1				
Selection criteria	Sil -1301 /Basic call/3elic	SIF-ISOF/Basic Call/Seriuling_OI_IAIW/						
Test Purpose name	INIVITE request without S	INVITE request without CDD offer received						
		INVITE request without SDP offer received  Ensure that on receipt of an INVITE request without a SDP offer, the SUT sends a SDP						
Test Purpose								
	offer in the first reliable no	on-railure message. 1	ne livik in th	ie sent invi	TE IS Set to 3,1			
IOUD D	kHz audio'.							
ISUP Parameter values	IAM:							
	TMR							
	3,1 kHz audio							
SIP Parameter values	INVITE: Supported: 100rd	el						
	180 Ringing or 183 Sessi							
	SDP: m=audio 4711	RTP/AVP 8						
Comments								
Message flows	Mg	MGCI	=		ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM				
	100 Trying	<del>(</del>						
			<b>←</b>	ACM				
	CASE A							
	180 Ringing	<del>(</del>						
	PRACK	<b>→</b>						
	200 OK PRACK	<b>←</b>						
	200 011 101011	•						
	CASE B							
	183 Session Progress	<b>←</b>						
	PRACK	<b>→</b>						
	200 OK PRACK	<del>-</del>						
	200 OK PRACK	=	at rautina					
	Apply post test routine							

TP number	TP_101_014	Reference	7.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sendi	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria					
Test Purpose name	To header tag is sent in th	e first provisional response			
Test Purpose	Ensure that a To header to	ag is contained in the first provis	ional response.		
ISUP Parameter values					
SIP Parameter values	INVITE: To: <uri></uri>				
	180 Ringing or 183 Session	n Progress: To: <uri>; <tag></tag></uri>			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b> →	► IAM		
	100 Trying	<b>←</b>			
		€	- ACM		
	CASE A				
	180 Ringing	<b>←</b>			
	040F 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 part	y number		
Test Purpose	<ul> <li>Ensure that an IAM is sent after an INVITE request was received.</li> <li>In case of the 'CC' of the received INVITE request URI is equal to the country code in which the next hop terminates: remove 'CC' from the user info and send the remaining part as digits in the called party number. The nature of address indicator is set to 'National (Significant) number'.</li> <li>In case of the 'CC' of the received INVITE request URI is not equal to the country code in which the next hop terminates: send the unchanged part of the request URI without '+' as digits in the called party number. The nature of address indicator is set to 'International number'.</li> <li>The internal Network Number Indicator = 'routing to internal network number not allowed' Numbering Plan Indicator = 'ISDN (Telephony) numbering plan</li> </ul>			
ISUP Parameter values	(Recommendation E.	,		
SIP Parameter values				
Comments				
Message flows	Mg	M	GCF	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	100 Trying	<b>←</b>		
	Apply post test routine			

TP number	TP_101_016	Refere	nce	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	d into a hex digit	F' in the called party number
Test Purpose	Ensure that on receip is sent al last digit in t			eteIndication element a hex digit 'F'
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_o	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.1.1/1					
Test Purpose name	Nature of connection indicator					
Test Purpose	Ensure that an IAM is sent after	er an INVITE request was rece	eived.			
	The nature of connection indica	ator is set:				
	Satellite indicator = 'no satelli	ite circuit in the connection'.				
	Continuity check indicator =	'continuity check not required	or 'continuity check required'			
	or 'continuity check perform	ned on a previous circuit.				
	Echo control device indicato	r				
	<ul> <li>TMR audio 3,1 kHz or spe</li> </ul>	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 MGCF ISUP					
	INVITE ->	<b>→</b>	IAM			
	100 Trying ←					
	Apply post test routine					

TP number	TP_101_018	Reference	7.2.3.1.2.2			
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/				
Selection criteria	PICS 6.1.1/2					
Test Purpose name	Nature of connection indicator					
Test Purpose		Ensure that an IAM is sent after 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 indicato	Echo control device indicator = outgoing echo control device included.				
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_019	Reference	7.2.3.1.2.3		
TSS reference	SIP-ISUP/Basic call/S	sending_of_IAM/			
Selection criteria	NOT PICS 6.2.1/5				
Test Purpose name	Forward Call indicator	- 3,1 kBit/s no PSTN XML att	achment present		
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the TMR is set to audio ,the Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available).  • Interworking indicator = ('1') interworking encountered.  • End-to-end information indicator = ('0') no end-to-end information available.  • ISDN user part/BICC indicator = ('0') ISDN user part/BICC not used all the way.  • ISDN access indicator = ('0') originating access non-ISDN.  • SCCP method indicator = ('00') no indication.				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test ro	ISUP → IAM  outine		

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 PICS 6.2.1/6			
Test Purpose name	Forward Call indicator - 64 kBit/s no PSTN XML attachment	present		
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the TMR 64 kBit/s has no impact of the coding of the Forward call indicator. The Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available).  • Interworking indicator = ('1') interworking encountered.			
	<ul> <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> <li>SCCP method indicator = ('00') no indication.</li> </ul>			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg MGCF	ISUP		
	INVITE → → 100 Trying ←	IAM		
	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	NOT PICS 6.2.1/5 AND PICS					
Test Purpose name	Forward Call indicator - 64 kBi	t/s no PSTN XML attachment	present			
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the TMR 64 kBit/s has impact of the coding of the Forward call indicator, the Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available).  • Interworking indicator = ('0') no interworking encountered.  • End-to-end information indicator = ('0') no end-to-end information available.  • ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way.  • ISDN access indicator = ('1') originating access ISDN.					
IOUD D	SCCP method indicator = ('00') no indication.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	INVITE →	INVITE → 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 PSTN XML Pi 6 attachment present			
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> <li>ISDN access indicator = ('1') originating access ISDN.</li> </ul>			
	SCCP method indicator =	= ('00') no indication.		
ISUP Parameter values	IAM: Forward call indicator			
SIP Parameter values	INVITE: PSTM XML MIME body xml version="1.0" encoding PSTN ProgressIndicator ProgressOctet3 CodingStandard 0 Location>yyyy< ProgressOctet4 ProgressDescription	0<		
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_o	of_IAM/		
Selection criteria				
Test Purpose name	Mapping of calling party categor	ory		
Test Purpose	Ensure that a cpc parameter SIP_CPC received in the P-Asserted-Identity URI parameter and the "language" in the Accept-Language SIP_LANG header is mapped into the calling party parameter category ISUP_CPC in the sent IAM. The mapping is described in table 6.1.1.1-1.			
ISUP Parameter values	IAM: Calling Party Category =	ISUP_CPC		
SIP Parameter values	<b>INVITE:</b> P-Asserted-Identity =	PARAM, Accept-Language =	SIP_LANG	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	100 Trying ←			
		Apply post test routine		

Table 6.1.1.1-1: Coding of calling party category

	Values for test purposes TP101032			
	SIP_CPC		ISUP_CPC	
	cpc received in a P-Asserted-Identity PARAM	Accept-Language SIP_LANG	Sent Calling party's category	
VA_01	operator	fr	operator, language French	
VA_02	operator	en	operator, language English	
VA_03	operator	de	operator, language German	
VA_04	operator	ru	operator, language Russian	
VA_05	operator	es	operator, language Spanish	
VA_06	ordinary		ordinary calling subscriber	
VA_07	test		test call	
VA_08	payphone		payphone	
VA_09	mobile-hplmn		mobile terminal located in the home PLMN	
VA_10	mobile-vplmn		mobile terminal located in a visited PLMN	
VA_11	unknown		calling party's category unknown at this time	

TP number	TP_101_023A	Reference	7.2.3.1.2.4	
TSS reference	SIP-ISUP/Basic call/Sending_	of_IAM/		
Selection criteria	PICS 6.2.1/24			
Test Purpose name	Mapping of calling party category	ory		
Test Purpose	Ensure that a cpc parameter value 'emergency' received in the P-Asserted-Identity URI parameter is mapped into the calling party parameter category 'emergency service call per ANSI Standard' in the sent IAM.			
ISUP Parameter values	IAM: Calling Party Category =	emergency service call per Al	NSI Standard	
SIP Parameter values	INVITE: P-Asserted-Identity cpc= emergency			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	<b>→</b>	IAM	
	100 Trying ←			
	Apply post test routine			

TP number	TP_101_024	Reference	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/				
Selection criteria	PICS 6.2.4/8					
Test Purpose name	G.711 µ-law Coding o	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 PCMU.				
ISUP Parameter values	IAM: TMR 3,1 kHz audio					
SIP Parameter values	INVITE: SDP m=audio <port #=""></port>	INVITE:				
Comments	'					
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test	ISUP → IAM routine			

TP number	TP_101_024A	Reference	7.2.3.1.2.5		
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/			
Selection criteria	PICS 6.2.4/8 AND PI	CS 6.2.4/9			
Test Purpose name	G.711 µ-law Coding of	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 PCMU.			
ISUP Parameter values	IAM: TMR 3,1 kHz audio	TMR			
SIP Parameter values	INVITE: SDP m=audio <port #=""></port>	INVITE:			
Comments					
Message flows	Mg INVITE 100 Trying	MGCF  → ← Apply post test re	ISUP → IAM  outine		

TP number	TP_101_025	Reference	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/Sending_	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	TMR				
SIP Parameter values	INVITE: SDP m=audio <port #=""> RTP/AV a=rtpmap:8 PCMA/8000</port>	P 8				
Comments						
Message flows	Mg INVITE → 100 Trying ←	•	ISUP IAM			
		Apply post test routine				

TP number	TP 101 025A	Reference	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/Send	ding_of_IAM/	1			
Selection criteria	PICS 6.2.4/5 AND PICS	6.2.4/9				
Test Purpose name	G.711 A-law Coding of T	MR				
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:	IAM:				
	TMR	TMR				
	3,1 kHz audio	3,1 kHz audio				
SIP Parameter values		INVITE:				
	=	SDP				
	m=audio <port #=""> RTP/AVP <dynamic-pt></dynamic-pt></port>					
	a=rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → IAM					
	100 Trying ←					
	Apply post test routine					

TP number	TP_101_026	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 TMR					
Test Purpose	Ensure that an IAM is sent after	er an INVITE request wa	s received. The Transmission			
	Medium Requirement paramet	er in the IAM is set to '6	4 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/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 rout	ine			

TP number	TP_101_027	Refere	nce	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/S	Sending_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 after an INVITE request was received. The Transmission Medium Requirement parameter in the IAM is set to '3,1 kHz audio' derived from the T.38 codec.			
ISUP Parameter values	IAM:				
	TMR 3,1 kHz audio				
SIP Parameter values	INVITE: SDP				
	m=image <port #=""> a=[Based on ITU- m=audio <port #=""></port></port>	T T.38 [4]	t38		
Comments					
Message flows	Mg INVITE 100 Trying	<b>→</b>	MGCF	ISUP → IAM	
	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 an INVITE request was received. The User service Information parameter in the IAM if present is set to 'Unrestricted digital information' or 'Unrestricted digital inf. w/tones/ann' if the first stated codec was set to CLEARMODE.					
ISUP Parameter values	IAM:					
	USI					
	Information Transport C	Information Transport Capability				
	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> CLEARMODE/8000</dynamic-pt>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	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	of IAM/				
Selection criteria	PICS 6.2.4/6	- <del>-</del>				
Test Purpose name	Fax T.38 Coding of USI					
Test Purpose		er an INVITE request was rece				
	Information parameter in the I.	AM if present is set to '3,1 kHz	audio' if the first stated			
	codec was set to T.38.					
ISUP Parameter values	IAM:					
	USI	USI				
	Information Transport Capability					
	3,1 kHz audio	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]]					
	m=audio <port #=""> RTP/AVP G.711</port>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	INVITE → IAM				
	100 Trying ←	100 Trying ←				
		Apply post test routine				

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_	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 Characteristics Identification Facsímile Group 2/3				
SIP Parameter values	INVITE: SDP m=image 4 <port #=""> udptl a=[Based on ITU-T T.38 [a m=audio <port #=""> RTP/AV</port></port>	1]]			
Comments					
Message flows	Mg INVITE		ISUP IAM		
	100 Trying	Apply post test routine			

#### Table 6.1.1.1-4: Coding of HLC

HLC_VA		m= line		a= line	HLC parameter (optional)
	<media></media>	<transport></transport>	<fmt-list></fmt-list>	rtpmap: <dynamic-pt> <encoding name=""> <clock rate="">[<encoding parameters="">]</encoding></clock></encoding></dynamic-pt>	High Layer Characteristics Identification
VA_01	image	Udptl	t38	Based on 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/Sending_of_IAM/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML HighL	averCompatibility				
Test Purpose	Ensure that on receipt of a PS		VITE request containing o			
rest Fulpose	HighLayerCompatibility eleme					
	Compatibility IE present in an					
IOUD D	Characteristics value is derive	a from the PSTN XIVILHIGHL	ayerCharacteristics element.			
ISUP Parameter values	IAM:					
	ATP High Layer Compatibility					
	High Layer Characteris	stics>HLC_value				
SIP Parameter values	INVITE:					
	PSTN XML MIME body					
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100-	<				
	PresentationMetho	d>01<				
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments						
Message flows	Mg	MGCF	ISUP			
_	INVITE	·	IAM			
	100 Trying <b>€</b>	_				
		Apply post test routine				

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

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

TP number	TP 101 032	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 Lo	Mapping of PSTN XML LowLayerCompatibility		
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 Compatib InformationTransfe	ility rCapability= <b>ITC_VA</b>		
SIP Parameter values	LLOctet4> TransferMode>	d>00< d>ferCapability>ITC_VA<		
Comments				
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test ro	ISUP → IAM	

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 Bear	erCapability into TMR and US	SI
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	USI Information Transfer	Capability= <b>ITC_value</b>	
SIP Parameter values	<pre><?xml version="1.0" encodir PSTN     BearerCapability     BCoctet3     CodingStandard></pre>	ng="utf-8"?>  00< PerCapability>ITC_value< PerRate>10000< Pon>01<	
Comments			10115
Message flows		MGCF  →  Apply post test routine	ISUP IAM

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/Sending_of_IAM/				
Selection criteria	PICS 6.2.1/5AND PICS 6.2.1/7				
Test Purpose name	Mapping of PSTN XML	Mapping of PSTN XML HighLayerCompatibility into User Teleservice Information			
	parameter				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a				
			napped into a User Teleservice		
			cs value is derived from the PSTN		
	XML HighLayerCharact	teristics element.			
ISUP Parameter values	IAM:				
	UTI				
		racteristics>HLC_value			
SIP Parameter values INVITE:					
	PSTN XML MIME body				
	xml version="1.0" en</th <th>coding="utf-8"?&gt;</th> <th></th>	coding="utf-8"?>			
	PSTN				
	HighLayerCompatib	ility			
	HLOctet3				
	CodingStand				
	Interpretation				
	Presentation	Method>01<			
	HLOctet4				
	HighLayerCh	naracteristics>HLC_value<			
Comments					
Message flows	Mg MGCF ISUP				
	INVITE	<b>→</b>	→ IAM		
	100 Trying ←				
	Apply post test routine				

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

HLC_value	XML HighLayerCharacteristic	DSS1 High layer characteristics identification
HLC_VA_1	'0000001'	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 call/Sending_of_IAM/			
Selection criteria		CS 6.2.4/1 AND PICS 6.2.4/7		
Test Purpose name	Fall Back connection			
Test Purpose	Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME body:			
	<ul> <li>The first stated codec in the SDP m line is the equivalent to the second BearerCapability element, the BearerCapability element is mapped into the User Service prime (USI prime) parameter in the sent IAM, the TMR is set according the second PSTN XML InformationTransferCapability value.</li> <li>The second stated codec in the SDP m line is the equivalent to the first BearerCapability element, the BearerCapability element is mapped into the User Service Information (USI) parameter in the sent IAM, the TMR prime is set according</li> </ul>			
		ML InformationTransferCapabi		
ISUP Parameter values	IAM:	•	•	
		ationTransferCapability		
		rmationTransferCapability		
	USI = first BearerCap			
	USI prime = second BearerCapability			
SIP Parameter values	INVITE:	DTD/AVD I : DT 0/0		
		RTP/AVP <dynamic-pt> 8/0 nic-PT&gt; CLEARMODE/8000</dynamic-pt>		
	PSTN XML MIME boo	iv		
	xml version="1.0" e</th <th></th> <th></th>			
	BearerCapability			
	BCoctet3			
	CodingStar	ndard>00<		
	Information	TransferCapability>00000<		
	or			
	Information	TransferCapability>10000<		
	BearerCapability			
	BCoctet3			
	CodingStar			
	Information	TransferCapability>10001<		
Comments	SDP: m line contains	as the first codec CLEARMOD	DE 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 PICS 6.2.4/1 AND NOT PICS 6.2.4/7			
Test Purpose name	Fall Back connection type is not sent			
Test Purpose	<ul> <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.</li> <li>The second stated codec in the SDP m line is the equivalent to the first BearerCapability element, the BearerCapability.</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 not present.			
ISUP Parameter values	IAM: TMR = first InformationTransferCapability TMR prime = is not present USI = speech or audio 3,1 kHz USI prime = not present			
SIP Parameter values	INVITE: SDP			
	m=audio <port #=""> RTP/AVP <dynamic-pt> 8/0 a=rtpmap: <dynamic-pt> CLEARMODE/8000  PSTN XML MIME body <?xml version="1.0" encoding="utf-8"?> PSTN  BearerCapability  BCoctet3  CodingStandard&gt;00&lt; InformationTransferCapability&gt;00000&lt; or InformationTransferCapability&gt;10000   BearerCapability BCoctet3 CodingStandard&gt;00   InformationTransferCapability&gt;10000   BearerCapability BCoctet3 CodingStandard&gt;00   InformationTransferCapability&gt;10001</dynamic-pt></dynamic-pt></port>			
Comments	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 MGCF ISUP INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP_101_037	Reference	7.2.3.1.2.9
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria	PICS 6.2.1/8		
Test Purpose name	Max-Forwards received, HOP	is sent	
Test Purpose	Ensure that on receipt of the Max-Forwards header, the value is mapped into the Hop counter. The value of the HOP is created from the Max-Forwards header value by applying a given factor.		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE → 100 Trying ←	<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/Sending_of_IAM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progre	essIndicator		
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a ProgressIndicator element, this information is mapped into a Progress Indicator IE present in an ISUP Access Transport Parameter the Progress description value is derived from the PSTN XML ProgressDescription element.			
ISUP Parameter values	IAM:			
	ATP Progress Indicator			
	Progress Description=I	PI_value		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00<			
	Location>0000<			
	ProgressOctet4			
	ProgressDescriptio	n> <b>PI_value</b> <		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←	•		
	, ,	Apply post test routine		

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

PI_value	XML ProgressIndicator ProgressDescription	ATP Progress Indicator value	
PI_VA_1	'000001'	Call is not end-to-end ISDN; further call progress information may be available in-band	
PI_VA_2	'000010'	Destination address is non-ISDN	
PI_VA_3	'000011'	Origination address is non-ISDN	
PI_VA_4	'0000100'	Call has returned to the ISDN	
PI_VA_5	'0000101'	Interworking has occurred and has resulted in a telecommunication service change	
PI VA 6	'0001000'	In-band information or an appropriate pattern is now available	

TP number	TP_101_039	Reference	7.2.3.1.2A.1.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.2.2/1			
Test Purpose name	Number Portability Separate Directory Number Addressing Method is used. A Called Directory Number is present in the sent IAM			
Test Purpose	in the request line, an  Nature of addreen umber format of network specific in the line in	I IAM is sent. The Called Part is indicator: "Network routing or "National (significant) number number format". It is indicator: ISDN (Telephony is derived from the user info of it is indicator: ISDN (Telephony is indicator "National (significator "National (significator: ISDN (Telephony is indicator: ISD	g number in national (significant) per" or "Network routing number in to internal network number not ) numbering plan ( <i>Recommendation</i> the request URI the country code is	
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 INVITE 100 Trying	MGCF  → ← Apply post test re	ISUP → IAM outine	

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	TP number	TD 404 040	Reference	7.2.3.1.2A.1.2			
Test Purpose name  Number Portability Concatenated Addressing Method is used. The called party number is present  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:  Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number".  Internal Network Number Indicator: routing to internal network number not allowed.  Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).  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.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi The URI parameters can be received in arbitrary order.  Mg MGCF ISUP  INVITE  → IAM</number></called>				[1.2.3.1.2A.1.2			
Test Purpose name    Number Portability Concatenated Addressing Method is used. The called party number is present   Test Purpose							
Test Purpose  Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters in the request line, an IAM is sent. The Called Party Number is set to:  Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number".  Internal Network Number Indicator: routing to internal network number not allowed.  Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).  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.  ISUP Parameter values  IAM:  Called party number  SIP Parameter values  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  The URI parameters can be received in arbitrary order.  Mg  MGCF  ISUP  INVITE  → IAM</number></called>			PICS 6.2.2/2				
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:  Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number".  Internal Network Number Indicator: routing to internal network number not allowed.  Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).  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.  ISUP Parameter values  IAM:  Called party number  SIP Parameter values  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  Mg  MGCF  ISUP  INVITE  ISUP</number></called>	Test Purpose name						
in the request line, an IAM is sent. The Called Party Number is set to:  Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number".  Internal Network Number Indicator: routing to internal network number not allowed.  Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).  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.  ISUP Parameter values  IAM: Called party number  SIP Parameter values  INVITE: Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  Mg MGCF ISUP  INVITE  INVITE  INVITE  INVITE  INVITE  INVITE  INVITE</number></called>							
<ul> <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).</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> <li>ISUP Parameter values</li></ul>	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:					
directory number" or "National (significant) number".  • Internal Network Number Indicator: routing to internal network number not allowed.  • Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E. 164).  • 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.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
<ul> <li>Internal Network Number Indicator: routing to internal network number not allowed.</li> <li>Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).</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> <li>ISUP Parameter values         <ul> <li>IAM:</li></ul></li></ul>		Nature of address indicator: "Network routing number concatenated with called					
allowed.  Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).  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.  ISUP Parameter values  IAM: Called party number  INVITE: Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Mg MGCF ISUP  INVITE  A IAM</number></called>		<ul> <li>Internal Network Number Indicator: routing to internal network number not allowed.</li> <li>Numbering plan Indicator: ISDN (Telephony) numbering plan (<i>Recommendation E.164</i>).</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</li> </ul>					
Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).     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.  ISUP Parameter values  IAM:  Called party number  SIP Parameter values  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
E.164).  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.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
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.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
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.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Message flows  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
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.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Message flows  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
digits applied unchanged. The called party number derived from the user info is appended except the country code.  ISUP Parameter values  IAM:  Called party number  INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Message flows  Mg  MGCF  ISUP  INVITE  → IAM</number></called>							
appended except the country code.  ISUP Parameter values  IAM: Called party number  SIP Parameter values  INVITE: Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi  Comments  The URI parameters can be received in arbitrary order.  Message flows  Mg MGCF ISUP  INVITE  → IAM</number></called>							
ISUP Parameter values       IAM:							
SIP Parameter values       INVITE:	ISUP Parameter values						
SIP Parameter values    INVITE: Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi   Comments   The URI parameters can be received in arbitrary order.   Message flows   Mg   MGCF   ISUP     INVITE   → IAM   IAM  </number></called>		Called party number					
Comments       The URI parameters can be received in arbitrary order.         Message flows       Mg       MGCF       ISUP         INVITE       →       IAM	SIP Parameter values	ues INVITE:					
Comments       The URI parameters can be received in arbitrary order.         Message flows       Mg       MGCF       ISUP         INVITE       →       IAM							
Message flows Mg MGCF ISUP  INVITE → IAM	Comments						
INVITE → IAM	Message flows						
			<b>→</b>	→ IAM			
		100 Trying					
		Apply post test routine					

TP number	TP_101_041 Ref	erence	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 Addressing Method is used. A					
	Network Routing Number is present 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:					
	<ul> <li>Nature of address indicator:</li> </ul>					
	Internal Network Number Indicator: routing to internal network number not					
	allowed.					
	Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).					
	• Address Signal: derived from the user info of the request URI the country code is					
	removed.					
	The Network Routing Number is set to:					
	Nature of address indicator: "Network routing number in national (significant)					
	number format" <b>or</b> "Network routing number in network specific number format".					
	Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164).					
	Address Signal: derived from the rn parameter if the Number Portability Routing					
	Number contains an E164 number the country code is removed else the address					
	digits applied unchanged.					
ISUP Parameter values	IAM:					
	Called party number, Network Routing Number					
SIP Parameter values	INVITE:					
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>					
Comments	The URI parameters can be received	•				
Message flows	Mg	MGCF	ISUP			
	INVITE ->	<b>→</b>	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_	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.2.2/1 OR PICS 6.2.2/2	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	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:					
SIP Parameter values	Number Portability Forward Information  INVITE:  Request URI: sip: <called number="">; npdi</called>					
Comments		•				
Message flows	Mg INVITE → 100 Trying ←	<u>-</u>	ISUP IAM			

TP number	TP_101_043	Reference	7.2.3.1.2A.2		
TSS reference	SIP-ISUP/Basic call/Sending_	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	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> 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:	I			
	Number Portability Forward	d Information			
SIP Parameter values		INVITE:  Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>			
Comments					
Message flows	Mg INVITE → 100 Trying ←	<del>-</del>	ISUP IAM		
		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	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	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 MGCF ISUP				
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	Apply post test routine				

TP number	TP_101_045	Reference	7.2.3.1.2B.1		
TSS reference	SIP-ISUP/Basic call/Ser	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 parame	eter is mapped into IAM TN	IS parameter		
Test Purpose	<ul> <li>Ensure that on receipt of an initial INVITE request containing the cic parameter in the request line, an IAM is sent. The Transit network selection parameter is set to:</li> <li>Type of network identification: CCITT-standardized identification or national network identification.</li> <li>Network identification plan: according value of Type of network identification.</li> <li>Network identification: digits derived from the carrier identification code value of the cic parameter.</li> </ul>				
ISUP Parameter values	IAM: Transit network sele	ction			
SIP Parameter values	INVITE:  Request URI: sip: <0	called number>; cic=< Carı	ier identification code >		
Comments					
Message flows	Mg INVITE 100 Trying	MGCF  →  ← Apply post test r	ISUP → IAM  routine		

TP number	TP_101_046	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 heade	r is sent in the Location para	meter in the IAM		
Test Purpose	Ensure when an INVITE reque	est is received and a P-Acces	ss-Network-Info header is		
	present, an IAM is sent and th	e Location number paramete	r is present.		
	<ul> <li>The Nature of address inc</li> </ul>	dicator is copied from bit 7 to	1 of octet 1 of the gstn-location		
	field.				
	<ul> <li>The Numbering plan is co</li> </ul>	pied from bit 7 to 5 of octet 2	of the gstn-location field.		
	<ul> <li>The Address signals are of</li> </ul>	copied from octet 3 to n of the	e gstn-location field.		
ISUP Parameter values	IAM:				
	Location number				
	Nature of address indic	ator			
	Copied from bit 7 to	o 1 of octet 1 of the binary rep	presentation of the		
	gstn-location field				
	Numbering plan indicate				
	Copied from bit 7 to 5 of octet 2 of the binary representation of the				
	gstn-location field				
	Address signals				
		to n of the binary representa	ation of the gstn-location field		
SIP Parameter values	INVITE:				
_	P-Access-Network-Info: gs	stn-location="[location information information information]	ation in binary representation]"		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE ->		IAM		
	100 Trying ←	1			
		Apply post test routine			

TP number	TP_101_047	Reference	7.2.3.1.2	2 1 1		
		SIP-ISUP/Basic call/Sending_of_IAM/				
TSS reference	SIP-ISUP/Bas	sic call/Sending_of_IAM/				
Selection criteria						
Test Purpose name	P-Access-Net	P-Access-Network-Info header is sent in the Location parameter in the IAM no Privacy				
	header preser		•	•		
Test Purpose	Ensure when	an INVITE request is received	and a P-Access-Network-	Info header is		
_	present, an IA	M is sent and the Location nur	nber parameter is present			
	·	ess presentation restriction ind				
		ocation field.				
ISUP Parameter values	IAM:	ocation nota.				
loor randingtor values	Location n	umbor				
			ata.			
		Address presentation restriction indicator				
	Copied from bit 4 and 3 of octet 2 of the binary representation of the					
		gstn-location field				
SIP Parameter values	INVITE:					
	P-Access-	Network-Info: gstn-location="[location="[location="]	ocation information in bina	ry representation]"		
Comments		<u>-</u>				
Message flows	Mg	MGCF		ISUP		
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
	Apply post test routine					

TP number	TP_101_048	Reference	7.2.3.1.2.11			
TSS reference	SIP-ISUP/Basic call/Sending_	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria						
Test Purpose name	P-Access-Network-Info heade header set to header	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 restriction indicator Presentation restricted					
SIP Parameter values	INVITE: P-Access-Network-Info: gstn-location="[location information in binary representation]" Privacy: header					
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/S	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria						
Test Purpose name	P-Access-Network-Infethe IAM	o header 'np' parameter pre	sent is sent in the Location parameter in			
Test Purpose	<ul><li>present, an IAM is ser</li><li>The Screening inc</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 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	c-Info: gstn-location="[location	n information]";network-provided			
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM			
	Apply post test routine					

TP number	TP_101_050	Reference	7.2.3.1.2.11			
TSS reference	SIP-ISUP/Basic call/Se	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria						
Test Purpose name	P-Access-Network-Info parameter in the IAM	P-Access-Network-Info header no 'np' parameter present is sent in the Location parameter in the IAM				
Test Purpose	present, an IAM is sen	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 from	IAM:				
SIP Parameter values	INVITE: P-Access-Network-	INVITE: P-Access-Network-Info: gstn-location="[location information]"				
Comments		<u> </u>	•			
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test ro	ISUP → IAM  Dutine			

## 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:			
	The requested preconditions (if any) in the IMS network have been met.			
	A possible outstanding continuity check procedure is successfully performed on the			
	outgoing circuit.			
ISUP Parameter values	IAM: Nature of connection indicator = "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 optional remote sendrecv			
	183: Require: 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos optional local sendrecv			
	a=des:qos mandatory remote sendrecv			
	a=conf:qos 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 optional remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv			
	a=curr:qos remote sendrecv			
	a=des:qos optional local sendrecv			
Commonto	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			
TSS reference	SIP-ISUP/Basic call/Sending_of_COT/			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4			
Test Purpose name	Sending of BICC COT			
Test Purpose	If the IAM has already been sent, the Continuity message shall be sent indicating			
	"continuity check successful", when all of the following conditions have been met:			
	<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 = "COT to be expected"			
OID 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 optional remote sendrecv			
	183: Require: 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos optional local sendrecv			
	a=des:qos mandatory remote sendrecv			
	a=conf:gos remote sendrecv			
	'			
	UPDATE:			
	SDP a=curr:qos local sendrecv			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos optional remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:gos local sendrecv			
	a=curr:qos remote sendrecv			
	a=des:gos optional 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/Sending_of_SAM/				
Selection criteria	PICS 6.2.3/1	11g_01_0/ ((V))			
Test Purpose name	Receipt of INFO request, s	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 in in-dialogue SIP INFO requests.				
ISUP Parameter values	<u> </u>		•		
SIP Parameter values	INVITE: INFO: Content-Type: applicat SubsequentDigit: <add< th=""><th></th><th></th><th></th></add<>				
Comments					
Message flows	Mg INVITE(1) 484 Address Incomplete ACK	MG( → ← →	CF	ISUP	
	INVITE(2) 183 Session Progress	<b>→</b>	<b>→</b>	IAM	
	INFO 200 OK (INFO)	→ ← Apply post t	est routine	SAM	

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 red	quest, sending of SAM				
Test Purpose	After the ISUP IAM message	has been sent the I-MGCF red	eives a	additional digits. The		
	additional digits are received in multiple SIP INVITE requests.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE(1)	<b>→</b>	<b>→</b>	IAM		
	CASE A					
	INVITE(2)	<b>→</b>	<b>→</b>	SAM		
	484 Address Incomplete(1)	<b>←</b>				
	ACK	<b>→</b>				
	INVITE(3)	<b>→</b>	<b>→</b>	SAM		
	484 Address Incomplete(2)	<b>←</b>				
	ACK	<b>→</b>				
	180 Ringing(3)	<b>←</b>	<b>←</b>	ACM		
	CASE B					
	484 Address Incomplete(1)	<b>←</b>				
	ACK	<b>→</b>				
	INVITE(2)	<b>→</b>	<b>→</b>	SAM		
	484 Address Incomplete(2)	<b>←</b>				
	ACK	<b>→</b>				
	INVITE(3)	<b>→</b>	<b>→</b>	SAM		
	180 Ringing(3)	<b>←</b>	<b>←</b>	ACM		
		Apply post test routine				

TP number	TP_103_003	Reference	7.2.3.1.3A.3
TSS reference	SIP-ISUP/Basic call/Sending_o	of_SAM/	
Selection criteria	PICS 6.2.3/2		
Test Purpose name	Receipt of multiple INVITE req	uest, unsuccessful	
Test Purpose	After the ISUP IAM message h		
	additional digits are received in		
	contained in the Request line i		
	for the communication, then th		
	response for this INVITE. In th	is case, no SAM shall be sent	to BICC/ISUP procedures.
ISUP Parameter values			
SIP Parameter values			
Comments			10115
Message flows	Mg	MGCF	ISUP
	INVITE(1)	<b>→</b>	→ IAM
	CASE A	•	
	INVITE(2)	<b>→</b>	
	484 Address Incomplete(1)	<del>&lt;</del>	
	ACK	<b>→</b>	
	CASE B		
	·	_	
	484 Address Incomplete(1)	<b>←</b> →	
	ACK	7	
	INVITE(2)	<b>→</b>	
	484 Address Incomplete(2)	<del>-</del>	
	ACK	<b>→</b>	
		•	
		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	ACM was received					
Test Purpose	The SUT shall send the SIP 180 Ringing when receiving the following messages: - ACM with Called party's status indicator set to subscriber free.						
ISUP Parameter values	ACM: BCI Called party statu	s indicator = subscriber free					
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	IAM				
	100 Trying	←					
	180 Ringing						
		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 - CPG with Event indicator	180 Ringing when receiving the set to ALERTING.	e following messages:
ISUP Parameter values	ACM: BCI Called party status CPG: Event indicator = ALEF		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
_		<b>→</b>	IAM
		<b>+</b>	ACM(no indication)
	180 Ringing	← Apply post test routine	CPG(ALERTING)
		Apply post test routine	

TP number	TP_104_003	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending_	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/23					
Test Purpose name	ACM received, P-Earl-Media h	neader present in 180				
Test Purpose	Ensure that on receipt of an A	CM free a 180 Ringing is sen	t. In the 180 Ringing a			
	P-Early-Media header is prese	ent indicating authorization of	early media			
ISUP Parameter values	IAM: 3,1 kHz audio					
	<b>ACM:</b> BCI Called party status	ACM: BCI Called party status indicator = free				
SIP Parameter values	INVITE:	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			
	180 Ringing	<b>+</b>	ACM(free)			
		Apply post test routine				

TP number	TP_104_004	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/S	Sending_of_18x/				
Selection criteria	PICS 6.2.1/10	-				
Test Purpose name	Provide media in a C	all-Info header field, or ar	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	ACM: BCI Called party status indicator = subscriber free				
SIP Parameter values	180: Call-Info: <media Alert-Info: <media< th=""><th></th><th></th></media<></media 					
Comments						
Message flows	Mg INVITE 100 Trying 180 Ringing	MGCI → ← ← Apply post te	→ IAM ← ACM			

TP number	TP_104_005	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/Sending_	of_18x/				
Selection criteria	PICS 6.2.1/10					
Test Purpose name	Provide media in a Call-Info h	eader field, or an Alert-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	<b>ACM:</b> 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 ←	-	ISUP  → IAM  ← ACM(no indication)			

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 Indicato	r 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 <b>180 Ringing</b> is sent. The Progress Indicator IE contained in the ACM or CPG ATP parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2.  • Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value.  • Progress Indicator received in a CPG Event indicator ALERTING 180 Ringing is sent				
	in the PSTN XML elemen	nt contains the ProgressIndic	ator value PL value		
ISUP Parameter values	in the PSTN XML element contains the ProgressIndicator value PI_value.  CASE A  ACM: BCi Called party status = subscriber free ATP contains a Progress Indicator IE  CASE B  ACM: BCi Called party status = no indication				
SIP Parameter values	CPG: ATP contains a Progre	ess maicator ie			
Comments	P-Early-Media: supported  180: xml version="1.0" encoding PSTN ProgressIndicator ProgressOctet3 CodingStandard 0 Location <yyyy> ProgressOctet4 ProgressDescription</yyyy>	0<			
Message flows	Ma	MGCF	ISUP		
wessage nows	Mg INVITE = =				
	180 Ringing CASE B	- ←	- ACM		
	183 Session Progress	<del>-</del>	- ACM		
	180 Ringing	<del>-</del>	· CPG		
		Apply post test routine			

TP number	TP_104_007	Reference	7.2.3.1.4			
T00	010 10110/0 : 11/0 !:	1.10.7	Table 7a.0f			
TSS reference		SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name Test Purpose		atibility received in an ACM/CPC				
rest Furpose	Ensure that on receipt of an ACM called party status subscriber free or CPG event indicator ALERTING, a <b>180 Ringing</b> is sent. The High layer compatibility IE contained in the ACM or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3.					
	Ringing is sent in the PS HLC_value.	received in an ACM called party STN XML element contains the I	HighLayerCompatibility value			
		received in a CPG Event indicat lement contains the HighLayer0				
ISUP Parameter values	CASE A					
	ACM: BCi Called party statu Indicator IE	s = subscriber free ATP contair	ns a Progress			
	CASE B					
	ACM: BCi Called party statu	s = no indication				
	CPG: ATP contains a High I	ayer compatibility IE				
SIP Parameter values	INVITE: P-Early-Media: supported	ı				
	180: xml version="1.0" encodin PSTN HighLayerCompatibility HLOctet3 CodingStandard ( Interpretation>100 PresentationMethor	00< )<				
Comments						
Message flows	Mg INVITE	MGCF → →	ISUP IAM			
	CASE A 180 Ringing	<b>←</b> ←	ACM			
	3	<del>(</del>	ACM CPG			
		Apply post test routine				

TSS reference  SIP-ISUP/Basic call/Sending_of_18x/  PICS 6.2.1/5  Test Purpose name  Mapping of Low layer compatibility 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 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 element contains the LowLayerCompatibility value ITC_value  ISUP Parameter values  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low laye compatibility IE			Reference	7.2.3.1.4		
PICS 6.2.1/5				Table 7a.0f		
Test Purpose name  Mapping of Low layer compatibility 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 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 element contains the LowLayerCompatibility value ITC_value ITC_value.  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low layer.		SIP-ISUP/Basic call/Sending_of_18x/				
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 element contains the LowLayerCompatibility value ITC_value ITC_value.  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low layer.		I .				
indicator ALERTING, a <b>180 Ringing</b> 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 element contains the LowLayerCompatibility value ITC_value  ISUP Parameter values  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low layer						
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 element contains the LowLayerCompatibility value ITC_value ISUP Parameter values  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low layer.	Test Purpose					
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 element contains the LowLayerCompatibility value ITC_valu  ISUP Parameter values  CASE A ACM: CASE A BCi Called party status = subscriber free ATP contains a Low laye						
<ul> <li>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.</li> <li>Low layer compatibility received in a CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the LowLayerCompatibility value ITC_value</li> <li>ISUP Parameter values</li> <li>CASE A         ACM: CASE A         BCi Called party status = subscriber free ATP contains a Low layer</li> </ul>						
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 element contains the LowLayerCompatibility value ITC_value  ISUP Parameter values  CASE A ACM: CASE A BCi Called party status = subscriber free ATP contains a Low laye						
ITC_value.  • Low layer compatibility received in a CPG Event indicator ALERTING 180 Ringing i sent in the PSTN XML element contains the LowLayerCompatibility value ITC_valu  ISUP Parameter values  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low laye						
sent in the PSTN XML element contains the LowLayerCompatibility value ITC_valu  ISUP Parameter values  CASE A  ACM: CASE A  BCi Called party status = subscriber free ATP contains a Low laye			TN XIVIL element contains the	e LowLayerCompatibility value		
ACM: CASE A BCi Called party status = subscriber free ATP contains a Low laye						
The second secon	ISUP Parameter values	CASE A	•			
Companionity IE				free ATP contains a Low layer		
CASE B						
<b>ACM</b> : BCi Called party status = no indication		ACM: BCi Called party status	s = no indication			
CPG: ATP contains a Low layer compatibility IE			yer compatibility IE			
	SIP Parameter values	INVITE:				
P-Early-Media: supported		P-Early-Media: supported				
400.		400.				
		180: xml version="1.0" encoding="utf-8"?				
		PSTN				
		LowLayerCompatibility>				
LLOctet3>						
		CodingStandard>00<				
InformationTransferCapability>ITC_value<						
LLOctet4>		· · ·				
TransferMode>00<		TransferMode>00<	<			
InformationTransferRate>10000<		InformationTransfe	rRate>10000<			
Comments						
Message flows Mg MGCF ISUP	Message flows	_				
INVITE → IAM		INVITE	<b>→</b>	IAM		
CASE A		CASE A				
180 Ringing ← ← ACM		180 Ringing	<del>'</del>	- ACM		
CASE C		CASE C				
183 Session Progress ← ← ACM		183 Session Progress	<del>-</del>	- ACM		
180 Ringing ← ← CPG			<del>-</del>	• CPG		
Apply post test routine			Apply post test routine			

TP number	TP_104_009	Reference	7.2.3.1.4			
T00 (	Table 7a.0f					
TSS reference	SIP-ISUP/Basic call/Sending_o	ot_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Bearer Capability r	eceived in an ACM/CPG				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or CPG event indicator ALERTING, a <b>180 Ringing</b> is sent. The Bearer Capability IE contained in the					
	ACM or CPG ATP parameter is mapped into the Bearer Capability PSTN XML element in					
	the 180 as indicated in table 6.1.1.4-5.					
	Bearer Capability received in an ACM called party status subscriber free 180 Ringing					
	is sent in the PSTN XML element contains the BearerCapability value ITC_value.					
	Bearer Capability received in a CPG Event indicator ALERTING 180 Ringing is sent					
		contains the BearerCapability				
ISUP Parameter values	CASE A	•				
	<b>ACM:</b> BCi Called party status	= subscriber free ATP contain	ns a Bearer			
	Capability IE					
	0405 B					
	CASE B	- no indication				
	<b>ACM</b> : BCi Called party status					
	CPG: ATP contains a Bearer	Capability IE				
SIP Parameter values	INVITE:					
	P-Early-Media: supported					
	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN RearerCanability					
	BearerCapability BCoctet3					
	CodingStandard>00					
		Capability> <b>ITC_value</b> <				
	BCoctet4					
	TransferMode>00<					
	InformationTransferRate>10000<					
	BCoctet5>					
	Layer1Identification					
Comments	UserInfoLayer1Prot	0001>00011<				
Message flows	Mg	MGCF	ISUP			
Message news	INVITE →		IAM			
		-				
	CASE A					
	180 Ringing ←	<b>←</b>	ACM			
	CASE C					
	183 Session Progress ←		ACM			
	180 Ringing ←	=	CPG			
		Apply post test routine				

TP number	TP_104_010	Reference	7.2.3.1.4			
			Table 7a.0g			
TSS reference	SIP-ISUP/Basic call/Sending_	of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Backward call indicate sent in 180	Ţ.				
Test Purpose	Ensure that on receipt of an ACM or CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a <b>180 Ringing</b> is sent. A PSTN XML ProgressIndicator element is present the value is set to No. 1 (Call is not end-to-end ISDN: "further progress information may be available in-band").					
ISUP Parameter values	ACM: BCI ISDN User Part indicator = ISDN User Part not used all the way  CPG: BCI ISDN User Part indicator = ISDN User Part not used all the way					
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<					
Comments						
Message flows	Mg INVITE → 100 Trying ← CASE A	MGCF →	ISUP IAM			
	180 Ringing ← ← ACM					
	CASE B  ← ACM (no indication)  180 Ringing ← CPG (Alerting)					
		Apply post test routine				

TP number	TP_104_011		Reference		7.2.3.1.4	
T00 (	OLD TOLID (D	. 11/0 1:	1.10./		Table 7a.0g	
TSS reference		sic call/Sending_c	ot_18x/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name		ackward call indic	ator into PSTN XM	L Progress	sIndicator element value 2	
	sent in 180					
Test Purpose					call indicator ISDN User Part	
			art used all the way			
					TN XML ProgressIndicator	
			set to No. 2 (Destin			
ISUP Parameter values	ACM: BCI		indicator = ISDN Us		,	
		ISDN access inc	licator = Terminatin	g access r	non-ISDN	
	CPG: BCI ISDN User Part indicator = ISDN User Part used all the way					
	ISDN access indicator = Terminating access non-ISDN					
SIP Parameter values	180 Ringing					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000010<					
Comments						
Message flows	l N	_	MGCF		ISUP	
	INVITE	→		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
	CASE A					
	180 Ringing	<b>←</b>		<b>←</b>	ACM	
	CASE B					
				<b>←</b>	ACM (no indication)	
	180 Ringing	<b>+</b>		<b>←</b>	CPG (Alerting)	
	l i i i i i i i i i i i i i i i i i i i		Apply post test i	outine	( 3)	
<u> </u>			p.p.y poor toot.			

TP number	TP_104_012		Reference		7.2.3.1.4	
					Table 7a.0g	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of B sent in 180	ackward call indic	cator into PSTN XML	Progress	sIndicator element value 7	
Test Purpose	Ensure that on receipt of an ACM or CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No. 7.					
ISUP Parameter values	ACM: BCI ISDN User Part indicator = ISDN User Part used all the way ISDN access indicator = Terminating access ISDN  CPG: BCI ISDN User Part indicator = ISDN User Part used all the way					
SIP Parameter values	ISDN access indicator = Terminating access ISDN  180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<					
Comments						
Message flows	INVITE 100 Trying CASE A	g → ←	MGCF	<b>→</b>	ISUP IAM	
	180 Ringing					

TP number	TP_104_013		Reference		7.2.3.1.4	
					Table 7a.0g	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of op value 8 sent in		call indicator into F	PSTN XML F	ProgressIndicator element	
Test Purpose	information in <b>Ringing</b> is se 8.	dicator in-band inf	ormation or an ap	propriate pa	ackward call indicator In-band attern is now available, a <b>180</b> present the value is set to No.	
ISUP Parameter values	ACM: oBCI					
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000<					
Comments						
Message flows	INVITE 100 Trying CASE A	g → ←	MGCF	<b>→</b>	ISUP IAM	
	180 Ringing  CASE B	+		<b>←</b>	ACM	
	180 Ringing	<b>+</b>	Apply post test	← ← routine	ACM (no indication) CPG (Alerting)	

TP number	TP_104_014				
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/1 AND NOT PICS 6.2.4/7				
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				
l cot i ai poso	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				
loor rarameter values	TMR Speech or 3,1 kHz audio				
SIP Parameter values	INVITE: PSTN XML MIME body				
on randinotor values	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>00000<				
	or				
	InformationTransferCapability>10000<				
	Illionnation randiologapusinty reserv				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>10001<				
	inioiniation ransioroapability 710001				
	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				
	11.71				

TP number	TP_104_015	Reference	7.2.3.1.4.0b			
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending of 18x/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	1 AND NOT PICS 6.2.4/7				
Test Purpose name	Receipt of TMU speech, no BC	present in ATP				
Test Purpose	ACM, a <b>180 Ringing</b> is sent ar	Ensure that on receipt of a Transmission medium used parameter set to speech in the ACM, a <b>180 Ringing</b> is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set to Speech.				
ISUP Parameter values	ACM: Transmission medium u	•				
SIP Parameter values	180 Ringing xml version="1.0" encoding= PSTN BearerCapability BCoctet3 CodingStandard 00 InformationTransfer	l <b>&lt;</b>				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → 100 Trying ← 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_of_18x/				
Selection criteria		CS 6.2.4/1 AND NOT PICS 6	.2.4/7			
Test Purpose name		Hz audio, no BC present in A	-			
Test Purpose	Ensure that on receip the ACM, a <b>180 Ring</b>	Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio in the ACM, a <b>180 Ringing</b> is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set to 3,1 kHz audio.				
ISUP Parameter values	ACM: Transmission n	nedium used = 3,1 kHz audio				
SIP Parameter values	180 Ringing xml version="1.0" e PSTN BearerCapability BCoctet3 CodingStal Informatior</th <th>Ü</th> <th></th>	Ü				
Comments						
Message flows	Mg INVITE 100 Trying 180 Ringing	MGCF	ISUP  → IAM  ← ACM outine			

TP number	TP_104_017	Reference	7.2.3.1.4.1.0b		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4	I/1 AND NOT PICS 6.2.4/8			
Test Purpose name	Receipt of TMU, BC present	n ATP PSTN XML BearerCapa	bility sent in 180		
Test Purpose	Ensure that on receipt of a Tr	ansmission medium used para	meter and in the ATP a		
	Bearer Capability IE in the AC	CM, a 180 Ringing is sent and	a PSTN XML		
	BearerCapability element is p	resent the InformationTransfer	Capability is set as indicated		
	in table 6.1.1.4-1.				
ISUP Parameter values	<b>ACM:</b> Transmission medium	used, ATP Bearer Capability IE			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	IAM		
	100 Trying	-			
	180 Ringing	÷	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 AND PICS 6.2.4	1/1 AND NOT PICS 6.2.4/7			
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 Tr	ansmission medium used para	meter and in the ATP a		
	Bearer Capability IE in the AC	CM, a 183 Session Progress is	sent and a PSTN XML		
	BearerCapability element is p	resent the Information Transfer	Capability is set as indicated		
	in table 6.1.1.4-1.				
ISUP Parameter values		used, ATP Bearer Capability II			
	BCi Called party statu	s = no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	100 Trying				
	183 Session Progress	÷ +	ACM		
		Apply post test routine			

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

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

TP number	TP_104_019	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/				
Selection criteria	NOT PICS 6.2.1/5 AND NOT F	PICS 6.2.1/23				
Test Purpose name	ACM no indication received, no	o SIP response is sent				
Test Purpose	Ensure that on receipt of an early ACM no SIP response is sent if the INVITE does not contain a P-Early-Media header.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	← ACM(no indication)					
	Apply post test routine					

TP number	TP_104_020	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/Sen	ding_of_18x/	•			
Selection criteria	PICS 6.2.1/23	•				
Test Purpose name	ACM received, P-Earl-M	edia header present in 183				
Test Purpose		Ensure that on receipt of an early ACM a 183 Session Progress is sent. In the 183 session Progress a P-Early-Media header is present indicating authorization of early				
ISUP Parameter values		IAM: Speech or 3,1 kHz audio ACM: BCI Called party status indicator = no indication				
SIP Parameter values	183 Session Progress	INVITE: P-Early-Media: supported				
Comments						
Message flows	Mg INVITE 183 Session Progress	MGCF →  Apply post test ro	ISUP  → IAM  ← ACM(no indication)			

TP number	TP_104_022	Reference	7.2.3.1.4A			
			Table 7.2.3.1.4A.1			
TSS reference	SIP-ISUP/Basic call/Sen	ding_of_18x/	•			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of optional Backelement value 8 sent in a		into PSTN XML ProgressIndicator			
Test Purpose	information indicator in-b	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	oBCI In-band in	ACM: BCi Called party status indicator = no indication oBCI In-band information indicator in-band information or an appropriate pattern is now available				
SIP Parameter values	183 Session Progress xml version="1.0" enc PSTN ProgressIndicator ProgressOctet4 ProgressDesc</td <td>oding="utf-8"?&gt; cription&gt;<b>0001000</b>&lt;</td> <td></td>	oding="utf-8"?> cription> <b>0001000</b> <				
Comments	_					
Message flows	Mg INVITE 183 Session Progress	MGCF  →  ←  Apply post test re	ISUP  → IAM ← ACM  outine			

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_	of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call indic	cator in ACM into PSTN XML	ProgressIndicator element		
	value 1 sent in a 183				
Test Purpose	Ensure that on receipt of an A	<b>CM</b> and the Backward call ind	icator ISDN User Part		
	indicator is set to ISDN User P				
	PSTN XML ProgressIndicator				
	to-end ISDN: "further progress				
ISUP Parameter values	ACM: BCI ISDN User Part inc		sed all the way		
	BCi Called party status	indicator = no indication			
SIP Parameter values	183 Session Progress				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	<u></u>				
	ProgressOctet4				
	ProgressDescription	1>000001<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	=	IAM		
	183 Session Progress ←	=	ACM		
	Apply post test routine				

TP number	TP_104_024	Reference	7.2.3.1.4A	
			Table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indic value 2 sent in a 183	cator in ACM into PSTN XML	ProgressIndicator element	
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	ACM: BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access non-ISDN BCi Called party status indicator = no indication			
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
Comments				
Message flows	Mg INVITE → 100 Trying ← 183 Session Progress ←	MGCF →  ← Apply post test routine	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_o	of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indicated value 7 sent in a 183	cator in ACM into PSTN XML	ProgressIndicator element	
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 ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No. 7.			
ISUP Parameter values	ACM: BCi ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access ISDN BCi Called party status indicator = no indication			
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
Comments				
Message flows	Mg INVITE → 100 Trying ← 183 Session Progress ←	MGCF  →  Apply post test routine	ISUP IAM ACM	

TP number	TP_104_026	Reference	7.2.3.1.4A			
	11 _101_020		Table 7.2.3.1.4A.2			
TSS reference	SIP-ISUP/Basic call/Sending of	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5	<u>-</u>				
Test Purpose name	Mapping of optional Backward	call indicator in CPG into PS7	TN XML ProgressIndicator			
-	element value 8 sent in a 183		5			
Test Purpose	Ensure that on receipt of a CP					
	information indicator in-band in					
	Session Progress is sent if no					
	ProgressIndicator element is p	resent the value is set to No.	8.			
ISUP Parameter values	<b>CPG:</b> Event indicator = Progre					
		tion indicator in-band informat	ion or an appropriate pattern			
	is now available					
SIP Parameter values	183 Session Progress	W 46 000				
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"'?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>0001000				
Comments	1 Togress Description	12001000				
Message flows	Mg	MGCF	ISUP			
	INVITE ->	<b>→</b>	IAM			
	Case A					
	18x <b>←</b>	<b>←</b>	ACM			
	183 Session Progress ← ← CPG					
	Case B					
	18x (P-Early-Media) ←	<b>←</b>	ACM			
	← CPG					
		Apply post test routine				

TP number	TP_104_027	Reference	7.2.3.1.4A			
			Table 7.2.3.1.4A.2			
TSS reference	SIP-ISUP/Basic call/Send	ing_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	•	indicator in CPG into PS	STN XML ProgressIndicator element			
	value 1 sent in a 183					
Test Purpose			I call indicator ISDN User Part indicator			
			3 Session Progress is sent if no P-			
			ProgressIndicator element is present			
		all is not end-to-end ISL	N: "further progress information may			
10115	be available in-band").					
ISUP Parameter values	<b>CPG:</b> Event indicator = P		<b>5</b>			
OID D		rt indicator = ISDN User	Part not used all the way			
SIP Parameter values	183 Session Progress					
	xml version="1.0" enco</th <th>ding="utt-8"?&gt;</th> <th></th>	ding="utt-8"?>				
	PSTN					
	ProgressIndicator					
	 Dan anns a O at a t 4					
	ProgressOctet4	inting: 0000001				
Comments	ProgressDescri	iption> <b>0000001</b> <				
Comments		MOOF	IOUD			
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	Case A	_				
	18x	<del>(</del>	← ACM			
	183 Session Progress ← CPG					
	Case B					
	18x (P-Early-Media)	<b>←</b>	← ACM			
	, , , , , , , , , , , , , , , , , , , ,		← CPG			
	Apply post test routine					

TP number	TP_104_028	Reference	7.2.3.1.4A			
			Table 7.2.3.1.4A.2			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Backward call ind	icator in CPG into PSTN XML	ProgressIndicator element			
	value 2 sent in a 183					
Test Purpose	Ensure that on receipt of a CI					
	Part indicator is set to ISDN U					
		N, a 183 Session Progress is a				
	header was sent before. A PS		lement is present the value is			
	set to No. 2 (Destination addr	ess is non-ISDN).				
ISUP Parameter values	ACM: BCi free					
	<b>CPG:</b> Event indicator = Prog					
		dicator = ISDN User Part use				
		ator = Terminating access no	n-ISDN			
SIP Parameter values	183 Session Progress	W . ( O W O				
	xml version="1.0" encoding</p	j="utt-8"?>				
	PSTN					
	Progressingicator	ProgressIndicator				
	Drogram Octot 4	 DrawaaaOatat4				
	ProgressOctet4 ProgressDescription>0000010<					
Comments	Trogressbescriptio	0112000010				
Message flows	Mg	MGCF	ISUP			
message nows	INVITE		IAM			
	Case A	•	17 (IVI			
	180 Ringing	-	ACM			
	183 Session Progress ← CPG					
	Case B					
	18x (P-Early-Media)		ACM			
	Tox (i -Larry-Media)	_	CPG			
	Apply post test routine					
[		Apply post test routille				

TP number	TP_104_029	Reference	7.2.3.1.4A		
			Table 7.2.3.1.4A.2		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call indivalue 7 sent in a 183	licator in CPG into PSTN XML	ProgressIndicator element		
Test Purpose	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 if no P-Early-Media header was sent before. A PSTN XML ProgressIndicator element is present the value is set to No. 7.				
ISUP Parameter values	ACM: BCi free CPG: Event indicator = Progress 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 INVITE Case A	MGCF →	ISUP IAM		
	180 Ringing	<del>-</del>	ACM		
	183 Session Progress	÷	CPG		
	Case B 18x (P-Early-Media)	÷	ACM CPG		
		Apply post test routine			

TP number	TP_104_030	Refere	nce	7.2.3.1.4A		
TSS reference	SIP-ISUP/Basic call/Send	ding_of_18x/				
Selection criteria	PICS 6.2.1/23					
Test Purpose name	Mapping of Event information sent in a 183	ation 'in-band	info or appropriate p	pattern is now available in CPG		
Test Purpose	or an appropriate pattern	Ensure that on receipt of a CPG and the Event information is set to "in-band information or an appropriate pattern is now available", a 183 Session Progress is sent if no P-Early-Media header was sent before. A P-Early-Media header is present indicating authorization of early media				
ISUP Parameter values	ACM: BCi called party si BCi no ISDN CPG: Event indicator = i			iate pattern is now available		
SIP Parameter values	183 Session Progress P-Early-Media: < auth			•		
Comments			-			
Message flows	Mg INVITE Case A 18x 183 Session Progress	<b>→</b>	MGCF → ←	ACM		
	Case B 18x (P-Early-Media)	<b>←</b> Apply	← ← post test routine	ACM CPG		

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	_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call in	dicator in CPG into PSTN XM	IL ProgressIndicator element		
	value 2 sent in a 183				
Test Purpose	Ensure that on receipt of a CPG (in-band information or an appropriate pattern is now				
			rt indicator is set to ISDN User		
			nating access non-ISDN, a 183		
		o P-Early-Media header was			
		s present the value is set to N	o. 2 (Destination address is non-		
ISUP Parameter values	ISDN).	a no indication			
isor Parameter values	ACM: BCi called party statu BCi no ISDN	เร=ทับ เทินเปลนเบท			
		and information or an approp	riate pattern is now available		
		ndicator = ISDN User Part us			
		icator = Terminating access r			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encodir</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>			
	PSTN	0			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescript	ion> <b>0000010</b> <			
Comments			IOUD		
Message flows	Mg	MGCF	ISUP		
		<b>→</b>	<b>▶</b> IAM		
	Case A		7		
	1.0%	<del>(</del>	ACM		
	183 Session Progress	<del>(</del>	CPG		
	Case B				
		<b>←</b>	E ACM		
	Tox (F-Larry-Media)		CPG		
		Apply post test routine			
		Apply post test routille			

TP number	TP_104_032	Reference	7.2.3.1.4A		
			Table 7.2.3.1.4A.2		
TSS reference	SIP-ISUP/Basic call/Sending_	_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward call ind	icator in CPG into PSTN XML	ProgressIndicator element		
	value 7 sent in a 183				
Test Purpose			an appropriate pattern is now		
			indicator is set to ISDN User		
	Part used all the way and ISD				
	Session Progress is sent if no				
ISUP Parameter values	ProgressIndicator element is				
150P Parameter values	CPG: Event indicator = in-ba	nd information or an appropr dicator = ISDN User Part use			
			•		
SIP Parameter values	183 Session Progress	ator = Terminating access IS	DIN		
Sir raiametei vaides	<pre><?xml version="1.0" encoding</pre></pre>	ı="utf-8"2>			
	PSTN	- uti-0 :/			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	IAM		
	Case A				
	18x	<b>-</b> ←	ACM		
	183 Session Progress	·	CPG		
	Case B				
	18x (P-Early-Media)	- <b>←</b>	ACM		
		<b>←</b>	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/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name		r received in an ACM/CPG into			
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183 Session Progress is sent if no P-Early-Media header was sent before. 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 Progress is sent in the PSTN XML element contains the ProgressIndicator value PI_value.				
		ed in a CPG a 183 Session Pro e ProgressIndicator value PI_v			
ISUP Parameter values	CASE A	e i Togressifialeator value i i_v	aide.		
ison i arameter values	CASE A  ACM: BCi Called party status = no indication ATP contains a Progress Indicator IE  CASE B  ACM: BCi Called party status = no indication  CPG: ATP contains a Progress Indicator IE				
SIP Parameter values	183 Session Progress:				
	xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet3 CodingStandard>00< Location>0011< ProgressOctet4 ProgressDescription>PI_value<				
Comments					
Message flows	Mg INVITE  CASE A 183 Session Progress  CASE B Case a	<b>-</b> ←	ISUP IAM ACM		
	18x 183 Session Progress •• Case b	<b>←</b>	ACM		
	18x (P-Early-Media) €	Apply post test routine	ACM CPG		

Table 6.1.1.4-2: 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'

TP number	TP_104_034	Reference		7.2.3.1.4		
				Table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of High layer com	patibility received in an a	ACM/CPC	G into 183		
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183 Session Progress is sent if no P-Early-Media header was sent before. 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.					
	<ul> <li>High layer compatibility</li> </ul>	y received in an ACM ca	illed party	status no indication, a 183		
	Session Progress is se HighLayerCompatibility	ent in the PSTN XML ele v value HLC value.	ement con	itains the		
	<ul> <li>High layer compatibility</li> </ul>			on Progress is sent in the value.		
ISUP Parameter values	CASE A	<u> </u>		a High layer compatibility IE		
		do – no maioanom vin	oontains t	ariigiriayer compatibility iz		
	CASE B					
	ACM: BCi Called party stat					
SIP Parameter values	CPG: ATP contains a High	layer compatibility IE				
SIP Parameter values	183 Session Progress: xml version="1.0" encod</th <th>ing_"uff 0"2&gt;</th> <th></th> <th></th>	ing_"uff 0"2>				
	PSTN	ing= uii-o ?>				
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard	>00<				
		Interpretation>100< PresentationMethod>01<				
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	CASE A	_	_			
	183 Session Progress	<b>←</b>	<b>←</b>	ACM		
	CASE B					
	Case a		,	A O N A		
	18x	<del>(</del>	<b>-</b>	ACM		
	183 Session Progress	<b>←</b>	~	CPG		
	Case b					
	18x (P-Early-Media)	<b>←</b>	<b>←</b>	ACM		
	,		<b>←</b>	CPG		
		Apply post test re	outine			

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/Sendi	ng_of_18x/		•		
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Low layer compatibility received in an ACM/CPG into 183					
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183					
				e. The Low layer compatibility		
IE contained in the ACM ATP parameter is mapped into the LowLayerComp						
	XML element in the 183 Session Progress as indicated in table 6.1.1.4-4.					
				status no indication, a 183		
		ent in the PSTN XML ele	ement cor	ntains the		
	LowLayerCompatibilit					
		y received in a CPG a 1 ontains the LowLayerCo		n Progress is sent in the y value ITC_value.		
ISUP Parameter values	CASE A					
	ACM: BCi Called party sta	itus = no indication ATP	contains a	a Low layer compatibility IE		
	CASE B	to a to disasting				
	ACM: BCi Called party sta					
SIP Parameter values	CPG: ATP contains a Low	layer compatibility iE				
SIF Farameter values	183 Session Progress: xml version="1.0" encoding="utf-8"?					
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
		CodingStandard>00<				
		nsferCapability>ITC_valu	ie<			
	LLOctet4>	, , –				
	TransferMode>	00<				
	InformationTrar	sferRate>10000<				
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	CASE A	_	_			
	183 Session Progress	<b>←</b>	+	ACM		
	CASE B					
	Case a					
	18x	<b>←</b>	<b>←</b>	ACM		
	183 Session Progress	<b>←</b>	<del>(</del>	CPG		
	Case b					
	18x (P-Early-Media)	<b>←</b>	+	ACM		
	2011(1 2011) 1110010)		<del>-</del>	CPG		
		Apply post test r	outine			
L	Appriy 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	9	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 183				
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG, a 183 Session				
	Progress is sent if no P-Early-Media header was sent before. The Bearer Capability IE				
	contained in the ACM ATP parameter is mapped into the BearerCapability PSTN XML				
	<ul> <li>element in the 183 Session Progress as indicated in table 6.1.1.4-5.</li> <li>Bearer Capability received in an ACM called party status subscriber free 183 Session</li> </ul>				
				BearerCapability value	
	ITC_value.	IE POTN AIVIL EI	ement contains the	BearerCapability value	
		seived in a CPG	a 183 Session Dro	gress is sent in the PSTN	
	XML element contain				
ISUP Parameter values	CASE A	is the beareroa	bability value 110_	varido.	
loor rarameter values	ACM: BCi Called party st	atus = no indicat	ion ATP contains	a Bearer Capability IF	
	J.C.III Del Called Party of	acao — no maioa	aon ann ann a	a Boaror Gapasinty 12	
	CASE B				
	ACM: BCi Called party st	atus = no indicat	tion		
	CPG: ATP contains a Be				
SIP Parameter values	183 Session Progress:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStanda		170		
		insferCapability>	TTC_value<		
	BCoctet4 TransferMode	. 00 -			
		>uu< ınsferRate>1000	0-		
	BCoctet5>	insierkale>1000	U<		
	Layer1Identific	ration>01<			
		1Protocol>00011	<		
Comments	300020.jo.		-		
Message flows	Mg	N	<b>IGCF</b>	ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	CASE A				
	183 Session Progress	<b>←</b>	<b>←</b>	ACM	
	CASE B				
	Case a				
	18x	<b>←</b>	<b>←</b>	ACM	
	183 Session Progress	<b>←</b>	<b>←</b>	CPG	
	Case b				
	18x (P-Early-Media)	<b>←</b>	+	ACM	
			+	CPG	
		Apply po	ost 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_of_18x/				
Selection criteria	PICS 6.3.2/5 OR PICS 6.3.2/27				
Test Purpose name	ACM containing CDIV informa	tion and oBCi inb	and if available,	a 181 is sent a	
	P-Early-Media present				
Test Purpose	Ensure that on receipt of an A	CM containing a	Redirection num	ber, Call diversion	
	information and Generic notification	cation set to 'Call	is diverted' and	an optional backward call	
	indicator set to In-band info or	an appropriate p	attern is now ava	ailable, a 181 Call Is Being	
	Forwarded is sent, a P-Early-I	Media is present i	ndicating author	ization of early media.	
ISUP Parameter values	ACM: BCi Called party status	s = no indication			
	Redirection number				
	Call diversion informat	ion			
	Generic notification = '	Call is diverted'			
SIP Parameter values	INVITE:				
	Supported: histinfo				
	P-Early-Media: supported				
	181 Call Is Being Forwarded				
	P-Early-Media: <indica< th=""><th>ting authorization</th><th>of early media&gt;</th><th>•</th></indica<>	ting authorization	of early media>	•	
Comments					
Message flows	Mg	M	GCF	ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	100 Trying	<b>←</b>			
	181 Call Is Being Forwarded ← ← ACM				
		Apply post te	st routine		

TP number	TP_104_040	Reference	7	.2.3.1.4B	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.3.2/5 OR PICS 6.3.2/27				
Test Purpose name	CPG containing CDIV information P-Early-Media present	ation and oBCi inband if av	ailable,	, a 181 is sent a	
Test Purpose	Ensure that on receipt of a CPG Event Indicator set to Progress containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to In-band info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media.				
ISUP Parameter values	CPG: Event Indicator set to Redirection number Call diversion informating Generic notification = oBCI In-band informatis now available.	ion Call is diverted' ation indicator in-band info	rmation	or an appropriate pattern	
SIP Parameter values	INVITE: Supported: histinfo P-Early-Media: supported 181 Call Is Being Forwarded P-Early-Media: <indicates< th=""><th>ating authorization of early</th><th>media&gt;</th><th>•</th></indicates<>	ating authorization of early	media>	•	
Comments					
Message flows	Mg INVITE 180/183 181 Call Is Being Forwarded	MGCF  →  ←  Apply post test routir	→ ← ←	ISUP IAM ACM CPG	

TP number	TP_104_041	Reference	7.2.3.1.4D		
TSS reference	SIP-ISUP/Basic call/Sending_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 indicator parameter is received in an ISUP ACM the Cause value is mapped into a Reason header in the sent 183 Session Progress as described in table 6.1.1.4-6.				
ISUP Parameter values	ACM Cause indicators Cause value Cause_Parameter				
SIP Parameter values	180 Reason: Q850, cause= <de< th=""><th>erived from the ACM cause va</th><th>lue&gt;</th></de<>	erived from the ACM cause va	lue>		
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_of_18x/				
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of Cause parameter i	n CPG into Reason header in	183		
Test Purpose	Ensure that when a Cause indicator parameter is received in an ISUP CPG the Cause value is mapped into a Reason header in the sent 183 Session Progress as described in table 6.1.1.4-6.				
ISUP Parameter values	CPG Cause indicators Cause value Cause Parameter				
SIP Parameter values	183 Reason: Q850, cause= <derived cause="" cpg="" from="" the="" value=""></derived>				
Comments					
Message flows	Mg	MGCF		ISUP	
	INVITE	<b>→</b>	→ IAM		
	180 Ringing	<b>←</b>	← ACM		
	183 Session Progress	<b>←</b>	← CPG		
	Apply post test routine				

Table 6.1.1.4-6: Mapping of Cause parameter in ACM or CPG into Reason header in 183

	←SIP 183 Session Progress	← ACM/CPG
	Reason header cause value	Cause_Parameter
VA_01	4	Cause value No. 4 (Send special information tone)
VA_02	5	Cause value No. 5 (Misdialled trunk prefix)
VA_03	18	Cause value No. 18 (no user responding)
VA_04	19	Cause value No. 19 (no answer from the user)
VA_05	22	Cause value No. 22 (number changed)
VA_06	23	Cause value No. 23 (Re-route to new destination)
VA_07	26	Cause value No. 26 (Non-selected user clearing)
VA_08	27	Cause value No. 27 (destination out of order)
VA_09	41	Cause value No. 41 (Temporary failure)
VA_10	50	Cause value No. 50 (requested facility no subscribed)
VA_11	65	Cause value No. 65 Bearer capability not implemented

	←SIP 183 Session Progress	← ACM/CPG
	Reason header cause value	Cause_Parameter
VA_12	87	Cause value No. 87 (User not member of Closed User Group(CUG))
VA_13	90	Cause value No. 90 (Non existing Closed User Group (CUG) )
VA_14	97	Cause value No. 97 (Message type non-existent or not implemented)
VA_15	98	Cause value No. 98 (Message not compatible with call state or message type non-existent or not implemented)
VA_16	99	Cause value No. 99 (information element/parameter non-existent or not implemented))
VA_17	102	Cause value No. 102 (recovery on timer expiry)

## 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	nding_of_200_OK/				
Selection criteria						
Test Purpose name	An ANM is received a 200 OK is sent					
Test Purpose	Ensure that on receipt of	of an ANM the SUT send	s a 200 OK INVITE.			
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>	<b>←</b> ANM			
	ACK	<b>→</b>				
	Apply post test routine					

TP number	TP_105_002	Refe	rence		7.2.3.1.5	
TSS reference	SIP-ISUP/Basic call/Se	ending_of_20	0_OK/			
Selection criteria						
Test Purpose name	A CON is received a 2	00 OK is sent				
Test Purpose	Ensure that on receipt of a CON the SUT sends a 200 OK INVITE.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF		I;	SUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
	200 OK (INVITE)	<b>←</b>		<b>←</b>	CON	
	ACK	<b>→</b>				
	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/Send	ling_of_200_OK/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Progress indicator received in ANM/CON is mapped into PSTN XML ProgressIndicator				
Test Purpose	Ensure that on receipt of an ANM/CON and an ATP containing a Progress indicator IE set				
	to value PI_value a, 200 OK INVITE is sent. The PSTN XML 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="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
	ProgressOctet4				
Commonto	ProgressDescr	iption> <b>PI_value</b> <			
Comments	B4	NO.	\ <u></u>		IOLID
Message flows	Mg	MG		1084	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM	
	0405.4				
	CASE A	-	-		
	180 Ringing	<b>←</b>	<b>←</b>	ACM	
	000 014 (INI) (ITE)	•	_		
	200 OK (INVITE)	<del>(</del>	<b>←</b>	ANM	
	ACK	<b>→</b>			
	CASE D				
	CASE B		-	CON	
	200 OK (INVITE)	<b>←</b> →	<b>←</b>	CON	
	-				
	Apply post test routine				

Table 6.1.1.5-1: 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'

TP number	TP_105_004	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	High layer compatibility received in ANM/CON is mapped into PSTN XML				
	HighLayerCompatibility				
Test Purpose	Ensure that on receipt of an ANM/CON and an ATP containing a High layer compatibility				
	IE set to value HLC_value, a 200 OK INVITE is sent. The PSTN XML				
	HighLayerCompatibility value is set as indicated in table 6.1.1.5-2.				
ISUP Parameter values	ANM/CON: ATP contains a High layer compatibility IE value HLC_value				
SIP Parameter values	200 OK INVITE: xml version="1.0" encoding="utf-8"?				
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100< PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacteristics> <b>HLC_value</b> <				
Comments	1				
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	CASE A				
	180 Ringing ←	<del>-</del>	ACM		
	200 OK (INVITE) ←	<del>-</del>	ANM		
	ACK →				
	CASE B				
	200 OK (INVITE) ←		CON		
	ACK →				
		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'

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  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  IE 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  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<	ection criteria
PICS 6.2.1/5	ection criteria
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  IE 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  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<	
LowLayerCompatibility  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 200 OK INVITE is sent. The PSTN XML  LowLayerCompatibility 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  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  LowLayerCompatibility>  LLOctet3>  CodingStandard>00<	t Dumana mana
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 200 OK INVITE is sent. The PSTN XML LowLayerCompatibility 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  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  LowLayerCompatibility>  LLOctet3>  CodingStandard>00<	t Purpose name
IE 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  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<	
LowLayerCompatibility 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  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  LowLayerCompatibility> LLOctet3> CodingStandard>00<	t Purpose
ISUP 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<	
SIP Parameter values  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  LowLayerCompatibility>  LLOctet3>  CodingStandard>00<	
xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00<	
PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00<	Parameter values
LowLayerCompatibility>	
LLOctet3> CodingStandard>00<	
CodingStandard>00<	
LLOctet4>	
TransferMode>00<	
InformationTransferRate>10000<	
LLOctet5>	
Layer1Identification>01 </th <th></th>	
UserInfoLayer1Protocol> <b>ITC_value</b> </th <th></th>	
Comments When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element	nments
is absent	
Message flows Mg MGCF ISUP	sage flows
INVITE → JAM	J
CASE A	
180 Ringing ← ← ACM	
200 OK (INVITE) ← ANM	
ACK →	
CASE B	
200 OK (INVITE) ← ← CON	
ACK →	
Apply post test routine	

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

ITC_value	LLC Information transfer capability	XML LLC InformationTransferCapability	XML UserInfoLayer1Protocol
ITC_VA_1	Speech	'00000'	'00011'
ITC_VA_2	3,1 kHz audio	'10000'	'00011'
ITC_VA_3	Unrestricted digital info	'01000'	absent
ITC VA 4	7 kHz audio	'10001'	'00110'

TP number	TP_105_006	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	ICS 6.2.1/5						
Test Purpose name	Bearer Capability received in A	ANM/CON is mapped into PS7	TN XML BearerCapability					
Test Purpose		nsure 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 XM	IL BearerCapability value is					
	set as indicated in table 6.1.1.							
ISUP Parameter values	ANM/CON: ATP contains a Be	earer Capability IE value ITC_	value					
SIP Parameter values	200 OK INVITE:							
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>						
	PSTN							
	BearerCapability							
	BCoctet3							
	CodingStandard>00							
		Capability> <b>ITC_value</b> <						
		BCoctet4						
	TransferMode>00<							
	InformationTransferRate>10000<							
	BCoctet5>	0.4						
		Layer1Identification>01< UserInfoLayer1Protocol> <b>ITC_value</b> </th						
Comments	UserinioLayer1Prot	ocoi>iic_value </th <th></th>						
Comments	84	MOOF	ICUD					
Message flows	Mg	MGCF	ISUP					
	INVITE ->	<b>→</b>	IAM					
	CASE A	_	4014					
	180 Ringing ←	<b>←</b>	ACM					
		_						
		200 OK (INVITE) ← ANM						
	ACK →	ACK →						
	0.000							
	CASE B	_						
	200 OK (INVITE)		CON					
	ACK →							
		Apply post test routine						

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_105_007	Reference	7.2.3.1.5					
		Table 7.2.3.1.5.2					
SIP-ISUP/Basic call/Sending_	of_200_OK/						
PICS 6.2.1/5							
	Backward call indicator mapped into PSTN XML ProgressIndicator value 1						
	insure that on receipt of an ANM/CON and the backward call indicator is set to ISDN						
		SDN: further progress					
information may be available i	n-band).						
	art indicator = ISDN User Part	not used all the way					
1	="utf-8"?>						
ProgressIndicator							
 December 20 of at 4							
<u> </u>	n> 0000001 z						
FlogressDescriptio	11>0000001<						
Ma	MGCF	ISUP					
		IAM					
IIIVII L		IZAIVI					
CASE A							
	. 4	ACM					
Too Kinging	•	7.0101					
200 OK (INVITE)	<b>.</b>	ANM					
7							
CASE B							
	·	CON					
, ,		33.1					
, (3)							
	SIP-ISUP/Basic call/Sending PICS 6.2.1/5  Backward call indicator mapped Ensure that on receipt of an A User Part not used all the way ProgressIndicator value is set information may be available is ANM/CON: BCi ISDN User Pa 200 OK INVITE xml version="1.0" encoding PSTN ProgressIndicator ProgressOctet4 ProgressDescriptio  Mg INVITE  CASE A 180 Ringing  200 OK (INVITE) ACK  CASE B 200 OK (INVITE)</th <th>SIP-ISUP/Basic call/Sending_of_200_OK/ PICS 6.2.1/5  Backward call indicator mapped into PSTN XML ProgressIr Ensure that on receipt of an ANM/CON and the backward of User Part not used all the way, a 200 OK INVITE is sent a ProgressIndicator value is set to 1 (Call is not end-to-end IS information may be available in-band).  ANM/CON: BCi ISDN User Part indicator = ISDN User Part 200 OK INVITE <?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressDescription&gt;0000001&lt;  Mg MGCF INVITE  CASE A 180 Ringing  CASE B 200 OK (INVITE)  CASE B 200 OK (INVITE)  CASE B</th>	SIP-ISUP/Basic call/Sending_of_200_OK/ PICS 6.2.1/5  Backward call indicator mapped into PSTN XML ProgressIr Ensure that on receipt of an ANM/CON and the backward of User Part not used all the way, a 200 OK INVITE is sent a ProgressIndicator value is set to 1 (Call is not end-to-end IS information may be available in-band).  ANM/CON: BCi ISDN User Part indicator = ISDN User Part 200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<  Mg MGCF INVITE  CASE A 180 Ringing  CASE B 200 OK (INVITE)  CASE B 200 OK (INVITE)  CASE B					

TP number	TP_105_008		Reference		7.2.3.1.5	5		
					Table 7.	2.3.1.5.2		
TSS reference	SIP-ISUP/Bas	ic call/Sending_c	of_200_OK/					
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5						
Test Purpose name			d into PSTN XML					
Test Purpose			NM/CON and the					
			nd Terminating a					
		STN XML Progr	essIndicator value	e is set to 2	(Destination	on address is non-		
	ISDN).							
ISUP Parameter values			Part indicator = IS			•		
CID Developed			icator = Terminat	ing access i	non-ISDN			
SIP Parameter values	200 OK INVIT		II. 44 OIIO.					
	PSTN	="1.0" encoding=	: uii-o ?>					
	Progressir	dicator						
	riogressii	luicatoi						
	Progre	ssOctet4						
		gressDescription	>000010<					
Comments								
Message flows	Mg	]	MGCF			ISUP		
	INVITE	<b>→</b>		<b>→</b>	IAM			
	CASE A							
	180 Ringing	<b>←</b>		<b>←</b>	ACM			
	1.00 199							
	200 OK (INVI	ΓE) <b>←</b>		<b>←</b>	ANM			
	ACK →							
	CASE B							
	0.10==	TE\ <b>_</b>		<b>+</b>	CON			
	200 OK (INVITACK	「E) <b>←</b>		~	CON			
	ACK	7	Apply post tes	t routine				
			Whis host tes	Julii G				

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_o	f_200_OK/					
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5						
Test Purpose name	Backward call in							
Test Purpose		Ensure that on receipt of an ANM/CON and the backward call indicator is set to ISDN						
					I, a 200 O	K INVITE is sent		
	and the PSTN X							
ISUP Parameter values	ANM/CON: BO					I the way		
		DN access indi	cator = Termina	ting access I	SDN			
SIP Parameter values	200 OK INVITE							
	xml version="</th <th>1.0" encoding=</th> <th>"utt-8"?&gt;</th> <th></th> <th></th> <th></th>	1.0" encoding=	"utt-8"?>					
	PSTN							
	ProgressIndi	cator						
	 Drograssi	Octob4						
	Progress	วิธเยเ <del>น</del> essDescription:	\0000111 <i>~</i>					
Comments	1 Togh	233De3cription.	>0000111<					
Message flows	Mg		MGCF			ISUP		
mossage news	INVITE	<b>→</b>		<b>→</b>	IAM	1001		
		-		-	.,			
	CASE A							
	180 Ringing	+		<b>←</b>	ACM			
		_		_				
	200 OK (INVITE	<b>+</b>		<b>←</b>	ANM			
	ACK →							
	CASE B							
	200 OK (INVITE	<b>+</b>		<b>←</b>	CON			
	ACK	, →						
	Apply post test routine							

TP number	TP_105_010	Refe	rence		7.2.3.1.5				
					Table 7.2	2.3.1.5.2			
TSS reference	SIP-ISUP/Basic call/	SIP-ISUP/Basic call/Sending_of_200_OK/							
Selection criteria	PICS 6.2.1/5								
Test Purpose name	Optional backward of								
Test Purpose	Ensure that on recei in-band information sent and the PSTN appropriate pattern i	<b>n or an appropr</b> XML Progressind	<b>iate pattern is r</b> dicator value is s	now ava	ailable, a 2	200 OK INVITE is			
ISUP Parameter values	•		I indicator In-bar an appropriate p						
SIP Parameter values	200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000<								
Comments									
Message flows	Mg INVITE	<b>→</b>	MGCF	<b>→</b>	IAM	ISUP			
	CASE A 180 Ringing	<b>←</b>		<b>←</b>	ACM				
	200 OK (INVITE) ACK	<b>←</b> →		<b>←</b>	ANM				
	CASE B 200 OK (INVITE) ACK	<b>←</b> →	oly post test rou	<b>+</b>	CON				
	1	Ahl	ny post test fot	TILL C					

TP number	TP_105_011	Ref	erence		7.2.3.1.5		
Tr Hamber	111 _103_011	I CI	CICIOC		Table 7.2		
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5	<u> </u>					
Test Purpose name		Receipt of TMU speech in ANM/CON, no BC present in ATP					
Test Purpose	Ensure that on receipt					to <b>speech</b> in the	
-	ANM/CON, a 200 OK						
	present the Informatio				•	,	
ISUP Parameter values	IAM:		•				
	TMR = second Informa	ationTransfer	Capability				
	TMR prime = first Info	rmationTrans	ferCapability				
	USI = first BearerCapa	ability					
	USI prime = second B						
	ANM/CON: Transmi		n used = speech				
SIP Parameter values	INVITE: PSTN XML M						
	xml version="1.0" e</th <th>ncoding="utf-</th> <th>8"?&gt;</th> <th></th> <th></th> <th></th>	ncoding="utf-	8"?>				
	PSTN						
	BearerCapability						
	BCoctet3						
	CodingStar		-h:li.u. 00000 .				
	information	rransierCapa	ability>00000<				
	BearerCapability						
	BCoctet3						
	CodingStar	dard>00/					
			ability>10001<				
	Illiomation	rranoioroapi	domey 10001				
	200 OK INVITE						
	xml version="1.0" e</th <th>ncodina="utf-</th> <th>8"?&gt;</th> <th></th> <th></th> <th></th>	ncodina="utf-	8"?>				
	PSTN	J					
	BearerCapability						
	BCoctet3						
	CodingStar	ndard>00<					
	Information	TransferCapa	ability>00000<				
_	•••						
Comments							
Message flows	Mg	_	MGCF	_		ISUP	
	INVITE	<b>→</b>		→	IAM		
	CASE A	_		_			
	180 Ringing	<b>←</b>		<b>←</b>	ACM		
	000 014 (IN 11 (ITT)	_		_	A		
	200 OK (INVITE)	<del>-</del>		<b>←</b>	ANM		
	ACK	<b>→</b>					
	0.07.7						
	CASE B	_		_			
	200 OK (INVITE)	<del>(</del>		<b>←</b>	CON		
	ACK	<b>→</b>					
		Aŗ	ply post test ro	utine			

TP_105_012 Reference 7.2.3.1.5 Table 7.2.3.1.5.1  SS reference SIP-ISUP/Basic call/Sending_of_200_OK/ Felection criteria PICS 6.2.1/5  Receipt of TMU 3,1 kHz audio in ANM/CON, no BC present in ATP
SS reference SIP-ISUP/Basic call/Sending_of_200_OK/ selection criteria PICS 6.2.1/5
Selection criteria PICS 6.2.1/5
est Purpose Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio
the ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is
present the InformationTransferCapability is set to 3,1 kHz audio.
SUP Parameter values IAM:
TMR = second InformationTransferCapability
TMR prime = first InformationTransferCapability
USI = first BearerCapability
USI prime = second BearerCapability
ANM/CON: Transmission medium used = 3,1 kHz audio
INVITE: PSTN XML MIME body
<pre><?xml version="1.0" encoding="utf-8"?></pre>
PSTN Promote Part of the Promote Part of the Part of t
BearerCapability BCoctet3
CodingStandard>00< InformationTransferCapability>10000<
Information Hansier Capability > 10000
BearerCapability
BCoctet3
CodingStandard>00<
InformationTransferCapability>10001<
. ,
200 OK INVITE
<pre><?xml version="1.0" encoding="utf-8"?></pre>
PSTN
BearerCapability
BCoctet3
CodingStandard>00< InformationTransferCapability>10000<
Information ransier Capability > 100000
Comments
lessage flows Mg MGCF ISUP
INVITE → IAM
CASE A
180 Ringing ← ← ACM
200 OK (INVITE) ← ANM
ACK →
CASE B
200 OK (INVITE) ← CON
ACK →
Apply post test routine

TP number	TP_105_013	Refe	rence		7.2.3.1.5		
TSS reference	SIP-ISUP/Basic call/S	Sending_of_20	0_OK/				
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5					
Test Purpose name	Receipt of TMU, BC p	resent in ATP	PSTN XML Bea	arerCapa	bility sent	in 200 OK	
Test Purpose	Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer Capability IE in the ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set as indicated in table 6.1.1.5-5.						
ISUP Parameter values	IAM: TMR = second 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>	IAM	ISUP	
	180 Ringing	<b>←</b>		<b>←</b>	ACM		
	200 OK (INVITE) ACK	<b>←</b> →		<b>←</b>	ANM		
	CASE B 200 OK (INVITE) ACK	<b>←</b> →	mb. moot too! ==	<b>←</b>	CON		
		Ар	ply post test ro	outine			

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	Refe	rence	7.2.3.1.5			
TSS reference	SIP-ISUP/Basic call/S	Sending_of_20	0_OK/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Fall back does not oc						
Test Purpose	Ensure when the sen						
	64 kBit/s preferred ar						
		NVITE is sent. The Bearer Capability IE present in the ATP parameter is mapped in the					
		PSTN XML BearerCapability element. The first stated codec in the SDP answer is set to					
	the value of the first s	stated codec in	the SDP offer.				
ISUP Parameter values	IAM:						
	TMR = second Inform						
	TMR prime = first Info		erCapability				
	USI = first BearerCap						
	USI prime = second I	BearerCapabilit	У				
OID D	ANM/CON:						
SIP Parameter values	200 OK INVITE		NIO				
	xml version="1.0"</th <th>encoaing= uti-8</th> <th>3 ?&gt;</th> <th></th> <th></th>	encoaing= uti-8	3 ?>				
	PSTN Bases Canability						
	BearerCapability BCoctet3						
		ndard>00<					
		nTransferCapal	hility>00110>				
	IIIIOIIIIalioi	ПтапыстСара	Dility 200110				
	SDP						
		RTP/AVP <dv< th=""><th>namic Pay Load</th><th>d Type&gt;</th><th></th></dv<>	namic Pay Load	d Type>			
	m=audio <port #=""> RTP/AVP <dynamic load="" pay="" type=""> a=rtpmap: <dynamic load="" pay="" type=""> CLEARMODE/8000</dynamic></dynamic></port>						
Comments	<u> </u>		<u> </u>	<u> </u>			
Message flows	Mg		MGCF		ISUP		
	INVITE	<b>→</b>		→ IAM			
	CASE A						
	180 Ringing	<b>←</b>		← ACM			
	200 OK (INVITE)	<b>←</b>		← ANM			
	ACK ` ´	<b>→</b>					
	CASE B						
	200 OK (INVITE)	<b>←</b>		← CON			
	ACK	<b>→</b>					
		Apı	ply post test ro	utine			
	i ippi) peer teet teeting						

# 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/Sendir	SIP-ISUP/Basic call/Sending_of_REL/						
Selection criteria								
Test Purpose name	BYE received in confirmed	dialogue no Reason header	included, a REL is sent					
Test Purpose	present, a REL message is	Ensure that on receipt of a BYE request in confirmed dialogue and no Reason header is present, a REL message is sent. The cause indicator is set to No. 16 (normal clearing), the location is set to 'network beyond interworking point'.						
ISUP Parameter values		REL: Cause indicator Cause Value = 16 (normal clearing)  Location = network beyond interworking point						
SIP Parameter values								
Comments								
Message flows	Mg	MGCF	ISUP					
	INVITE	<b>→</b>	→ IAM					
	100 Trying	<b>←</b>						
	180 Ringing	<b>←</b>	<b>←</b> ACM					
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM					
	ACK	<b>→</b>						
	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/Send	ding_of_REL/				
Selection criteria						
Test Purpose name	BYE received in confirme	ed dialogue Reason header	include	d, a REL is sent		
Test Purpose	Ensure that on receipt of	a BYE request in confirmed	dialog	ue and a Reason header is		
	present, a REL message	is sent. The cause indicator	r is set	to the Reason header cause		
	value, the location is set t	to 'network beyond interwork	king po	int'.		
ISUP Parameter values	REL: Cause indicator C	ause Value = Cause_value				
	Loc	cation = network beyond inte	erworki	ng point		
SIP Parameter values	BYE: Reason: Q.850; cau	BYE: Reason: Q.850; cause= Cause_value				
Comments	The <b>Cause_value</b> is a PI	XIT parameter.				
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)	<b>←</b>	<b>←</b>	ANM		
	ACK →					
	-					
	BYE	<b>→</b>	<b>→</b>	REL		
	200 OK (BYE)	<b>←</b>	<b>←</b>	RLC		

TP number	TP_106_003	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sendin	g_of_REL/			
Selection criteria					
Test Purpose name	BYE received in early dialog	gue no Reason header include	d, 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		se Value = 16 (normal clearing ion = network beyond interwork			
SIP Parameter values		•			
Comments					
Message flows	Mg INVITE 18x BYE 200 OK (BYE) 487 Request Terminated ACK	MGCF	ACM REL		

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 F	REL is sent
Test Purpose	Ensure that on receipt of a B	YE request in early dialogue an	d a Reason header is
	present, a REL message is so	ent. The cause indicator is set	to the Reason header cause
	value, the location is set to 'no	etwork beyond interworking po	int'.
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	e Value = Cause_value	
	Locatio	n = network beyond interworkii	ng 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	→	IAM
	18x	÷	ACM
	BYE	→	REL
	200 OK (BYE)	←	RLC
	487 Request Terminated	_	
	ACK -	<b>&gt;</b>	

TP number	TP_106_005	Reference		7.2.3.1.7	7
TSS reference	SIP-ISUP/Basic call/Sendi	ng_of_REL/			
Selection criteria					
Test Purpose name	CANCEL received in early	dialogue no Reason hea	ader inclu	uded, a RE	L is sent
Test Purpose	Ensure that on receipt of a CANCEL 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 = 31 (normal unspecified)  Location = network beyond interworking point				
SIP Parameter values		•		<b>.</b>	
Comments					
Message flows	Mg INVITE 18x CANCEL 200 OK (CANCEL) 487 Request Terminated ACK	MGCF	→ + → +	IAM ACM REL RLC	ISUP

TP number	TP_106_006	Reference	7.2.3.1.7
TSS reference	SIP-ISUP/Basic call/Sending_c	of_REL/	
Selection criteria			
Test Purpose name	CANCEL received in early diale	ogue Reason header included	I, a REL is sent
Test Purpose	Ensure that on receipt of a CAI	NCEL request in early dialogu	e and a Reason header is
	present, a REL message is ser	nt. The cause indicator is set t	o the Reason header cause
	value, the location is set to 'net		nt'.
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value	
	Location	= network beyond interworking	ng point
SIP Parameter values	CANCEL: Reason: Q.850; cau	se= Cause_value	
Comments	The Cause_value is a PIXIT p	arameter,	
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	18x <b>←</b>	<b>←</b>	ACM
	CANCEL →	<b>→</b>	REL
	200 OK (CANCEL) ←	<b>←</b>	RLC
	487 Request Terminated ←		
	ACK →		

TP number	TP_106_007	Reference	7.2	2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in confirmed di	alogue PSTN XML HighLa	yerComp	patibility present, a REL is		
	sent containing a High layer					
Test Purpose	Ensure that on receipt of a B					
	HighLayerCompatibility is pre					
	layer compatibility IE. The va					
ISUP Parameter values	REL: ATP High layer compat	ibility High Layer Characte	ristic = H	ILC_value		
SIP Parameter values	BYE:					
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th> <th></th>	g="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>(					
	•	Interpretation>100<				
	PresentationMethod>01< HLOctet4					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments	Tilgricayoronaladionolido/Tico_Yalad					
Message flows	Mg	MGCF		ISUP		
gooo	_	<b>→</b>	→ IAN			
		<del>-</del>				
	180 Ringing ← ← ACM					
	Too ranging Thomas Andrews					
	200 OK (INVITE) ← ← ANM					
	ACK					
	BYE -	→	→ RE	:L		
	200 OK (BYE)	<del>-</del>	← RL			

TP number	TP_106_008	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 dialogu	e PSTN XML HighLayerCo	ompatibility present, a REL is sent			
	containing a High layer comp	atibility IE				
Test Purpose	Ensure that on receipt of a B					
			n ATP is present containing a High			
	layer compatibility IE. The val					
ISUP Parameter values	REL: ATP High layer compat	bility High Layer Characte	eristic = HLC_value			
SIP Parameter values	BYE:					
	xml version="1.0" encoding</p	j="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
		HLOctet3				
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	•	→ IAM			
	BYE	•	→ REL			
	200 OK (BYE)	-	<b>←</b> RLC			
	487 Request Terminated •	•				
	ACK -					

TP number	TP_106_009	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CANCEL received in early di	alogue PSTN XML HighLa	yerCompatibility present, a REL is		
	sent containing a High layer				
Test Purpose	Ensure that on receipt of a C				
			n ATP is present containing a High		
	layer compatibility IE. The va				
ISUP Parameter values	REL: ATP High layer compat	ibility High Layer Characte	eristic = HLC_value		
SIP Parameter values	CANCEL				
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>			
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharact	eristics>HLC_value<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	→ IAM		
	CANCEL -	<b>→</b>	→ REL		
	200 OK (CANCEL)	-	← RLC		
	487 Request Terminated	<del>-</del>			
	ACK -	<del>)</del>			

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/Ser	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in confirm	ed dialogue PSTN XN	/IL LowLayerCo	ompatibility present, a REL is		
	sent containing a Low la					
Test Purpose	Ensure that on receipt o					
				is present containing a Low		
	layer compatibility IE. Th					
ISUP Parameter values	REL: ATP Low layer cor	mpatibility Information	Transfer Capa	ability = ITC_value		
SIP Parameter values	CANCEL					
	xml version="1.0" end</th <th>oding="utf-8"?&gt;</th> <th></th> <th></th>	oding="utf-8"?>				
	PSTN					
	LowLayerCompatibil	ıty>				
	LLOctet3>					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
Comments	***					
Message flows	Mg	MGC	F	ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	100 Trying	<b>←</b>				
	180 Ringing ← ← ACM					
	200 OK (INVITE) ← ANM					
	ACK →					
	BYE	<b>→</b>	<b>→</b>	REL		
	200 OK (BYE)	<b>←</b>	<b>←</b>	RLC		

TP number	TP_106_011	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	containing a Low layer comp	patibility IE	npatibility present, a REL is sent		
Test Purpose	LowLayerCompatibility is pro	BYE request in early dialogue esent, a REL is sent and an A alue is mapped as indicated i	ATP is present containing a Low		
ISUP Parameter values	<b>REL:</b> ATP Low layer compa	tibility Information Transfer C	apability = ITC_value		
SIP Parameter values	CANCEL xml version="1.0" encodir PSTN LowLayerCompatibility LLOctet3> CodingStandard> InformationTrans	·			
Comments					
Message flows	Mg INVITE	MGCF →	ISUP → IAM		
	BYE 200 OK (BYE) 487 Request Terminated ACK	•	→ REL ← RLC		

TP number	TP_106_012	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 d	ialogue PSTN XML LowLaye	erCompatibility present, a REL is		
	sent containing a Low layer	compatibility IE			
Test Purpose	Ensure that on receipt of a C	CANCEL request in early dial	ogue and a PSTN XML		
	LowLayerCompatibility is pre	esent, a REL is sent and an $\lambda$	ATP 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	<b>REL:</b> ATP Low layer compa	tibility 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<			
	InformationTransf	erCapability> <b>ITC_value</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	CANCEL	→	→ REL		
	200 OK (CANCEL)	←	← RLC		
	487 Request Terminated	←			
	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		
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria					
Test Purpose name	A REL is received, a BYE requ	iest is sent			
Test Purpose	Ensure that on receipt of a RE	L message in the confirmed d	lialogue, a BYE is sent. The		
	Reason header is present and	the cause value is set to the	received cause value in the		
	REL Cause indicator.				
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value			
SIP Parameter values	BYE: Reason: Q.850; cause	= Cause_value			
Comments	Cause_value is a PIXIT param	eter.			
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ←	<del>(</del>	ACM		
	200 OK (INVITE) ←	<b>←</b>	ANM		
	ACK →				
	BYE ←	<b>←</b>	REL		
	200 OK (BYE) →	<b>→</b>	RLC		

TP number	TP_107_002	Reference	7.2.3.1.8	
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_REL/		
Selection criteria				
Test Purpose name	A REL is received before an ea	arly 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	REL: Cause indicator Cause V	alue = Cause_value		
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; c	ause = Cause_value		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	-	IAM	
	100 Trying ←			
	SIP_final_Response ←	•	- REL	
	ACK →	-	RLC	

TP number	TP_107_003	Reference		7.2.3.1.8	8
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 establ	ished (180	0), a final i	response is sent
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to sending a 180 Ringing is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response.				
ISUP Parameter values		ACM: BCi Called party status = subscriber free REL: Cause indicator Cause Value = Cause value			
SIP Parameter values	4xx/5xx/6xx: Reason: Q.	850; cause = Cause_val	ıe		
Comments					
Message flows	Mg INVITE 180 Ringing	MGCF → ←	<b>→</b>	IAM ACM	ISUP
	SIP_final_Response ACK	<b>←</b> →	<b>←</b> →	REL RLC	

TP number	TP_107_004	Reference	7.	2.3.1.8	
TSS reference	SIP-ISUP/Basic call/Receipt_c	SIP-ISUP/Basic call/Receipt_of_REL/			
Selection criteria					
Test Purpose name	A REL is received after an ear	ly dialogue is establish	ed (181), a	a final resp	onse 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 = Cause_value			
Comments					
Message flows	Mg INVITE 181 Call Is Being Forwarded SIP_final_Response ACK	MGCF	→ ← ← →	IAM ACM REL RLC	ISUP

TP number	TP_107_005	Reference	7.	2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria						
Test Purpose name	A REL is received after an ear	ly dialogue is establishe	d (181), a	a final res	ponse is sent	
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to sending a 183 Session Progress is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response.					
ISUP Parameter values	oBCi in-band info avail	ACM: BCi Called party status = no indication oBCi in-band info available REL: Cause indicator Cause Value = Cause value				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850;	cause = Cause_value				
Comments						
Message flows	Mg	MGCF			ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM		
	183 Session Progress	<b>←</b>	<b>←</b>	ACM		
	SIP_final_Response	<del>(</del>	<del>(</del>	REL		
	ACK	<u>→</u>	<u>→</u>	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 II		apped ir	nto the PSTN XML	
	ProgressIndicator in the sent				
Test Purpose				icator IE is present in an ATP,	
	a SIP final response as indic				
				n is derived from the received	
	REL Progress indicator as in		2.		
ISUP Parameter values	REL: ATP Progress Indicato	r = PI_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding</p	g="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescripti	on> <b>PI_value</b> <			
Comments					
Message flows	Mg	MGCF		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	

TP number	TP_107_007   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 High Layer Compatibility IE present in a REL is mapped into the PSTN XML 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 6.1.1.7-5 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:  PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<				
Comments					
Message flows	Mg         MGCF         ISUP           INVITE         →         →         IAM           180 Ringing         ←         ACM           SIP_final_Response         ←         REL           ACK         →         RLC				

TP number	TP_107_008	Reference	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Low Layer Compatibil		mapped into the PSTN XML		
	LowLayerCompatibility in the sent final response				
Test Purpose			er Compatibility IE is present in an		
	ATP, a SIP final response as i				
			TransferCapability is derived from		
	the received REL Low Layer C		in table 6.1.1.7-4.		
ISUP Parameter values	REL: ATP Low Layer Compatibility = ITC_value				
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
	LLOctet4>				
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -		→ IAM		
	180 Ringing ←	ı	← ACM		
	SIP_final_Response	•	← REL		
	ACK -		→ RLC		

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

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
VA_01	404 Not Found	Cause value No. 1 (unallocated (unassigned) number)
VA_02	604 Does not exist anywhere	Cause value No. 2 (no route to network)
VA_03	604 Does not exist anywhere	Cause value No. 3 (no route to destination)
VA_04	500 Server Internal error	Cause value No. 4 (Send special information tone)
VA_05	404 Not Found	Cause value No. 5 (Misdialled trunk prefix)
VA_06	486 Busy Here	Cause value No. 17 (user busy)
VA_07	480 Temporarily unavailable	Cause value No. 18 (no user responding)
VA_08	480 Temporarily unavailable	Cause value No. 19 (no answer from the user)
VA_09	480 Temporarily unavailable	Cause value No. 20 (subscriber absent)
VA_10	603 Decline	Cause value No. 21 (call rejected), Location = 000 / user (U)
VA_11	403 Forbidden	Cause value No. 21 (call rejected) , Location not equal 000 / user (U)
VA_12	410 Gone	Cause value No. 22 (number changed)
VA_13	410 Gone	Cause value No. 23 (Re-route to new destination)
VA_14	433 Anonymity Disallowed	Cause value No. 24 (call rejected due to ACR supplementary service)
VA_15	483 Too many hops	Cause value No. 25 (Exchange routing error)
VA_16	480 Temporarily unavailable	Cause value No. 26 (Non-selected user clearing)
VA_17	502 Bad Gateway	Cause value No. 27 (destination out of order)
VA_18	484 Address Incomplete	Cause value No. 28 invalid number format (address incomplete)

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
VA_19	501 Not Implemented	Cause value No. 29 (facility rejected)
VA_20	480 Temporarily unavailable	Cause value No. 31 (normal unspecified) (class default)
VA_21	486 Busy here	Cause value No. 34 (No circuit/channel available) CCBS indicator = CCBS possible
VA_22	503 Service Unavailable	Cause value No. 34 (No circuit/channel available) CCBS indicator = CCBS not possible or absent
VA_23	500 Server Internal error	Cause value No. 38 (Network out of order)
VA_24	503 Service Unavailable	Cause value No. 41 (Temporary failure)
VA_25	503 Service Unavailable	Cause value No. 42 (Switching equipment congestion)
VA_26	500 Server Internal error	Cause value No. 43 (Access information discarded)
VA_27	503 Service Unavailable	Cause value No. 44 (Requested channel not available)
VA_28	500 Server Internal error	Cause value No. 46 (Precedence call blocked)
VA_29	503 Service Unavailable	Cause value No. 47 (Resource unavailable (class default))
VA_30	488 Not acceptable here	Cause value No. 50 (requested facility no subscribed)
VA_31	603 Decline	Cause value No. 55 (Incoming class barred within Closed User Group (CUG))
VA_32	603 Decline	Cause value No. 57 (bearer capability not 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)

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
VA_48	501 Not Implemented	Cause value No. 103 (Non-existent parameter passed on)
VA_49	501 Not Implemented	Cause value No. 110 (Message with 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

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

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

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

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

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

Table 6.1.1.7-5: Receipt of the Release message (REL)

SIP_final_Response	←SIP Message	← REL	
	Status code	Cause parameter	
VA_01	480 Temporarily unavailable	Cause value No. 19 (no answer from the user)	
VA_02	603 Decline	Cause value No. 21 (call rejected), Location = 000 / user (U)	
VA_03	501 Not Implemented	Cause value No. 63 (service option not available, unspecified) (class default)	

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
VA_04	504 Server timeout	Cause value No. 102 (recovery on timer expiry)
VA_05	500 Server Internal error	Cause value No. 127 (interworking unspecified) (class default)

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

TP number	TP_108_004	Reference	7.2.3.1.9 2)			
TSS reference	SIP-ISUP/Basic call/Receipt_c	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	RSC received after an early di	RSC received after an early dialogue was established				
Test Purpose	Ensure that the SUT is able to send a 480 Temporarily Unavailable if a <b>RSC</b> is received and an early dialogue is established.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	IAM			
	180 Ringing	+ +	ACM			
	480 Temporarily Unavailable	+ +	RSC			
	ACK	<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 dialogue 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> →	IAM		
	180 Ringing	<b>+ +</b>	ACM		
	INVITE (2)	<b>→ →</b>	IAM		
	180 Ringing	<b>+ +</b>	ACM		
	480 Temporarily Unavailable (1	ı) <b>← ←</b>	GRS		
	ACK	<b>→</b> →	GRA		
	480 Temporarily Unavailable (2	<u>2</u> ) <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 dialogue 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/Receipt	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	RSC received after a confirm	ned dialogue was established				
Test Purpose	Ensure that the SUT is able	to send a BYE request if a RS	C is received and a confirmed			
	dialogue is established.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b> →	IAM			
	180 Ringing	<del>(</del>	- ACM			
	200 OK INVITE	<del>(</del>	- ANM			
	ACK	<b>→</b>				
	BYE	<del>(</del>	- RSC			
	200 OK BYE	<b>→</b> -	RLC			

TP number	TD 100 000	Reference	7 2 2 4 0 4)		
	TP_108_008		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	+ +	ACM		
	200 OK INVITE	+ +	ANM		
	ACK	→	,		
	AON				
	INVITE (2)	<b>→</b> →	IAM		
	180 Ringing	÷ ÷	ACM		
	200 OK INVITE	÷ ÷	ANM		
		<b>→</b>	AINIVI		
	ACK	7			
	BYE (1)	+ +	GRS		
	200 OK BYE	<b>→</b> →	GRA		
	BYE (2)	<b>←</b>			
	200 OK BYE	<b>→</b>			

TP number	TP 108 009	Reference	7.2.3.1.9 1)	
TSS reference			[7.2.3.1.9 1]	
	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/			
Selection criteria				
Test Purpose name	CGB received after a confirme	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 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>	IAM	
	` '	<b>+ +</b>	ACM	
	5 5	<b>+ +</b>	ANM	
		· →	7 (I VIVI	
	ACK			
	INVITE (2)	<b>→</b>	IAM	
	( )	· ·	ACM	
		· + +	ANM	
		<del>}</del>	AINIVI	
	ACK	7		
	BYE (1)	<b>+ +</b>	GGB	
		<b>→</b>	GGBA	
	BYE (2)	<del>(</del>		
	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						
Test Purpose name	REFER received in the confirmed dialogue					
Test Purpose	Ensure that on receipt of a REFER request in the confirmed dialogue, a 403 Forbidden					
-	response to this REFER reque	response to this REFER request 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	<del>-</del>				
		Apply post test routine				

TP number	TP 109 002	Reference	7.2.3.1.9a			
TSS reference	SIP-ISUP/Basic call/Receipt		1.2.6.1.64			
Selection criteria	·	<del></del>				
Test Purpose name	REFER received in the early	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> →	IAM			
	100 Trying	<b>←</b>				
	180 Ringing	<b>← ←</b>	ACM			
	REFER	<b>→</b>				
	403 Forbidden	<b>←</b>				
		Apply post test routine				

#### 6.1.1.10 Autonomous Release at I-MGCF

TP number	TP_110_001	Reference	7.2.3.1.10
TSS reference	SIP-ISUP/Basic call/Autonom	ous_Release/	
Selection criteria	NOT PICS 6.2.3/1 AND NOT	PICS 6.2.3/2	
Test Purpose name	Determination that insufficient	digits received	
Test Purpose		NVITE request and the SUT descriptions at 484 Address Incomplete file.	
ICUD Doromotor volues	digits received, the 501 send	s a 464 Address incomplete in	nai 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/Autonome	ous_Release/	
Selection criteria			
Test Purpose name	Connection request is not rout	table	
Test Purpose	Ensure that on receipt of an IN		
	to congestion, the SUT sends	a 480 Temporarily Unavailable	e final response.
ISUP Parameter values			
SIP Parameter values			
Comments	Prepare the SUT that a call is	not routeable e.g. no circuit av	/ailable.
Message flows	Mg	MGCF	ISUP
		Apply pre test routine	
	INVITE	<b>→</b>	
	100 Trying	<b>←</b>	
	480 Temporarily Unavailable	<b>←</b>	
	ACK	<b>→</b>	

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

TP number	TP_110_004	Reference	7.2.3.1.10		
TSS reference	SIP-ISUP/Basic call/Autonon	nous_Release/			
Selection criteria					
Test Purpose name	Call release due to the ISUP	BICC compatibility procedu	ure		
Test Purpose	compatibility is set to 'Releas	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 RFI			
ISUP Parameter values	Unknown message: message REL: cause value = 97	Unknown message: message compatibility = release call  REL: cause value = 97			
SIP Parameter values	500 Server Internal Error: Re	ason: cause=97			
Comments					
Message flows	Mg	MGCF	ISUP		
		Apply pre test routing	e		
	INVITE	<b>→</b>	→ IAM		
	180 Ringing	<b>←</b>	<b>←</b> ACM		
	500 Server Internal Error	<b>←</b>	<ul><li>← <any message="" unknown=""></any></li><li>→ REL</li></ul>		
	ACK	<b>→</b>	← RLC		

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

TP number	TP_110_006	Reference	7.2.3.1.10		
TSS reference	SIP-ISUP/Basic call/Autonomo	ous_Release/	·		
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:	Reason: cause=19			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	180 Ringing	<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	Referenc	е	7.2.3.2.1
TSS reference	ISUP-SIP/Basic cal	II/Sending_of_INVITE	/	·
Selection criteria				
Test Purpose name	IAM received, a IN	/ITE is sent		
Test Purpose	Ensure that on rece	eipt of an IAM messag	e, an INVITE requ	est is sent.
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	ISUP	M	GCF	Mg
	IAM	<b>→</b>	→	INVITE
			<b>←</b>	100 Trying
		Apply p	ost 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 reque received	sted or performed, the INVITE	is deferred until COT is	
Test Purpose	Ensure that on receipt of an IAM and the continuity check indicator is set to:  • 'continuity check required on this circuit'  • 'continuity check performed on previous circuit'  the sending of the initial INVITE request is deferred until the COT message is received and the Continuity indicator is set 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	
	сот →	<b>→</b> ←	INVITE 100 Trying	
		Apply post test routine		

TP number	TP_201_003   Reference   7.2.3.2.1.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/	
Selection criteria	PICS 6.2.1/3	
Test Purpose name	Preconditions indicated in the supported header	
Test Purpose	Ensure that on receipt of an IAM and the continuity indicator is set to 'Continuity cheeformed on a previous circuit' or 'Continuity check required on this circuit' an INV request is sent and the Supported header contains the value <b>precondition</b> and <b>10</b> the COT message is received, an UPDATE request is sent to fulfil the precondition	/ITE <b>10rel</b> . If
ISUP Parameter values	IAM: Nature of connection indicator = continuity check required on this circuit or co	
	check performed on previous circuit	
	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	
	OR	
	a=des:qos optional remote sendrecv	
	183: Require: 100rel	
	SDP a=curr:qos local none	
	a=curr:qos remote none	
	a=des:qos none local sendrecv	
	OR	
	a=des:qos optional local sendrecv a=des:qos mandatory remote sendrecv	
	a=conf:gos remote sendrecv	
	d=0011.q03 remote senareev	
	UPDATE:	
	SDP a=curr:qos local sendrecv	
	a=curr:qos remote none	
	a=des:qos mandatory local sendrecv	
	a=des:qos none remote sendrecv	
	OR	
	a=des:qos optional remote sendrecv	
	200 OK UPDATE	
	SDP a=curr:qos local sendrecv	
	a=curr:qos remote sendrecv	
	a=des:qos none local sendrecv	
	OR	
	a=des:qos optional local sendrecv	
	a=des:qos mandatory remote sendrecv	
Comments Message flows	ISUP MGCF Mg	
Message flows	ISUP MGCF Mg IAM → INVITE	
	← 100 Trying	
	← 183 Session Progres	:S
	→ PRACK	,
	€ 200 OK (PRACK)	
	COT → UPDATE	
	€ 200 OK (UPDATE)	
	Apply post test routine	

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

TP number	TP_201_005	F	Reference	7.2.3.2.1.3	
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending of INVITE/			
Selection criteria	PICS 6.2.1/11 ANI	D PICS 6.2.1/	12		
Test Purpose name	Information reques the call is rejected		ot successful, no	Calling party number in INF received,	
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		•	<u> </u>		
Comments					
Message flows	ISUP IAM INR INF	→ ← →	MGCF	Mg	
	RLC	<b>→</b>	Apply post test	routine	

TP number	TP_201_006	Re	eference	7.2.3.2.1.3
TSS reference	ISUP-SIP/Basic ca	II/Sending_of_	INVITE/	<u> </u>
Selection criteria	PICS 6.2.1/11 AND	NOT PICS 6.	2.1/12	
Test Purpose name	Information reques	•	t successful, no C	Calling party number in INF received,
Test Purpose	Ensure that on rece	eipt of an IAM assage is sent. (	On receipt of an Ir	orty number is present, an Information of ormation (INF) message and no ed.
ISUP Parameter values	IAM: No calling party a	ty number pre address reques	sent st indicator = callir	ng party address requested
SIP Parameter values				
Comments				
Message flows	ISUP IAM INR	<b>→</b>	MGCF	Mg
	INF	<b>→</b>		<ul><li>→ INVITE</li><li>← 100 Trying</li></ul>
		A	Apply post test re	outine

TP number	TP_201_007	Reference	7.2.3.2.1.3			
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/				
Selection criteria	PICS 6.2.1/11					
Test Purpose name	Information request procedure	e not successful, T 33 is expired	d			
Test Purpose		Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. If timer T33 is expired, the call is rejected.				
ISUP Parameter values	IAM: No calling party number INR: Calling party address rec	present quest indicator = calling party a	ddress requested			
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →					
	INR <b>←</b>	Start T <sub>33</sub>				
	REL <b>←</b>	T <sub>33</sub> Expiry				
	RLC →					
		Apply post test routine				

TP number	TP_201_008	Reference	7.2.3.2.1.4 a)
TSS reference	ISUP-SIP/Basic call/	/Sending_of_INVITE/	
Selection criteria			
Test Purpose name		alling determined by receipt of	
Test Purpose		pt of an IAM and the called pa , the initial INVITE is sent.	rty number contains the <b>end-of-</b>
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test r	outine

TP number	TP_201_009	Reference	7.2.3.2.1.4 b)
TSS reference	ISUP-SIP/Basic cal	l/Sending_of_INVITE/	
Selection criteria			
Test Purpose name	End of address sign the national number		f the maximum number of digits used in
Test Purpose			arty number contains <b>maximum ng plan</b> , the initial INVITE is sent.
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
_	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test	routine

TP number	TP_201_010	Reference	7.2.3.2.1.4 c)
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/	
Selection criteria			
Test Purpose name	End of address signalling detectal to the called party	ermined by receipt of sufficient	number of digits to route the
Test Purpose	Ensure that on receipt of an IA number of digits to route the		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

TP number	TP_201_011	F	Reference		7.2.3.2.1.4 c	d)
TSS reference	ISUP-SIP/Basic call/Send	ling_of	_INVITE/		*	,
Selection criteria						
Test Purpose name	End of address signalling	deterr	nined by observing tha	at time	r Ti/w1 has ex	xpired
Test Purpose	Ensure that on receipt of an IAM followed by several SAMs and the minimum number of digits required for routing the call have been received timer Ti/w1 is started. When timer Ti/w1 is expired the initial INVITE is sent.					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF			Mg
	IAM =	<b>→</b>				
	SAM	<b>→</b>				
	SAM	<b>→</b>	Start Ti/w1			
			Timeout Ti/w1	<b>→</b>	INVITE 100 Trying	
			Apply post test rout	_		

TP number	TP_201_012	Reference	7.2.3.2.1.4
TSS reference	ISUP-SIP/Basic call/Se	nding_of_INVITE/	
Selection criteria			
Test Purpose name	Early ACM is sent after	expiry of Ti/w2 receipt of end	d-of-pulsing signal
Test Purpose			end-of-pulsing signal, the timer Ti/w2 he called party status indicator is set
ISUP Parameter values	ACM: Called party statu	us = no indication	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	
	SAM	<b>→</b>	
	SAM	→ Start Ti/w2	→ INVITE
			← 100 Trying
	ACM	← Timeout Ti/w2	
		Apply post test rou	utine

TP number	TP_201_013		Reference		7.2.3.2.1.4	
TSS reference	ISUP-SIP/Basic cal	/Sending	_of_INVITE/		•	
Selection criteria						
Test Purpose name	Early ACM is sent a	fter expi	y of Ti/w2 receipt of th	ne maxim	um number of c	ligits used in
	the national number	ring plan				
Test Purpose			is sent after receipt o			
	the national numbering plan, the timer Ti/w2 is started. After expiry o					an ACM is
	sent and the called	party sta	tus indicator is set to '	no indicat	ion'.	
ISUP Parameter values	ACM: Called party :	status = ı	no indication			
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF		N	Иg
	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 i	outine		

TP number	TP_201_014	Reference	7.2.3.2.1.4
TSS reference	ISUP-SIP/Basic call/Sending	_of_INVITE/	
Selection criteria			
Test Purpose name	Early ACM is sent after expirical to the called party	ry of Ti/w2 receipt of a sufficient	t number of digits to route the
Test Purpose	the call to the called party, th	is sent after receipt of a sufficient ne timer Ti/w2 is started. After endicator is set to 'no indication'.	
ISUP Parameter values	ACM: Called party status = I	no indication	
SIP Parameter values			
Comments			
Message flows	ISUP IAM → SAM →	MGCF	Mg
	SAM →	Start Ti/w2 →  ←	INVITE 100 Trying
	ACM ←	Timeout Ti/w2 Apply post test routine	·

TP number	TP 201 015	Reference	7.2.3.2.1.4			
			1.2.3.2.1.4			
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/21					
Test Purpose name	A PSTN XML SendingCompleteIndication is sent if the end of the address signalling is					
	determined					
Test Purpose	Ensure that the end of the add	ress signalling is determined a	PSTN XML			
		SendingCompleteIndication is sent.				
ISUP Parameter values						
SIP Parameter values	INVITE					
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	sendingCompleteIndication	<b>\<!--</b--></b>				
Comments						
Message flows	ISUP	MGCF	Mg			
_	IAM ->	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
			, 3			
		Apply post test routine				

TP number	TP_201_016	Reference	e	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 usir	ng 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	11150 0 1 15	<u> </u>			
SIP Parameter values	INFO: Subsequent	Digit: <digits received<="" th=""><th>in SAMs&gt;</th><th></th></digits>	in SAMs>		
Comments	IOUD		205		
Message flows	ISUP IAM CASE A	→ M	GCF →	Mg INVITE	
			<b>←</b> →	484 Address Incomplete ACK	
	SAM	<b>→</b>	<b>→</b>	INVITE 183 Session Progress	
	SAM	<b>→</b>	<b>→</b> ←	INFO 200 OK (INFO)	
	CASE B		<b>←</b>	183 Session Progress	
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)	
	SAM	→ Apply p	→ ← oost test routine	INFO 200 OK (INFO)	

TP number	TP_201_017	Reference	7.2.3.2.1a.3		
TSS reference	ISUP-SIP/Basic	call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.3/2				
Test Purpose name	Overlap dialling	using the multiple INVITE method	od		
Test Purpose	Ensure that on receipt of a 484 Address Incomplete as a response to an INVITE request containing an insufficient number of digits, the SUT sends all the digits received in additional SAMs in an additional INVITE requests. The Call-ID and the From tag values are identical to the values sent in the initial INVITE.				
ISUP Parameter values					
SIP Parameter values  Comments	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>				
• • • • • • • • • • • • • • • • • • • •	IOUD	MOOF			
Message flows	ISUP IAM	MGCF →	Mg → INVITE ← 484 Address Incomplete → ACK		
	SAM	<b>→</b>	<ul><li>→ INVITE</li><li>← 484 Address Incomplete</li><li>→ ACK</li></ul>		
	SAM	→ Apply post tes	→ INVITE		

TP number	TP_201_018	Reference	7.2.3.2.1.1a.3		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria					
Test Purpose name	After expiry of Ti/w2 additiona	I received SAMs are ignored			
Test Purpose	Ensure that after expiry of Ti/\	w2 an ACM is sent and the calle	ed party status indicator is		
	set to 'no indication' and addit	ional received SAMs are ignore	ed.		
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		
		<del>-</del>	100 Trying		
	ACM ←	Timeout Ti/w2			
	SAM →				
	Apply post test routine				

TP number	TP 201 019	Reference	7.2.3.2.1a.3		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.3/1				
Test Purpose name	Overlap dialling using the in-di	alogue method			
Test Purpose	Ensure that on receipt of a 180		procedure is used an		
IOUD D	additional received SAM is ign	orea.			
ISUP Parameter values					
SIP Parameter values	INFO: SubsequentDigit: <digit< th=""><th>ts received in SAMs&gt;</th><th></th></digit<>	ts received in SAMs>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM ->	<b>→</b>	INVITE		
		<b>←</b>	484 Address Incomplete		
		<b>→</b>	ACK		
	SAM →	<b>→</b>	INVITE		
		<b>←</b>	183 Session Progress		
	SAM →	<b>→</b>	INFO		
	SAM	<b>+</b>			
		7	200 OK (INFO)		
	ACM ←	<b>+</b>	180 Ringing		
	SAM →				
	Apply post test routine				

TP number	TP 201	020	Reference		7.2.3.2.1a.3
TSS reference		ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2	<u> </u>	· <del>-</del>		
Test Purpose name	Overlap o	lialling using the mult	iple INVITE method		
Test Purpose				Itiple IN	VITE procedure is used an
_		l received SAM is ign		•	•
ISUP Parameter values		<u> </u>			
SIP Parameter values	INVITE:	Request URI <all th="" the<=""><th>e received digits in IAN</th><th>/I and S</th><th>SAMs&gt;</th></all>	e received digits in IAN	/I and S	SAMs>
		From: tag= <equal th="" to<=""><th></th><th></th><th></th></equal>			
		Call-ID: <equal in<="" th="" to=""><th>itial INVITE&gt;</th><th></th><th></th></equal>	itial 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>		→	INVITE
	ACM	<del>-</del>		<b>←</b>	180 Ringing
	SAM	<b>→</b>			
			Apply post test rou	ıtine	

TD	TD 004 00	4			7.0004.0	
TP number	TP_201_02		erence		7.2.3.2.1a.3	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 6.2.3/1 AND PICS 6.2.1/3					
Test Purpose name	Overlap dialling using the multiple INVITE method and preconditions 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					
					ported header contains the	
	value <b>precc</b>	ndition and 100rel. If	the COT message is	rece	eived, an UPDATE request is	
	sent to fulfil	the preconditions.				
ISUP Parameter values	IAM: Nature	of connection indicate	r = continuity check	requi	ired on this circuit or continuity	
	check perfo	rmed on previous circu	it			
		nuity indicator = continu		l		
SIP Parameter values		Request URI <all re-<="" th="" the=""><th></th><th></th><th>SAMs&gt;</th></all>			SAMs>	
		rom: tag= <equal init<="" th="" to=""><th></th><th></th><th></th></equal>				
		Call-ID: <equal initial<="" th="" to=""><th></th><th></th><th></th></equal>				
		Supported: precondition				
	SDP	a=curr:qos local non				
	l obi	a=curr:qos remote n				
		a=des:qos mandator				
		a=des:qos none rem	iole sendrecv			
		OR				
		a=des:qos optional r	emote sendrecv			
	400: Damiin	a. 400mal				
	183: Requir		_			
	SDP	a=curr:qos local non				
		a=curr:qos remote n				
		a=des:qos none loca	al sendrecv			
		OR				
		a=des:qos optional l				
		a=des:qos mandato				
		a=conf:qos remote s	endrecv			
	UPDATE:					
	SDP	a=curr:qos local sen	drecv			
		a=curr:qos remote n	one			
		a=des:qos mandato	ry local sendrecv			
		a=des:qos none rem				
		OR <sup>'</sup>				
	a=des:qos optional remote sendrecv					
	200 OK UP	-··-				
	SDP	a=curr:qos local sen	drecv			
	a=curr:qos remote sendrecv					
	a=des:qos optional local sendrecv					
	OR					
		a=des:qos optional l				
Comments	The CANA	a=des:qos mandator				
Comments		should sent within the d			B. 0	
Message flows	ISU		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	
				<del>-</del>	183 Session Progress	
				÷	PRACK	
				<del>-</del>	200 OK (PRACK)	
	СОТ	•				
	COT	<b>→</b>		<b>→</b>	UPDATE	
				<b>←</b>	200 OK (UPDATE)	
		A	pply post test routi	ne		

TP number	TP_201_	022	Refe	rence		7.2.3.2.1a.3
TSS reference	ISUP-SIF	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2	PICS 6.2.3/1				
Test Purpose name	Timer Ti/	w3 expires, REL	cause 28	s sent		
Test Purpose	Ensure th	at on expiry of tir	mer Ti/w3	a REL is sent and	d the c	ause value is set to #28.
ISUP Parameter values	REL: Cau	use = invalid num	ber forma	t (address incom	plete)	
SIP Parameter values	INVITE:	•		eived digits in IAN	/I and S	SAMs>
		From: tag= <equal initial="" invite="" to=""> Call-ID: <equal initial="" invite="" to=""></equal></equal>				
Comments						
Message flows		SUP		MGCF		Mg
	IAM	<del>)</del>	<b>&gt;</b>		<b>→</b>	INVITE
				Start Ti/w3	<b>←</b>	484 Address Incomplete
					<b>→</b>	ACK
	SAM	-	•		<b>→</b>	INVITE
				Start Ti/w3	<b>←</b>	484 Address Incomplete
					<b>→</b>	ACK
	REL	•	- т	imeout Ti/w3		
	RLC	+	•			
	Apply post test routine					

TP number	TP_201_023	Reference	7.2.3.2.1.5		
TSS reference		I/Sending_of_INVITE/			
Selection criteria		PICS 6.2.4/1 AND PICS 6.2.4/7	7		
Test Purpose name	Mapping of USI and USI prime into PSTN XML BearerCapability element				
Test Purpose	Ensure that on receipt of an IAM that includes a USI and USI Prime parameter then the SUT:  • Map the USI Prime into the second Bearer Capability stated in the XML BearerCapability element and  • The first offered codec is the CLEARMODE codec  • Map the USI into the first Bearer Capability stated in the XML BearerCapability element and  • The second offered codec is an Audio codec.				
ISUP Parameter values	IAM: USI = speech or 3,1 kHz audio USI prime = unrestricted digital info with T/A TMR Prime: 64 kBit/s preferred ATP(HLC Video Telephony)				
SIP Parameter values	INVITE: </th				
Comments					
Message flows	ISUP IAM	MGCF →	Mg → INVITE ← 100 Trying		
		Apply post test	routine		

TP number	TP_201_024	Reference	7.2.3.2.2.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria					
Test Purpose name	Called party number is mappe	ed into Request URI in the se	nt INVITE request		
Test Purpose	of the sent INVITE request:		mapped into the Request URI		
	country code of the netwo	dicator is set to 'National (sigork in which the SUT is located received in the Called party n	d and a leading '+' is inserted		
	<ul> <li>If the nature of address see</li> </ul>	et to 'International number' a	'+' is inserted before the		
	number digits received in				
ISUP Parameter values	<b>IAM:</b> Called party number = N	lational (significant) number o	r 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 p<="" th=""><th>arty number digits&gt;</th><th></th></called>	arty number digits>			
	if the called party num	ber is an <b>international numl</b>	per		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→	INVITE		
		<b>+</b>	100 Trying		
		Apply post test routine	, ,		

TP number	TP 201 025	Reference	7.2.3.2.2.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria		· <del>-</del>		
Test Purpose name	Called party number is mappe	d into To header in the sent II	NVITE request	
Test Purpose	Ensure that on receipt of an IAM the called party number is mapped into the To header URI of the sent INVITE request:			
	country code of the netwo	dicator is set to 'National (signary)  Note: It is located the sure is located the called party note to 'International number' a '-  Note: It is a support of the called party note is to 'International number' a '-  Note: It is a support of the called party note is to 'International number' a '-  Note is a support of the called party n	d and a leading '+' is inserted umber.	
	number digits received in		+ is inserted before the	
ISUP Parameter values	IAM: Called party number = N		r International number	
SIP Parameter values	INVITE: To			
Commonto	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone or tel: '+CC' <called digits="" number="" party=""> if the called party number is a <b>national number</b> sip: '+' <called digits="" number="" party="">@hostportion; user=phone or tel: '+' <called digits="" number="" party=""> if the called party number is an <b>international number</b></called></called></called></called>			
Comments	ICUD	MOOF	84	
Message flows	ISUP IAM →	MGCF → ←	<b>Mg</b> INVITE 100 Trying	
		Apply post test routine		

TP number	TP_201_026A	Reference	7.2.3.2.2.2, Table 10b.		
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 IA	AM the TMR speech is mappe	d into the SDP m line and a		
	attributes.				
ISUP Parameter values	IAM: TMR = speech				
SIP Parameter values	INVITE:	·			
	SDP				
	m=audio <port #=""> RTP/AV</port>	P 0 [additional codes]			
	a=rtpmap: 0 PCMU/8000				
	OR				
	m=audio <port #=""> RTP/AV</port>	P 8 [additional codes]			
	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				
		P <dynamic-pt> [additional c</dynamic-pt>	odesj		
Comments	a=rtpmap: <dynamic-pt></dynamic-pt>	PCIVIA/8000			
Comments	ICUD	MCCE	B4		
Message flows	ISUP	MGCF	Mg		
	IAM →	<del>)</del>	INVITE		
		A months on a set to set you will no	100 Trying		
		Apply post test routine			

TP number	TP_201_026B	Reference	се	7.2.3.2.2.2, Table 10b.		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 6.2.4/4					
Test Purpose name	Mapping of TMR 3,1 kHz audio into SDP					
Test Purpose	Ensure that on receipt of an IAM the TMR 3,1 and a attributes.	<b>kHz audio</b> is map	ped into	the SDP m line		
ISUP Parameter values	IAM: TMR = 3,1 kHz audio					
SIP Parameter values	INVITE: SDP m=audio <port #=""> RTP/AVP 0 [additional crass a superscript sup</port>	odes] > [additional codes				
Comments						
Message flows	ISUP IAM	MGCF →	- → ←	<b>Mg</b> INVITE 100 Trying		
	Apply post test routine			, 0		

TP number	TP_201_026C	Reference	7.2.3.2.2, Table 10b		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_INVITE/			
Selection criteria	PICS 6.2.4/2				
Test Purpose name	Mapping of TMR 64 kBit/s unre	estricted into SDP			
Test Purpose	Ensure that on receipt of an IA	M the TMR 64 kBit/s unrestr	icted is mapped into the SDP		
	m line and a attributes.				
ISUP Parameter values	IAM: TMR = 64 kBit/s unrestrict	eted			
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_o	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria					
Test Purpose name	AMR codec included				
Test Purpose	Ensure that on receipt of an IA				
	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 kH	z audio			
SIP Parameter values	INVITE:				
	SDP:				
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>				
	a = <rtpmap dyr<="" th=""><th>namic PT&gt; AMR</th><th></th></rtpmap>	namic PT> AMR			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_201_028	Reference	7.2.3.2.2.2
			Table 10b
TSS reference	ISUP-SIP/Basic call/Sending_o	of_INVITE/	
Selection criteria	PICS 6.2.4/3		
Test Purpose name	Mapping of USI parameter Info		
Test Purpose	Ensure that on receipt of an IA		
	User Information Layer 1 Proto		"G.711 A-law" is mapped
	into the SDP m-line audio cod	ec PCMA or PCMU.	
ISUP Parameter values	IAM: User service informatio	n	
	USI Information Tra	nsfer Capability	
	speech		
	Information Layer 1	Protocol Indicator	
	G.711 μ-law		
	or		
	G.711 A-law		
SIP Parameter values	INVITE:		
	SDP		
	m= <media> RTP/AVP 8</media>	3	
	a= rtpmap:8 PCMA/800	00	
	or		
	m=audio RTP/AVP 0		
	a= rtpmap:0 PCMU/800	00	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		Apply post test routine	

TP number	TP_201_028A	Reference	7.2.3.2.2.2		
			Table 10b		
TSS reference	ISUP-SIP/Basic call/Sending_	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.4/4				
Test Purpose name	Mapping of USI parameter Info	ormation Transfer Capability a	audio 3.1 kBit/s		
Test Purpose	Ensure that on receipt of an IA				
	Information Layer 1 Protocol I		711 A-law" is mapped into the		
	SDP m-line <b>audio</b> codec PCM	IA or PCMU.			
ISUP Parameter values	IAM: User service information				
	USI Information Tra	nsfer Capability			
	audio				
	Information Layer 1	Protocol Indicator			
	G.711 µ-law				
	or				
	G.711 A-law				
SIP Parameter values	INVITE:				
	SDP				
	m= <media> RTP/AVP</media>	-			
	a= rtpmap:8 PCMA/800	00			
	or				
	m=audio RTP/AVP 0				
	a= rtpmap:0 PCMU/80	00			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_201_028B	Reference	7.2.3.2.2.2	
			Table 10b	
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/		
Selection criteria	PICS 6.2.4/6			
Test Purpose name	Mapping of USI parameter Inf Facsimile Group 2/3	ormation Transfer Capability 3	s,1 kHz audio and HLC	
Test Purpose	Ensure that on receipt of an IAM the <b>USI</b> Information Transfer Capability <b>3,1 kHz audio</b> and User Information Layer 1 Protocol Indicator "G.711 μ-law" or "G.711 A-law" and ATP HLC " <b>Facsimile Group 2/3</b> " is mapped into the SDP m-line <b>image</b> udptl or tcptl or G.711 codec PCM a-law/μ-law and V.152 attribute G.711 codec PCM a-law/μ-law without V.152 attribute.			
ISUP Parameter values	IAM: User service information			
SIP Parameter values	INVITE: SDP m=image udptl t38 or m=image tcptl t38 or m=audio G.711 a=gpmd <payload g.711<="" m="audio" or="" th="" typ=""><th>e&gt; vbd=yes</th><th></th></payload>	e> vbd=yes		
Comments Message flows	ISUP	MGCF	Ma	
Message flows	IAM →	MGCF → ←	Mg INVITE 100 Trying	
		Apply post test routine	. •	

TP number	TP_201_028C	Reference	7.2.3.2.2.2		
			Table 10b		
TSS reference	ISUP-SIP/Basic call/Se	ending_of_INVITE/			
Selection criteria	PICS 6.2.4/2				
Test Purpose name	Mapping of USI param	eter Information Transfer Ca	apability UDI		
Test Purpose	Ensure that on receipt	of an IAM the USI Information	on Transfer Capability unrestricted		
	digital information is	mapped into the SDP m-line	e audio codec CLEARMODE		
ISUP Parameter values	IAM: User service inf	formation			
	USI Informa	ition Transfer Capability			
	Unrestri	icted digital information			
SIP Parameter values	INVITE:	INVITE:			
	SDP				
	m= <media> RTP/AVP <dynamic payload="" type=""></dynamic></media>				
	a= rtpmap: <dy< th=""><th colspan="3">a= rtpmap: <dynamic payload="" type=""> CLEARMODE/8000</dynamic></th></dy<>	a= rtpmap: <dynamic payload="" type=""> CLEARMODE/8000</dynamic>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
		Apply post test routine			

Table 6.1.2.1-2: Void

TP number	TP_201_029	Reference	7.2.3.2.2.3A	
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/		
Selection criteria				
Test Purpose name	Mapping of Calling party's cate	egory into cpc parameter		
Test Purpose	Ensure that on receipt of an IAM the calling party's category <b>CPC_value</b> is mapped into the 'cpc' parameter in the P-Asserted-Identity and the Accept-Language header in the sent INVITE as described in table 6.1.2.1-3.			
ISUP Parameter values	IAM: Calling party's category			
SIP Parameter values	<b>INVITE:</b> P-Asserted-Identity			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ ← Apply post test routine	INVITE 100 Trying	

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_029A	Reference	7.2.3.2.2.3A
TSS reference	ISUP-SIP/Basic call/Sending	g_of_INVITE/	
Selection criteria	PICS 6.2.1/24		
Test Purpose name	Mapping of Calling party's ca	ategory into cpc parameter	
Test Purpose		IAM the calling party's categor nto the 'cpc' parameter value 'e	
ISUP Parameter values	IAM: Calling party's category	y = emergency service call per	ANSI Standard
SIP Parameter values	INVITE: P-Asserted-Identi	ty: cpc= emergency	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE 100 Trying
		Apply post test routine	

TP number	TP_201_030	Reference	7.2.3.2.2.4	
TSS reference	ISUP-SIP/Basic call/Sendi	ISUP-SIP/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/8			
Test Purpose name	HOP counter procedure su	upported		
Test Purpose	Max-Forwards header. The	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 -	•	→ INVITE	
	← 100 Trying			
	Apply post test routine			

TP number	TP_201_031	Reference	7.2.3.2.2.5
TSS reference	ISUP-SIP/Basic call/	Sending_of_INVITE/	
Selection criteria		<del></del>	
Test Purpose name	The O-MGCF inserts	an IMS Communication Service	ce Identifier
Test Purpose		o calls, the SUT shall insert an the IMS Multimedia Telephony	
ISUP Parameter values			
SIP Parameter values	INVITE: Contact: id Accept-Co P-Asserte		ice.ims.icsi.mmtel
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE ← 100 Trying
	Apply post test routine		

TP number	TP_201_032	Refer	ence	7.2.3.2.2.6
TSS reference	ISUP-SIP/Basic cal	l/Sending_of_INV	ITE/	
Selection criteria	PICS 6.2.1/23			
Test Purpose name	Support of P-Early-	Media header		
Test Purpose	Ensure that on receipt of an IAM a P-Early-Media header is present in the sent INVITE request.			
ISUP Parameter values				
SIP Parameter values	INVITE: P-Early-N	Media: supported		
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
		Арр	y 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 Comp	atibility IE into PSTN XI	ML HighLayerCompatibility	
Test Purpose	Ensure stat on receipt of an L	AM and an ATP parame	eter is present containing a High	
			atibility element is present derived	
	according the HLC_VA as inc	dicated in table 6.1.2.1-4	<b>1.</b>	
ISUP Parameter values	IAM:			
	ATP High Layer Compatibility	1		
	High Layer Characteri	stics = HLC_VA		
SIP Parameter values	INVITE:			
	PSTN XML MIME body			
	xml version="1.0" encoding</p	g="utf-8"?>		
	PSTN	PSTN		
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMetho	od>01<		
	HLOctet4			
	HighLayerCharacte	eristics> <b>HLC_VA</b> <		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →		→ INVITE	
			← 100 Trying	
		Apply post test rou	ıtine	

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 Compatibility IE into PSTN XML LowLayerCompatibility			
Test Purpose	Layer Compatibility I	Ensure stat on receipt of an IAM and an ATP parameter is present containing a Low Layer Compatibility IE a PSTN XML LowLayerCompatibility element is present derived according the ITC_VA as indicated in table 6.1.2.1-5.		
ISUP Parameter values	IAM: ATP Low Layer Com InformationTr	npatibility ransferCapability = ITC_VA		
SIP Parameter values	Information LLOctet4> TransferM	ntibility> andard>00< onTransferCapability> <b>ITC_VA</b>	<	
Comments				
Message flows	ISUP IAM	MGCF → Apply post test r	Mg → INVITE ← 100 Trying	

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	- <del>-</del>			
Test Purpose name	Mapping of Bearer Capability	IE into PSTN XML BearerCap	ability		
Test Purpose	Ensure stat on receipt of an IA	M and an USI parameter is p	resent, a PSTN XML		
	BearerCapability element is p	BearerCapability element is present derived according the ITC_value as indicated in			
	table 6.1.2.1-6.				
ISUP Parameter values	IAM:				
	USI				
	Information Transfer C	apability = ITC_value			
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<			
	InformationTransfe	rRate>10000<			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	← 100 Trying				
		Apply post test routine			

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

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

TP number	TP_201_036	Reference	7.2.3.2.2.7	
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1	/22		
Test Purpose name	Mapping of UTI IE into PSTN	XML HighLayerCompatibility		
Test Purpose	Ensure stat on receipt of an IA	Ensure stat on receipt of an IAM and an User Teleservice Information parameter is		
		yerCompatibility element is pro	esent derived according the	
	HLC_value as indicated in tab	ole 6.1.2.1-7.		
ISUP Parameter values	IAM: UTI			
	ŭ ,	teristics>HLC_value		
SIP Parameter values	INVITE:			
	PSTN XML MIME body			
	<pre><?xml version="1.0" encoding</pre></pre>	="utf-8"?>		
	PSTN	PSTN		
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMetho	d>01<		
		HLOctet4		
	HighLayerCharacte	eristics>HLC_value<		
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 indica	ator into PSTN XML Progress	Indicator			
Test Purpose	Ensure that on receipt of an IAM the ISDN User Part indicator and the ISDN access					
	indicator of the Forward call in		TNXML ProgressIndicator			
	element according the roles P	l_value in table 6.1.2.1-8.				
ISUP Parameter values	IAM: Forward call indicator					
	ISDN User Part indi	icator				
	ISDN access indica	tor				
SIP Parameter values	INVITE:					
	PSTM XML MIME body					
	_	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	Location>yyyy<					
	ProgressOctet4					
	ProgressDescription					
Comments	The Progress indicator value 6	is not specified in Q.931				
Message flows	ISUP	MGCF	Mg			
	IAM → 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	ISDN access		
	indicator	indicator		
VA_01	0 (ISDN User Part not used all the way)		'0000001'	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 wav")	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 ProgressI	ndicator			
Test Purpose	Ensure stat on receipt of an IA					
	Indicator IE a PSTN XML Prog	gressIndicator element is pres	ent derived according the			
	PI_VA as indicated in table 6.	1.2.1-9.	-			
ISUP Parameter values	IAM:					
	ATP Progress Indicator					
	Progress Description =	PI_VA				
SIP Parameter values	INVITE:					
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	Location>0000<					
	ProgressOctet4					
	ProgressDescription>PI_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/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/1			
Test Purpose name	Number Portability Separate D	Directory Number Addressing N	Method is used	
Test Purpose		Ensure that on receipt of an IAM and the Called Party Number is present and the <b>Nature</b>		
	of address indicator is set to			
		nt) number" or "Network routing		
	number format" and a Called [			
	1	JRI is derived from the Called	Directory Number. '+CC' is	
	inserted before the digitstring:			
		request URI is derived from the	e Called Party Number.	
	'+CC' is inserted before the			
		is added to the request URI.		
		eader 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			
	"Network routing number in national (significant) number format" or			
	"National (significant) number" or			
CID Devementary violation		g number in network specific n		
SIP Parameter values	<u> </u>	C Called Directory Number>; rr	i= +CC Called party	
Comments	number;npdi			
	ISUP	MCCE	Ma	
Message flows	1001	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
		=	100 Trying	
	Apply post test routine			

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 Metho	od is used		
Test Purpose	Ensure that on receipt of an IAM and the Called Directory Number is not present and 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 is 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				
	<ul> <li>The To header</li> </ul>	does not contain the npdi and rr	n parameters.		
ISUP Parameter values	"Netw	of address indicator:	ed with called directory number" or		
SIP Parameter values	INVITE: Request		r>; rn= <+CC Portability Routing		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
		Apply post test ro	← 100 Trying utine		

TP number	TP_201_041	Reference	7.2.3.2.2A1.3		
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/3	-			
Test Purpose name	Number Portability Se	eparate Network Routing Nu	mber Addressing Method is used		
Test Purpose	Ensure that on receipt of an IAM and the Network Routing Number is present and the Nature of address indicator is set to: "Network routing number in national (significant) number format" or "Network routing number in network specific number format" and a Called Party Number, an INVITE is sent.  The userpart of the request URI is derived from the Called Party Number. '+CC' is inserted before the digitstring:  The rn parameter of the request URI is derived from the Network Routing Number. '+CC' is inserted before the digitstring.  The npdi URI parameter is added to the request URI.				
	· ·	The userpart of the <b>To header</b> field is derived from the Called Party 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"  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	-	ne  <+CC Called Party Numl er>;npdi	per>; rn= <+CC Network Routing		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	→ Apply post test	→ INVITE ← 100 Trying routine		

TP number	TP_201_042	Reference	7.2.3.2.2B.1		
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/			
Selection criteria	PICS 6.2.2/5 AND PICS 6.2.2	/8			
Test Purpose name	Carrier selection: Mapping of parameter	Carrier selection: Mapping 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 value of the Transit Network Selection parameter is sent in the <b>cic</b> URI parameter of the <b>Request URI</b> of the sent INVITE request.				
ISUP Parameter values	IAM: Transit Network Selection				
SIP Parameter values	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 an IMEI or an IMEISV as present in the MEI content in the Application Transport parameter.			
ISUP Parameter values	IAM:  APP application context identifier = '0000111'  '00000001' (Mobile Equipment Identifier: MEI) Length indicator Compatibility information Mobile station Equipment Identity [TAC] [SNR] [CD/SD] (IMEI) or International Mobile station Equipment Identity and Software Version			
SIP Parameter values	INVITE:  Contact: [contact address]  or	SNR] [SVN] (IMEISV) ;+sip.instance="urn:gsma:ime ;+sip.instance="urn:gsma:ime		
Comments	Contact: [contact duaress]	, resp.metarice= arri.gema.ime	[17.0][0141]	
Message flows	ISUP	MGCF	Mg	
Incodege news	IAM →	₩661	INVITE	
		<del>-</del>	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_of_COT/				
Selection criteria	PICS 6.2.1/3				
Test Purpose name	COT received	d after INVITE was	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	INVITE:				
	Supported SDP	a=des:qos none r OR	none e none atory local sendrecv		
	183: Require: 100rel SDP				
	UPDATE: SDP	a=des:qos none r OR	e none atory local sendrecv		
	200 OK UPD. SDP	a=curr:qos local s a=curr:qos remote a=des:qos option OR a=des:qos option	e sendrecv al local sendrecv	<del>e</del> cv	
Comments					
Message flows	IAM COT	• →	MGCF	Mg  → INVITE  ← 100 Trying  ← 183 Session Progress  → PRACK  ← 200 OK (PRACK)  → UPDATE  ← 200 OK(UPDATE)	
			Apply post test r	outine	

## 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 a	ddress signalling by the expiry o	f Timer T i/w1			
Test Purpose	Ensure that after exp	iry of Timer T i/w1 after the last	address signalling information was			
	received, an ACM is	sent and the Called party's statu	s 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	SAM →				
		T i/w1 running				
	SAM	<b>→</b>				
		T i/w1 running				
	ACM ← T i/w1 expired					
		→ INVITE				
		← 100 Trying				
		Apply post test ro	utine			

TP number	TP_203_002	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/			
Selection criteria					
Test Purpose name	An ACM is sent after a 180 Rin				
Test Purpose	Ensure that on receipt of a 180	Ringing provisional respo	nse without P-Early-Media		
	free'. The ringing tone is sent b	header, 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		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	<b>←</b> /	Ringing tone			
	Apply post test routine				

TP number	TP_203_003	Refe	rence	7.2.3.2.4	1	
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/23	U= =				
Test Purpose name	180 received, a P-E	arly-Media head	er 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'. The ringing tone is sent by the SUT.					
ISUP Parameter values	ACM: Called party's	s status indicator	= subscriber free			
SIP Parameter values	180: P-Early-Media: inactive					
Comments						
Message flows	ISUP		MGCF		Mg	
· ·	IAM	<b>→</b>	<b>→</b>	INVITE 100 Trying	· ·	
	ACM	<b>←</b> <b>←</b> Rinair	eg tone	180 Ringing		
			ply post test rout	ine		

TP number	TP_203_004	Reference		7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Ser	nding_of_ACM/				
Selection criteria	PICS 6.2.1/14 AND PIC	S 6.2.1/23				
Test Purpose name	180 received, a P-Early-	-Media header not autho	rize early m	edia is prese	ent	
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 sta	tus indicator = subscribe	er free			
SIP Parameter values	180	ivo				
Comments	P-Early-Media: inact	ive				
Comments						
Message flows	ISUP	MGCF			Mg	
	IAM	<b>→</b>	→ IN\	√ITE		
			<b>←</b> 100	0 Trying		
	ACM ← 180 Ringing					
	Early media					
		Apply post te	st routine	·		

TP number	TP_203_005	R	eference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending of ACM/				
Selection criteria	PICS 6.2.1/23 AND	(PICS 6.3.2/5	OR PICS 6.3.2/27)			
Test Purpose name			eader authorize early r			
Test Purpose	authorizing backwa set to 'no indication' information indicato	Ensure that on receipt of a 181 Call is Being Forwarded and a P-Early-Media is present authorizing backward early media, an ACM is sent. The Called party's status indicator is set to 'no indication' and an optional backward call indicator is present, the In-band information indicator is set to 'in-band information or appropriate pattern is now available'. The SUT does not generate the awaiting answer indication.				
ISUP Parameter values		ACM: Called party's status indicator = no indication oBCi = in-band information or appropriate pattern is now available				
SIP Parameter values	181 P-Early-Media: 9	sendonly				
Comments						
Message flows	ISUP IAM ACM Early media	<b>→ ← ←</b>	MGCF	Mg INVITE 100 Trying 181 Call is Being Forwarded Early media		
			Apply post lest rout			

TP number	TP_203_006	Refere	nce	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call	SUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/23	PICS 6.2.1/23				
Test Purpose name	183 received, a P-E	arly-Media header	authorize early r	media is present		
Test Purpose	authorizing backwar set to 'no indication' information indicator	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present authorizing backward early media, an ACM is sent. The Called party's status indicator is set to 'no indication' and an optional backward call indicator is present, the In-band information indicator is set to 'in-band information or appropriate pattern is now available'. The SUT does not generate the awaiting answer indication.				
ISUP Parameter values		ACM: Called party's status indicator = no indication oBCi = in-band information or appropriate pattern is now available				
SIP Parameter values	183 P-Early-Media: s					
Comments		•				
Message flows	ISUP IAM ACM Early media	<b>→ ← ←</b>	GCF	Mg INVITE 100 Trying 183 Session Progress Early media ine		

TP number	TP_203_006A	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Se	SUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9				
Test Purpose name	183 received, a Reason	n header 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 si Cause indicator Cause value [cause value]		tion			
SIP Parameter values	183 Reason: Q850;caus	se=[cause value]				
Comments	·	•				
Message flows	ISUP	MGCF	Mg			
	IAM	<del>)</del>	→ INVITE ← 100 Trying			
	ACM	<del>(</del>	← 183 Session Progress			
	Early media	Early media ← Early media				
		Apply post te	st routine			

TP number	TP_203_007		Reference		7.2.3.2.4	4	
TSS reference	ISUP-SIP/Basic call/	SUP-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 expiry of timer T i/w2 an ACM is sent. The Called party's status indicator is set to 'no indication'.					
ISUP Parameter values	ACM: Called party's	status in	dicator = no indicat	ion			
SIP Parameter values							
Comments							
Message flows	ISUP		MGCF			Mg	
	IAM	<b>→</b>	T i/w2 started	<b>→</b>	INVITE 100 Trying	_	
	ACM	<b>←</b>	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	g_of_ACM/			
Selection criteria	PICS 6.2.1/15				
Test Purpose name	MGW plays out early media	associated with the Alert-In	nfo header		
Test Purpose	Ensure that the MGW plays an early media file which is associated with the URL in the Alert-Info header contained in a received 180 Ringing response.				
ISUP Parameter values					
SIP Parameter values	180: Alert-Info: < Media re	source URL>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routi	ne		

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 AND PICS 6.2.	1/23			
Test Purpose name	The SUT terminates the send	ing of awaiting answer indication	on		
Test Purpose	Ensure that the SUT terminates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header does not authorize backward early media. The sending awaiting answer indication is disabled.				
ISUP Parameter values		-			
SIP Parameter values	183 : P-Early-Media: inactive				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →		/ITE ) Trying		
	ACM ← Ringing ton	T i/w2 expired ee	, G		
		<b>←</b> 183	3 Session Progress		
	Apply post test routine				

TP number	TP_203_010	Refere	nce	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/16 AND	PICS 6.2.1/23				
Test Purpose name	The SUT initiates th	ne sending of awaiting	ng answer indica	ation		
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header authorizes backward early media.					
ISUP Parameter values						
SIP Parameter values	183 : P-Early-Media	a: sendonly				
Comments						
Message flows	ISUP	M	GCF	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	ine		

TD 202 011	Poforonco	7.2.3.2.5.1				
		[7.2.3.2.3.1				
ISUP-SIP/Basic call	ISUP-SIP/Basic cail/Sending_or_ACW/					
180 received, coding	g of Backward call indicator in A	CM TMR speech or 3,1 kHz audio				
	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.					
Ensure that on recei	ipt of a 180 Ringing response, ar	n ACM is sent and the Backward call				
indicator is set to the	e following values:					
<ul> <li>Charge indicato</li> </ul>	or = charge (10)					
<ul> <li>Called party's st</li> </ul>	tatus indicator = subscriber free	(01)				
		• •				
		` ,				
_	•	• •				
		` ,				
	•	• •				
Echo control device indicator = incoming echo control device included (1).						
IAM: Transmission i	viedium Requirement indicator =	speech or 3,1 kHz				
ISUP	MGCF	Mg				
IAM	<b>→</b>	→ INVITE				
	•	← 100 Trying				
ACM	<b>←</b>	← 180 Ringing				
Apply post test routine						
	180 received, coding IAM with Transmiss Ensure that on receindicator is set to the Charge indicator Called party's s Called party's c End-to-end met Interworking ince ISDN user party ISDN access in Echo control de IAM: Transmission I	ISUP-SIP/Basic call/Sending_of_ACM/  180 received, coding of Backward call indicator in AG IAM with Transmission Medium Requirement indicate Ensure that on receipt of a 180 Ringing response, ar indicator is set to the following values:  • Charge indicator = charge (10)  • Called party's status indicator = subscriber free  • Called party's category indicator = no indication  • End-to-end method indicator = no end-to-end medicator = no end-to-end information indicator = no end-to-end ISDN user part/BICC indicator = ISDN user part ISDN access indicator = terminating access nor ■ Echo control device indicator = incoming echo collam: Transmission Medium Requirement indicator = ISUP ISUP ISUP ISUP ISUP ISUP ISUP ISUP				

TP number	TP_203_012	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.3.2/5 OR PICS 6.3.2/27					
Test Purpose name	181 received, coding of Backw	ard call indicator in ACM	TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Medium	n Requirement indicator=s	speech or 3,1 kHz received.			
	Ensure that on receipt of a 181	Call is Being forwarded r	esponse, an ACM is sent and the			
	Backward call indicator is set to	the following values:				
	<ul> <li>Charge 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>	licator = no indication (00)				
	<ul> <li>End-to-end method indica</li> </ul>	• End-to-end method indicator = no end-to-end method available (00)				
	<ul> <li>Interworking indicator = inf</li> </ul>	terworking encountered (1	)			
	<ul> <li>End-to-end information inc</li> </ul>	dicator = no end-to-end inf	formation available (0)			
	<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>					
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>					
	Echo control device indicator = incoming echo control device included (1).					
ISUP Parameter values	IAM: Transmission Medium Re	equirement indicator = spe	ech or 3,1 kHz			
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	ne			

TP number	TP_203_013	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sendi	ng_of_ACM/	1			
Selection criteria	PICS 6.2.1/23					
Test Purpose name	183 received, coding of Ba	ackward 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 indicator = incoming echo control device included (1).  IAM: Transmission Medium Requirement indicator = speech or 3,1 kHz					
SIP Parameter values	183: P-Early-Media: <backward authorized="" early="" media=""></backward>					
Comments		•				
Message flows	ISUP	MGCF	Mg			
	ACM	<b>←</b>	INVITE 100 Trying 183 Session Progress			
		Apply post test routi	ine			

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	n Requirement indicator=6	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>	tor = no end-to-end metho	od 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)				
	<ul> <li>Echo control device indicator = incoming echo control device not included (0).</li> </ul>				
ISUP Parameter values	IAM: Transmission Medium Re	<u> </u>			
SIP Parameter values		•			
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	→	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routing			

TP number	TP_203_015	Referen	се	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 A	ND PICS 6.3.2	/5 OR PICS 6.3.2/27	
Test Purpose name	181 received, codi	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 rec	eipt of a 181 Call is B	eing forwarded	response, an ACM is sent and the	
	Backward call indi	cator is set to the follo	wing values:		
	<ul> <li>Charge indica</li> </ul>	ntor = charge (10)			
	<ul> <li>Called party's</li> </ul>	status indicator = no	indication (00)		
	<ul> <li>Called party's</li> </ul>	category indicator = r	no indication (00	0)	
	<ul> <li>End-to-end m</li> </ul>	ethod indicator = no e	nd-to-end meth	od available (00)	
	<ul> <li>Interworking in</li> </ul>	ndicator = interworking	g 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)				
	<ul> <li>Echo control device indicator = incoming echo control device not included (0).</li> </ul>				
ISUP Parameter values	IAM: Transmission	n Medium Requiremer	nt indicator = 64	kBit/s unrestricted	
SIP Parameter values					
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
	ACM	<b>←</b>	<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 NOT PICS	6.2.1/18 AND PICS 6.2.1	/23	
Test Purpose name	183 received, coding of Backw	ard call indicator in ACM	TMR 64 kBit/s unrestricted	
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 183 Session Progress response containing a P-Early-Media header, an ACM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)  Echo control device indicator = incoming echo control device not included (0).			
ISUP Parameter values	IAM: Transmission Medium Re	equirement 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	
	ACIVI	Apply post test routi	183 Session Progress ne	

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 recei	ipt of a 180 Ringing response	e, an ACM is sent and the Backward call	
	indicator is set to the	e following values:		
	<ul> <li>Charge indicate</li> </ul>	or = charge (10)		
	<ul> <li>Called party's s</li> </ul>	tatus indicator = subscriber f	ree (01)	
	<ul> <li>Called party's c</li> </ul>	ategory indicator = no indica	tion (00)	
	<ul> <li>End-to-end met</li> </ul>	thod indicator = no end-to-en	d method available (00)	
	<ul> <li>Interworking inc</li> </ul>	dicator = no interworking er	countered (0)	
	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>			
	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 I	Medium Requirement indicat	or = 64 kBit/s unrestricted	
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM → INVITE			
	← 100 Trying			
	ACM	<b>←</b>	← 180 Ringing	
		Apply post tes	st 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 AND PICS 6.3.2/5 OF	R PICS 6.3.2/27		
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 181 Call is Being forwarded	response, an ACM is sent and the		
	Backward call indicator is	s set to the following values:			
	<ul> <li>Charge indicator = c</li> </ul>	harge (10)			
	<ul> <li>Called party's status</li> </ul>	indicator = no indication (00)			
	<ul> <li>Called party's categorial</li> </ul>	ory indicator = no indication (0	0)		
	<ul> <li>End-to-end method</li> </ul>	indicator = no end-to-end meth	nod available (00)		
	<ul> <li>Interworking indicator = no interworking encountered (0)</li> </ul>				
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part used all the way (1)				
	ISDN access indicator = terminating access ISDN (1)				
	<ul> <li>Echo control device indicator = incoming echo control device not included (0).</li> </ul>				
ISUP Parameter values	IAM: Transmission Medi	um Requirement indicator = 64	4 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			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	_		
Test Purpose name	183 received, coding of Backw		TMR 64 kBit/s unrestricted	
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 183 Session Progress response containing a P-Early-Media header, an ACM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)			
ISUP Parameter values	<ul> <li>Echo control device indicator = incoming echo control device not included (0).</li> <li>IAM: Transmission Medium Requirement indicator = 64 kBit/s unrestricted</li> </ul>			
SIP Parameter values	183: P-Early-Media: <backward authorized="" early="" media=""></backward>			
Comments		,		
Message flows	ISUP MGCF Mg			
	IAM → ACM ←	<b>→</b>	INVITE 100 Trying 183 Session Progress	
		Apply post test routing	ne	

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	r light Eayor Compatibilit	j = 1 additino Group 2/0			
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE 100 Trying		
	ACM ←	÷	180 Ringing		
	Apply post test routine				

TP number	TP_203_021	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic ca	II/Sending_of_ACM/			
Selection criteria	PICS 6.3.2/5 OR P	PICS 6.3.2/27			
Test Purpose name	181 received, codi	ng of Backward call indica	ator 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	IAM: Transmission Medium Requirement indicator = 3,1 kHz				
	High Layer Compatibility = Facsimile Group 2/3				
SIP Parameter values		•			
Comments					
Message flows	ISUP	ISUP MGCF Mg			
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
	ACM ← 181 Call is Being forwarded				
		Apply pos	st test routine		

TP number	TP_203_022	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria				
Test Purpose name	183 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 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	<ul> <li>Echo control device indicator = incoming echo control device not included (0).</li> <li>IAM: Transmission Medium Requirement indicator = 3,1 kHz</li> <li>High Layer Compatibility = Facsimile Group 2/3</li> </ul>			
SIP Parameter values	183: P-Early-Media: <backward authorized="" early="" media=""></backward>			
Comments				
Message flows	ISUP MGCF Mg			
	ACM ←	<b>←</b> 1 <b>←</b> 1	NVITE 00 Trying 83 Session Progress	
		Apply post test routine		

TP number	TP_203_023	Reference	7.2.3.2.5.1		
			Table 7.2.3.2.5.1.1		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 1 into Backwa	ard call indicator in ACM		
Test Purpose			KML ProgressIndicator is present,		
	the value 1 is mapped into the	Backward call indicator p	present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part not used a</li> </ul>	all the way (0).			
ISUP Parameter values	<b>ACM:</b> ISDN User Part indicate	or			
	ISDN User Part not	used all the way			
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	ProgressOctet4				
	ProgressDescription				
Comments		ot 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>	<b>←</b>	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_c	of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name			Backward call indicator in ACM		
Test Purpose			(ML 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</li> </ul>	all the way (1)			
	ISDN access indicator				
	<ul> <li>Terminating access n</li> </ul>	on-ISDN (0).			
ISUP Parameter values		ACM: ISDN User Part indicator			
	ISDN User Part use	ed all the way			
	ISDN access indicator				
		Terminating access non-ISDN			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	_ CodingStandard>00	)<			
	ProgressOctet4				
	ProgressDescription>0000010<				
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>	180 Ringing		
		Apply post test routi	ne		

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/	<u> </u>			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progr	ressIndicator 7 in 180 into	Backward call indicator in ACM			
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,					
	the value 7 is mapped into th	e Backward call indicator	present in the ACM:			
	ISDN User Part indicator					
	<ul> <li>ISDN User Part use</li> </ul>	d all the way (1)				
	ISDN access indicator					
	<ul> <li>Terminating access</li> </ul>	ISDN (1)				
	Interworking indicator					
	<ul> <li>no interworking enc</li> </ul>					
ISUP Parameter values		ACM: ISDN User Part indicator				
	ISDN User Part u	_				
	ISDN access indicato					
		Terminating access ISDN				
		Interworking indicator				
0.5.5	no interworking encountered					
SIP Parameter values	180:					
	xml version="1.0" encoding</th <th>g="utt-8""?&gt;</th> <th></th>	g="utt-8""?>				
	PSTN Dragrandingtor					
	ProgressIndicator					
	ProgressOctet3 CodingStandard>(	20-				
	ProgressOctet4	00<				
	ProgressDescription	on> <b>0000111</b> <				
Comments	· ·	Progress Information: value not specified. Meaning 'terminating user is ISDN'.				
Message flows	ISUP	MGCF	Mg			
<b>U</b>	IAM →	<b>→</b>	INVITE			
	← 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_o	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 in 180 into optional Backward call indicator in ACM				
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 8 is mapped into the Optional backward call indicator present in the ACM:  Optional backward call indicators  In-band information indicator  • in-band information or an appropriate pattern is now available.				
ISUP Parameter values	ACM: Optional backward call				
	In-band information indicator				
	in-band informat	tion or an appropriate patte	rn is now available"		
SIP Parameter values	180:				
	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 → INVITE				
		<b>←</b>	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_o	of_ACM/	-		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 1 in 183 into E	Backward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is			
	present, the value 1 is mapped	I into the Backward call in	dicator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part not used a</li> </ul>	all the way (0).			
ISUP Parameter values	ACM: ISDN User Part indicate	or			
	ISDN User Part not	t used all the way			
SIP Parameter values	183: P-Early-Media: sendon	У			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	ProgressÖctet4				
	ProgressDescription				
Comments	Progress Information: 'Call is n	ot end-to-end ISDN: furth	er call progress information may		
	be available in-band'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	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			ne PSTN XML ProgressIndicator is			
	present, the value 2 is mapped	l into the Backward call ir	ndicator present in the ACM:			
	ISDN User Part indicator					
	<ul> <li>ISDN User Part used</li> </ul>	all the way (1)				
	ISDN access indicator					
	<ul> <li>Terminating access n</li> </ul>	. ,				
ISUP Parameter values	<b>ACM:</b> ISDN User Part indicate	- ·				
	ISDN User Part use	ed all the way				
		ISDN access indicator				
	Terminating acces					
SIP Parameter values	183: P-Early-Media: sendonly					
		<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00	J<				
	ProgressOctet4 ProgressDescription	. 0000010				
Comments			1			
Message flows	Progress Information: 'Destination address is non-ISDN'.  ISUP MGCF Ma					
Wessage nows	IAM →	WIGGF →	Mg INVITE			
	IAW	<del>-</del>	=			
	ACM ←	<del>-</del>	100 Trying			
	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 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 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 encou</li> </ul>	ntered (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 xml version="1.0" encoding="utf-8"? 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 →		INVITE		
			100 Trying		
	ACM ← 183 Session Progress				
		Apply post test routine	9		

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 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 8 is mapped	into the Optional backwa	ard call indicator present in the		
	ACM:				
	Optional backward call indic	cators			
	In-band information indi	cator			
	<ul> <li>in-band information</li> </ul>	or an appropriate pattern	n is now available.		
ISUP Parameter values	ACM: Optional backward call indicators				
	In-band information indicator				
	in-band informati	on or an appropriate patt	ern is now available"		
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	ProgressÖctet4				
	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 ←	<b>←</b>	183 Session Progress		
		Apply post test routing	<u> </u>		

TP number	TP_203_031	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 hea	der in 183 into Optional b	ackward call indicator in ACM			
Test Purpose	Ensure that on receipt of a 183	B Session Progress and th	ne P-Early-Media header			
	authorizing backward early me	dia is mapped into the Ba	ackward call indicator present in the			
	ACM:					
	Optional backward call indi	cators				
	In-band information ind	icator				
	<ul> <li>in-band information</li> </ul>	n or an appropriate patter	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	<u>information or an appropr</u>	riate 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 bac	kward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded and the P-Early-Media authorizing backward early media is mapped into the Backward call indicator present in the ACM:  Optional backward call indicators  In-band information indicator  • in-band information or an appropriate pattern is now available.				
ISUP Parameter values	ACM: Optional backward call indicators In-band information 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 appropriat	e pattern is now available'.		
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
		<b>←</b> 1	00 Trying		
	ACM ←	<b>←</b> 1	81 Call is Being Forwarded		
	Apply post test routine				

TP number	TP_203_033	Reference	7.2.3.2.5.4		
			Table 7.2.3.2.5.4.1		
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 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 1 is mapped into the	Access Transport Param	eter containing the Progress		
	Indicator value 1 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description</li> </ul>	ion='0000001'.			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descr	iption='0000001'			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	ProgressOctet4				
	ProgressDescriptio	n> <b>0000001</b> <			
Comments			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>	180 Ringing		
		Apply post test routi	0 0		
i .	Apply poor tool routillo				

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	of_ACM/	·		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 180 into the	e Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 2 is mapped into the	Access Transport Parame	ter containing the Progress		
	Indicator value 2 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description=</li> </ul>	='0000010'.			
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	<			
	ProgressÖctet4				
	ProgressDescription	>000010<			
Comments	Progress Information: 'Destinat				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>+</b>	100 Trying		
	ACM ←		180 Ringing		
		Apply post test routine			
	The Aberra				

TP number	TP_203_035	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_o	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				
	the value 7 is not mapped into	the Access Transport Parame	ter in the ACM.		
ISUP Parameter values	<b>ACM:</b> No Access Transport Pa	rameter present			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	→ INV	ITE		
		<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	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 180 into t	he Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 8 is mapped into the	Access Transport Parame	eter containing the Progress		
	Indicator value 8 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description</li> </ul>	on='0001000'.			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri	otion='0001000'			
SIP Parameter values	180:				
	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		
		<b>←</b>	100 Trying		
	ACM ← 180 Ringing				
	Apply post test routine				

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/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 183 into the A	Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 183 Session Progress and the P-Early-Media header and PSTN				
	XML ProgressIndicator is present, the value 1 is mapped into the Access Transport				
	Parameter containing the Prog	ress Indicator value 1 in the A	ACM:		
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description=</li> </ul>	='000001'.			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000001'			
SIP Parameter values	183: P-Early-Media: sendonly				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Call is n	ot end-to-end ISDN: further c	all progress information may		
	be available in-band'.				
Message flows	ISUP	MGCF	Mg		
	IAM →	→ IN	/ITE		
		← 100	0 Trying		
	ACM ←	<b>←</b> 183	3 Session Progress		
	Apply post test routine				

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_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	he 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	he ACM:			
	Access Transport Parameter					
	Progress Indicator					
	<ul> <li>Progress Description=</li> </ul>	='0000010'.				
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>0000010<					
Comments	Progress Information: 'Destinat					
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<del>-</del>	183 Session Progress			
	Apply post test routine					

TP number	TP_203_039	Reference	7.2.3.2.5.4			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9				
Test Purpose name	PSTN XML ProgressIndicator 7	in 183 is not mapped into the	ne Access Transport Parameter			
Test Purpose	Ensure that on receipt of a 183					
	present, the value 7 is not map	ped into the Access Transpo	rt Parameter in the ACM.			
ISUP Parameter values	<b>ACM:</b> No Access Transport Pa	rameter present				
SIP Parameter values	183: P-Early-Media: sendonly	/				
	xml version="1.0" encoding=</th <th>"utf-8"?&gt;</th> <th></th>	"utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	ProgressOctet4					
	ProgressDescription>0000111<					
Comments	Progress Information: value not	t specified. Meaning 'termina	ting user is ISDN'.			
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b> IN	VITE			
		<b>←</b> 10	0 Trying			
	ACM ←	<b>←</b> 18	3 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_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	the ACM:				
	Access Transport Parameter						
	Progress Indicator						
	<ul> <li>Progress Description</li> </ul>	on='0001000'.					
ISUP Parameter values	ACM: Access Transport						
	Progress Indicator						
	Progress Descrip	otion='0001000'					
SIP Parameter values	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 i	nformation or an appropi	iate pattern is now available'.				
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 203 041	Referer	ice	2.5/ [7]		
TSS reference	ISUP-SIP/Basic call/Sending of ACM/					
Selection criteria	PICS 6.2.1/5 AND P	ICS 6.2.4/1 AND N	OT PICS 6.2.4/8	3		
Test Purpose name	Fallback performed i	in SUT				
Test Purpose	Ensure that on receipt of an IAM containing an TMR prime and an USI Prime and the TMR is set to '64 kBit/s preferred' and the succeeding (SIP) network does not have the capability of performing fallback, an ACM is sent and the TMU parameter is set to the value of the TMR prime parameter received in the IAM.					
ISUP Parameter values	ACM: Transmission Medium Used speech or 3,1 kHz audio					
SIP Parameter values						
Comments	Progress Information 'In-band information or an appropriate pattern is now available'.					
Message flows	ISUP	MC	SCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	Apply post test routine					

## 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	s received and an ACM was sen	t before			
Test Purpose	Ensure that on receipt of a 1	80 Ringing a CPG message is s	ent when an ACM was sent			
	before.					
ISUP Parameter values	ACM: BCi Called party statu	s = no indication				
	<b>CPG:</b> Event indication = ALE	ERTING				
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	T i/w1 started				
	ACM ←	· · · · · · · · · · · · · · · · · · ·	/ITE			
	CPG ←	<b>←</b> 180	) Trying ) Ringing			
	Apply post test routine					

TP number	TP_204_002		Reference		7.2.3.2.6.0		
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria							
Test Purpose name	181 received, CPC	3 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 indica	ation = progre	SS				
SIP Parameter values	181: P-Early-Me	dia: sendonly	/				
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		
	early media early media						
	Apply post test routine						

TP number	TP_204_00	3	Reference		7.2.3.2.6	5.0	
TSS reference	ISUP-SIP/B	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria							
Test Purpose name	Early media	is not authorized	if no P-Early-Medi	a heade	er is present in t	he 180	
Test Purpose	a P-Early-M	Ensure that on receipt of a 180 Ringing a CPG is sent. If the 180 Ringing does not contain a P-Early-Media header authorizing early media, the SUT initiates sending of awaiting answer indication.					
ISUP Parameter values							
SIP Parameter values	180: no P	-Early-Media hea	der present				
Comments							
Message flows	ISU	JP	MGCF			Mg	
	IAM	<b>→</b>	T i/w1 started				
	ACM	<b>←</b>	T i/w1 expired	<b>→</b>	INVITE		
	CPG	<b>←</b>		<b>←</b>	180 Ringing		
	ringing tone						
	Apply post test routine						

TP number	TP_204_004	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_CPG/			
Selection criteria					
Test Purpose name	Early media is not authorized i 180	f P-Early-Media header does n	ot authorize early media in the		
Test Purpose	Ensure that on receipt of a 180 Ringing a CPG is sent. If the 180 Ringing contains a P-Early-Media header not authorizing early media, the SUT initiates sending of awaiting answer indication.				
ISUP Parameter values					
SIP Parameter values	180: P-Early-Media: inactive				
Comments					
Message flows			<b>Mg</b> ITE Ringing		
		Apply post test routine			

TP number	TP_204_005	Reference	7.2.3.2.6.0			
TSS reference	ISUP-SIP/Basic call/Send	ding_of_CPG/	·			
Selection criteria						
Test Purpose name	Early media is authorized	l if P-Early-Media header authori	ze early media in the 180			
Test Purpose	P-Early-Media header au	Ensure that on receipt of a 180 Ringing a CPG is sent. If the 180 Ringing contains a P-Early-Media header authorizing early media, the SUT terminates sending of awaiting answer indication and connects through the early media in backward direction.				
ISUP Parameter values						
SIP Parameter values	180: P-Early-Media: se	ndonly				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	T i/w1 started				
			NVITE 180 Ringing			
	early media early media					
	Apply post test routine					

TP number	TP 204 006	Reference	7.2.3.2.6.0		
TSS reference	ISUP-SIP/Basic call/Sendir				
Selection criteria	PICS 6.2.1/14	<del> </del>			
Test Purpose name	The SUT has the knowledg	ge that the call is transited to a F	PSTN network, the awaiting		
	answer indication is not ge	nerated	-		
Test Purpose		not generate the awaiting answ			
	knowledge that the call is t	ransited to a PSTN network and	d the early media is not		
	authorized.				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	T i/w1 started			
	ACM <b>←</b>	· · · · · · · · · · · · · · · · · · ·	NVITE 00 Trying		
	CPG ←		80 Ringing		
	early media early media				
	Apply post test routine				

TP number	TP_204_007	Reference	е	7.2.3.2.6.0	
TSS reference	ISUP-SIP/Basic call/Se	nding_of_CPG/			
Selection criteria					
Test Purpose name	Early media is authorize	ed if P-Early-Medi	a header autho	orize 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:	sendonly			
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<del>(</del>	<b>←</b>	180 Ringing	
	CPG	<b>←</b>	<b>←</b>	183 Session Progress	
	early media early media				
	,	Apply post test routine			

TP number	TP_204_008	Re	ference	7.2.3.2.6.0	
TSS reference	ISUP-SIP/Basic call/S	Sending_of_C	PG/		
Selection criteria					
Test Purpose name	Early media is author	ized if P-Early	/-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	<b>←</b>	<b>←</b>	181 Call is Being Forwarded	
	early media early media				
	Apply post test routine				

TP number	TP_204_009	Reference		7.2.3.2.6.0		
TSS reference	ISUP-SIP/Basic cal	l/Sending_of_CPG/		•		
Selection criteria		-				
Test Purpose name	The SUT change th received in 180	e authorization of early media	a as ind	licated in the P-Early-Media		
Test Purpose	through early media	Ensure that the SUT terminates the sending of awaiting answer indication and connect through early media if the P-Early-Media header indicates authorization in the received 180 Ringing response and early media was not authorized before.				
ISUP Parameter values						
SIP Parameter values	183: P-Early-Med 180: P-Early-Med					
Comments	Í	•				
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 routine					

TP number	TP_204_010	Ref	erence	7.2.3.2.6.0			
TSS reference	ISUP-SIP/Basic of	all/Sending_of_C	PG/	·			
Selection criteria							
Test Purpose name	The SUT change received in 180	the authorization	of early media as inc	dicated in the P-Early-Media			
Test Purpose	authorization of e	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		edia: sendonly edia: inactive					
Comments							
Message flows	ISUP IAM ACM early n	<b>←</b> ringing tone	MGCF	Mg INVITE 183 Session Progress early media 180 Ringing			
		А	pply post test routi	ne			

TP number	TP 204 010A	Reference	7.2.3.2.6.1		
TSS reference	ISUP-SIP/Basic call/Sending of		7.2.6.2.6.1		
Selection criteria	PICS 6.2.1/9	_			
Test Purpose name	Reason header received in 183	is mapped into Cause in	dicator parameter in CPG		
Test Purpose			ning a Reason header a CPG is		
-	sent. The cause value indicator	of the Cause indicators p	parameter in the CPG is set to the		
			ne received 183 Session Progress.		
ISUP Parameter values	CPG: Event indicators		<u>-</u>		
	in-band info or appro	priate pattern now availa	ble		
	Cause indicators				
	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 routing	S .		

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 Progre	ssIndicator 1 in 183 into ATF	P in the CPG		
Test Purpose	Ensure that on receipt of a PS				
	Progress, a CPG is sent and a	n Access Transport Parame	ter is present containing a		
	Progress Indicator #1.				
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000001'			
SIP Parameter values	INVITE:				
	P-Early-Media: supported				
	183:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000001<			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> IN	IVITE		
	ACM ←	<b>←</b> 18	80 Ringing		
	CPG ←	<b>←</b> 18	83 Session Progress		
	Apply post test routine				

TP number	TP 204 012	Reference	7.2.3.2.6.1	
Ti Tidilibo.	11 _20 1_0 12	reasisting.	Table 7.2.3.2.6.1.1	
TSS reference	ISUP-SIP/Basic call/Send	ling of CPG/		
Selection criteria	PICS 6.2.1/5	<del></del>		
Test Purpose name	Mapping of PSTN XML P	rogressIndicator 2 in 183 into	ATP in the CPG	
Test Purpose		a PSTN XML ProgressIndicat		
	Progress, a CPG is sent a Progress Indicator #2.	and an Access Transport Para	ameter is present containing a	
ISUP Parameter values	CPG: Access Transport			
	Progress Indica	ator		
	Progress D	escription='0000010'		
SIP Parameter values	INVITE:			
	P-Early-Media: suppo	rted		
	183:			
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th>	ding="utf-8"?>		
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescr	ription> <b>0000010</b> <		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM -	<b>→</b>	INVITE	
		<b>+ +</b>	180 Ringing	
	CPG	<b>+ +</b>	183 Session Progress	
	Apply post test routine			

TP number	TP_204_013	Reference	7.2.3.2.6.1	
			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	Mapping of PSTN XML Progre			
Test Purpose	Ensure that on receipt of a PS			
	Progress, a CPG is sent and a	an Access Transport Para	ameter is present containing a	
	Progress Indicator #4.			
ISUP Parameter values	CPG: Access Transport			
	Progress Indicator			
		iption='0000100'		
SIP Parameter values	INVITE:			
	P-Early-Media: supported			
	400.			
	180:			
	<pre><?xml version="1.0" encoding PSTN</pre></pre>	= uti-8 ?>		
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	n>000001/		
	or	11>0000001<		
	ProgressDescription	n> <b>0000010</b> <		
	183:			
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	n> <b>0000100</b> <		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ACM <b>←</b>	<b>←</b>	180 Ringing	
CPG ← 183 Session Progress				
		Apply post test routi	ine	

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 in	to ATP in the CPG		
Test Purpose	Ensure that on receipt of a PS				
	Progress, a CPG is sent and a	n Access Transport Parar	meter is present containing a		
	Progress Indicator #4.				
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000100'			
SIP Parameter values	INVITE:				
	P-Early-Media: supported				
	100:				
	180:	11.14 O112.			
	<pre><?xml version="1.0" encoding= PSTN</pre></pre>	: uti-8 ?>			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>000001<			
	or				
	ProgressDescription>0000010<				
	183:				
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>			
	PSTN	u. 0			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<del>(</del>	180 Ringing		
	CPG ←	<b>←</b>	183 Session Progress		
		Apply post test routing	ne		

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 Progre	essIndicator 8 in 183 into Ev	ent information in the CPG			
Test Purpose	Ensure that on receipt of a PS		value 8 in a 183 Session r is set to 'In-band information or			
	appropriate pattern is now ava	ailable'.				
ISUP Parameter values	<b>CPG:</b> Event information = In-b	pand information or appropri	ate pattern is now available			
SIP Parameter values	183:	183:				
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
		PSTN				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0001000<					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	NVITE			
	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 PS	ΓΝ XML ProgressIndicator valu	ie 1 in a 180 Ringing, a CPG		
	is sent and an Access Transpo	rt Parameter is present contain	ning a Progress Indicator #1.		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000001'			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	Γ i/w1 started			
	ACM ←	Ti/w1 expired → INVI	TE		
	CPG ←	· <b>←</b> 180	Ringing		
	Apply post test routine				

TP number	TP 204 018	Reference	7.2.3.2.6.1			
	11 _20 1_010	110.0.0.0	Table 7.2.3.2.6.1.1			
TSS reference	ISUP-SIP/Basic call/Sendi	ng of CPG/	radio rizioizio:			
Selection criteria	PICS 6.2.1/5	<u>3</u>				
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 2 in 180 into	ATP in the CPG			
Test Purpose			ator value 2 in a 180 Ringing, a CPG			
_	is sent and an Access Tra	nsport Parameter is present	t containing a Progress Indicator #2.			
ISUP Parameter values	CPG: Access Transport					
	Progress Indica	tor				
	Progress De	escription='0000010'				
SIP Parameter values	180:	180:				
	xml version="1.0" encod</th <th>ding="utf-8"?&gt;</th> <th></th>	ding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
_	ProgressDescri	ption> <b>0000010</b> <				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM = =	T i/w1 started				
	ACM	T i/w1 expired →	NVITE			
	CPG •	<del>-</del> •	180 Ringing			
	Apply post test routine					

IAM → INVITE  ACM ← 183 Session Progress CPG ← 180 Ringing	TP number	TP_204_019	Reference	7.2.3.2.6.1	
Selection criteria         PICS 6.2.1/5           Test Purpose name         Mapping of PSTN XML ProgressIndicator 4 in 180 into ATP in the CPG           Test Purpose         Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 180 Ringing a CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4.           ISUP Parameter values         CPG: Access Transport Progress Indicator Progress Description='0000100'           SIP Parameter values         183:				Table 7.2.3.2.6.1.1	
Test Purpose name Test Purpose Test Purpose Test Purpose Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 180 Ringing a CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4.  CPG: Access Transport Progress Indicator Progress Description='0000100'  SIP Parameter values  183: <pre> <pre> <pre> <pre></pre></pre></pre></pre>			of_CPG/		
Test Purpose  Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 180 Ringing a CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4.  CPG: Access Transport Progress Indicator Progress Description='0000100'  SIP Parameter values  183: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<  180: xml version="1.0" encoding="utf-8"? PSTN ProgressDescription>0000010<  180: xml version="1.0" encoding="utf-8"? PSTN PSTN ProgressDescription>0000010<  180: xml version="1.0" encoding="utf-8"? PSTN PogressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  ISUP MGCF Mg IAM → INVITE  ACM ← 183 Session Progress CPG ← 180 Ringing	Selection criteria				
is sent and an Access Transport Parameter is present containing a Progress Indicator #4.  ISUP Parameter values  CPG: Access Transport	Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 4 in 180 into AT	P in the CPG	
ISUP Parameter values  CPG: Access Transport Progress Indicator Progress Description='0000100'  183: <pre> <pre> <pre> <pre></pre></pre></pre></pre>	Test Purpose				
Progress Indicator			ort Parameter is present con	taining a Progress Indicator #4.	
Progress Description='0000100'   SIP Parameter values	ISUP Parameter values				
183:					
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>			ption='0000100'		
PSTN	SIP Parameter values				
ProgressIndicator			="utf-8"?>		
ProgressOctet4					
ProgressDescription>0000001< or					
or			000004		
ProgressDescription>0000010<  180: <pre></pre>			1>000001<		
180:			. 0000040		
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		ProgressDescription	1>0000010<		
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		180.			
PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  ISUP IAM  ACM ← CPG			-"utf-8"?\		
ProgressIndicator ProgressOctet4 ProgressDescription>0000100<  Comments  Message flows  ISUP IAM  ACM ← CPG			- dti-0 :/		
ProgressOctet4           ProgressDescription>0000100           Comments         ISUP         MGCF         Mg           IAM         →         INVITE           ACM         ←         +         183 Session Progress           CPG         ←         180 Ringing					
ProgressDescription>0000100<					
Comments         ISUP         MGCF         Mg           IAM         →         INVITE           ACM         ←         ±         183 Session Progress           CPG         ←         ±         180 Ringing			n>0000100<		
IAM → INVITE  ACM ← 183 Session Progress CPG ← 180 Ringing	Comments				
IAM → INVITE  ACM ← 183 Session Progress CPG ← 180 Ringing	Message flows	ISUP	MGCF	Mg	
CPG ← 180 Ringing		IAM →	<b>→</b>	_	
CPG ← 180 Ringing					
CPG ← 180 Ringing		ACM ←	<b>←</b> 1	83 Session Progress	
				· ·	
Apply post test routine					

TP number	TP 204 020	Reference	7.2.3.2.6.1			
Transor	11 _204_020	T. C. C. C. C.	Table 7.2.3.2.6.1.1			
TSS reference	ISUP-SIP/Basic call/Sending_o	of CPG/	14010 7.2.0.2.0.1.1			
Selection criteria	PICS 6.2.1/5	<u></u>				
Test Purpose name	No mapping of PSTN XML Pro	ogressIndicator 7 in 180 into A	ATP in the CPG			
Test Purpose			alue 7 in a 180 Ringing, a CPG			
•	is sent and an Access Transpo					
ISUP Parameter values	CPG: Access Transport	•				
	Progress Indicator					
	Progress Descri	ption='0000100'				
SIP Parameter values	183:					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n> <b>0000001</b> <				
	or					
	ProgressDescription	ProgressDescription>0000010<				
	180:					
		_"u+f 0"2>				
	<pre><?xml version="1.0" encoding= PSTN</pre></pre>	= uli-o <i>!&gt;</i>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000111<					
Comments	1 105.0002.000					
Message flows	ISUP MGCF Mg IAM → INVITE					
	ACM ←	<b>←</b> 18	3 Session Progress			
	CPG ←		0 Ringing			
	Apply post test routine					

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 value	ue 8 in a 180 Ringing, a CPG		
	is sent and Event information p	arameter is set to 'In-band info	ormation or appropriate		
	pattern is now available'.				
ISUP Parameter values	<b>CPG:</b> Event information = In-band 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				
	ProgressDescription>0001000<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	Γi/w1 started			
	ACM ←	Γi/w1 expired → INV	ITE		
	CPG ←	<b>←</b> 180	Ringing		
	Apply post test routine				

TP number	TP_204_023		Reference		7.2.3.2.7		
TSS reference	ISUP-SIP/Basic call/	Sending	_of_CPG/				
Selection criteria							
Test Purpose name	Mapping of P-Early-	Media he	eader into Event info	ormation	n parameter in CPG		
Test Purpose	authorizing early me	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 informa	tion = In-	band information of	r approp	oriate pattern is now available		
SIP Parameter values	183: P-Early-Medi	a: sendo	nly				
Comments							
Message flows	ISUP IAM	<b>→</b>	MGCF T i/w1 started		Mg		
	ACM CPG	<b>←</b>	T i/w1 expired  Apply post tes	→ ←	INVITE 183 Session Progress		

TP number	TP_204_024	Reference	7.2.3.2.7.4		
TSS reference	ISUP-SIP/Basic call/Ser	nding_of_CPG/			
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name	180 received, coding of	Backward call indicator in C	CPG TMR speech or 3,1 kHz audio		
Test Purpose	IAM with Transmission N Ensure that on receipt o indicator is set to the foll Charge indicator = 0 Called party's status Called party's categ End-to-end method Interworking indicat End-to-end informat ISDN user part/BIC ISDN access indicat Echo control device	Medium Requirement indicator a 180 Ringing response, a lowing values: charge (10) s indicator = subscriber free gory indicator = no indication indicator = no end-to-end representation indicator = no end-to-eit indicator = ISDN user parties at cor = terminating access no expense indicator = incoming echo	ator = speech or 3,1 kHz received. a CPG is sent and the Backward call  e (01) n (00) method available (00) red (1) nd information available (0) rt not used all the way (0) on-ISDN (0) control device included (1).		
ISUP Parameter values	IAM: Transmission Medium Requirement indicator = speech or 3,1 kHz				
	ACM: Backward call indicator  Called party's status indicator = no indication				
SIP Parameter values	Called party s	status indicator = no indica	allon		
Comments					
Message flows	ISUP	MGCF	Mg		
linessage news	IAM	→ T i/w1 started	<del></del> 9		
	ACM	← T i/w1 expired	→ INVITE		
	CPG	<b>←</b>	← 180 Ringing		
		Apply post test r	outine		

TP number	TP 204 025	Reference	7.2.3.2.7.4		
TSS reference	ISUP-SIP/Basic call/Sending	_of_CPG/			
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18			
Test Purpose name	180 received, coding of Back	ward call indicator in CPG TMR	64 kBit/s unrestricted		
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 = I	um Requirement indicator = 64 k 30 Ringing response, a CPG is s g values:	Bit/s unrestricted received. sent and the Backward call railable (00) ation available (0) d all the way (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		ITE Ringing		
		Apply post test routine			

TP number	TP_204_026	Reference	7.2.3.2.7.4		
TSS reference	ISUP-SIP/Basic call/Sending	g_of_CPG/			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2	.1/18			
Test Purpose name	180 received, coding of Bac	kward 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 = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)  Echo control device indicator = incoming echo control device not included (0).				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator = 64 kBit/s unrestricted  ACM: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values	Called party's sta	tus indicator = no indication			
Comments					
Message flows	ISUP	MGCF	Mg		
moodage nows	IAM →	T i/w1 started	9		
	ACM ← CPG	T i/w1 expired → ← Apply post test routi	INVITE 180 Ringing ne		

TP number	TP_204_027	Reference	7.2.3.2.7.4		
TSS reference	ISUP-SIP/Basic call/S	Sending_of_CPG/			
Selection criteria		<del></del>			
Test Purpose name	180 received, coding	of Backward call indicator in C	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		y cotatae maneate. The manea			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	→ T i/w1 started			
	ACM	← T i/w1 expired	→ INVITE		
	CPG		← 180 Ringing		
		Apply post test re	outine		

## 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	/Sending_of_ANM/		
Selection criteria				
Test Purpose name	Sending of ANM wh	en 200 OK INVITE was rec	eived	
Test Purpose		ceipt of the first 200 OK (IN) been sent, the SUT sends the		f the Address Complete Message ver Message (ANM).
ISUP Parameter values	( · · · · · · · · · · · · · · · · · · ·			i i i i i i i i i i i i i i i i i i i
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 te	st routi	ine

TP number	TP_205_002	Reference	7.2.3.2.8		
TSS reference	ISUP-SIP/Basic call/Sending_	of_ANM/	·		
Selection criteria					
Test Purpose name	200 OK received, coding of B	ackward call indicator in A	NM TMR speech or 3,1 kHz audio		
Test Purpose	IAM with Transmission Medium Requirement indicator = speech or 3,1 kHz received.  Ensure that on receipt of a 200 OK INVITE final response, an ANM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)				
IOUD Barrana (arrandora		ator = Incoming echo cont			
ISUP Parameter values	ACM: Backward call indicato	Requirement indicator = s r s indicator = no indication			
SIP Parameter values	183: P-Early-Media: sendor	nly			
Comments		•			
Message flows	ISUP	MGCF	Mg		
	IAM →	T i/w1 started			
	ACM ←	T i/w1 expired → ←	INVITE 183 Session Progress		
	ANM ←	← → Apply post test routi	200 OK (INVITE) ACK ne		

TP number	TP_205_003	Reference	7.2.3.2.8				
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_ANM/					
Selection criteria	PICS 6.2.4/2 AND N	PICS 6.2.4/2 AND NOT PICS 6.2.1/18					
Test Purpose name	200 OK received, cod	ding of Backward call indicator	in ANM TMR 64 kBit/s unrestricted				
Test Purpose			ator = 64 kBit/s unrestricted received.				
			sponse, an ANM is sent and the				
		tor is set to the following value	S:				
	<ul> <li>Charge indicator</li> </ul>						
		atus indicator = no indication (					
		tegory indicator = no indication	· ·				
		nod indicator = no end-to-end r	` ,				
		cator = interworking encounte					
		mation indicator = no end-to-e	` ,				
		BICC indicator = ISDN user pa					
		licator = terminating access no					
			o control device not included (0).				
ISUP Parameter values		Medium Requirement indicato	or = 64 kBit/s unrestricted				
	ACM: Backward call		otion				
SIP Parameter values	183: P-Early-Media	ty's status indicator = no indicator	alion				
Comments	103. F-Larry-Wedia	a. Seridonly					
Message flows	ISUP	MGCF	Mg				
moodage nowe	IAM	→ T i/w1 started	g				
	17 (17)	2 I I/W I Started					
	ACM ← T i/w1 expired → INVITE						
	← 183 Session Progress						
			3				
	ANM	<b>←</b>	← 200 OK (INVITE)				
			→ ACK				
		Apply post test r	routine				

TP number	TP_205_004	Reference	7.2.3.2.8				
TSS reference	ISUP-SIP/Basic call/Se	ISUP-SIP/Basic call/Sending_of_ANM/					
Selection criteria	PICS 6.2.4/2 AND PIC	S 6.2.1/18					
Test Purpose name	200 OK received, codi	ng of Backward call indicate	or 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 MACM: Backward call in	Medium Requirement indicat					
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				

TSS reference   ISUP-SIP/Basic call/Sending_of_ANM/	TP number	TP_205_005	Reference	7.2.3.2.8			
Test Purpose name  200 OK received, coding of Backward call indicator in ANM HLC "Facsimile Group 2/3"  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  ISUP MGCF Mg  IAM → T i/w1 started  ACM ← T i/w1 expired → INVITE ← 183 Session Progress  ANM ← ← 200 OK (INVITE) → ACK	TSS reference	ISUP-SIP/Basic call/Sending_c	of_ANM/				
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)	Selection criteria						
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  ISUP MGCF Mg  IAM → T i/w1 started  ACM ← T i/w1 expired → INVITE	Test Purpose name	200 OK received, coding of Ba	ckward call indicator in ANM I	HLC "Facsimile Group 2/3"			
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 ← T i/w1 expired → INVITE  ← 183 Session Progress  ANM ← ← 200 OK (INVITE)  → ACK	Test Purpose	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)					
High Layer Compatibility = Facsimile Group 2/3  ACM: Backward call indicator	ISHP Parameter values	<ul> <li>Interworking indicator = int</li> <li>End-to-end information inc</li> <li>ISDN user part/BICC indic</li> <li>ISDN access indicator = to</li> <li>Echo control device indicator</li> </ul>	terworking encountered (1)  licator = no end-to-end inform ator = ISDN user part not use erminating access non-ISDN ( tor = Incoming echo control	ation available (0) d all the way (0) 0) device not included (0).			
SIP Parameter values  Comments  Message flows  ISUP  IAM  ACM  ACM  ACM  ACM  ACM  ACM  ACM	ISOF Farameter values	High Layer Compatibility  ACM: Backward call indicator	y = Facsimile Group 2/3	IZ			
Message flows  ISUP  IAM  → T i/w1 started  ACM  ← T i/w1 expired  → INVITE  ← 183 Session Progress  ANM  ← 200 OK (INVITE)  → ACK	SIP Parameter values						
IAM → T i/w1 started  ACM ← T i/w1 expired → INVITE ← 183 Session Progress  ANM ← 200 OK (INVITE) → ACK	Comments						
<ul> <li>← 183 Session Progress</li> <li>ANM</li> <li>← 200 OK (INVITE)</li> <li>→ ACK</li> </ul>	Message flows			Mg			
→ ACK		ACM ←		· · · =			
		ANM ←		,			

TP number	TD 205 006	Refere	•	7.2.3.2.9.2		
	TP_205_006		ice	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 ProgressIndica	tor 1 in 200 OK	nto ATP in the ANM		
Test Purpose	Ensure that on rece	eipt of a PSTN XML	ProgressIndicat	or value 1 in a 200 OK INVITE,	an	
	ANM is sent and ar	n Access Transport	Parameter is pre	sent containing a Progress		
	Indicator #1.					
ISUP Parameter values	ANM: Access Tran	nsport				
		s Indicator				
		ress Description='00	00001'			
SIP Parameter values	200 OK:	•			-	
	xml version="1.0</th <th>" encoding="utf-8"?</th> <th>&gt;</th> <th></th> <th></th>	" encoding="utf-8"?	>			
	PSTN	<b>3</b>				
	ProgressIndicat	tor				
	ProgressOc					
		sDescription>00000	01<			
Comments	- 3					
Message flows	ISUP	M	GCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			+	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	7.0	_	_			
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)		
			<b>→</b>	ACK		
		Apply	post test rout			

TP number	TP_205_007	Referen	ce	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	Mapping of PSTN X	(ML ProgressIndicate	or 2 in 200 OK i	nto ATP in the ANM
Test Purpose				or value 2 in a 200 OK INVITE, an sent containing a Progress
ISUP Parameter values	ANM: Access Tran	•		
		Indicator ress Description='000	00010'	
SIP Parameter values	200 OK: xml version="1.0"<br PSTN	" encoding="utf-8"?>		
	ProgressIndicate ProgressOct Progress		0<	
Comments				
Message flows	ISUP IAM ACM	→ ←	GCF → ←	Mg INVITE 100 Trying 180 Ringing
	ANM	←	← → post test routi	200 OK (INVITE) ACK ne

TP number	TP_205_008	Refe	ence	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/S					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XM	L ProgressIndia	cator 4 in 200 OK i	nto ATP in the ANM		
Test Purpose				or value 4 in a 200 OK INVITE, an		
-				sent containing a Progress		
	Indicator #4.	•	•	0 0		
ISUP Parameter values	ANM: Access Transp	ort				
	Progress In	dicator				
	Progres	s Description='	0000100'			
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					
	ProgressOctet <sup>2</sup>					
	ProgressDe	escription>0000	1100<			
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	ACM ← 180 Ringing					
	ANM	<b>←</b>	+	200 OK (INVITE)		
			<b>→</b>	ACK		
		App	oly post test routi	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			estricted digital info with T/A,
		erred, TMR prime = speech	or 3,1 kHz audio
	ANM: Access Transport		
	Progress Indicator		
	·	ription='0000101'	
SIP Parameter values	200 OK:		
	xml version="1.0" encodin</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescripti	on> <b>0000101</b> <	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	ACM ←	<b>←</b>	180 Ringing
	ANM ←	<del>-</del>	200 OK (INVITE)
		→	ACK
		Apply post test routi	ne

TP number	TP 205 010	F	Reference		7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic cal	I/Sending of	ANM/				
Selection criteria	PICS 6.2.1/5	<u> </u>	<del>-</del>				
Test Purpose name		N XML Progr	essIndicator 7 ir	1 200 C	OK into ATP in the ANM		
Test Purpose					or value 7 in a 200 OK INVITE, an		
-					esent containing a Progress		
	Indicator #7. The B	ackward call i	indicator is set to	the fo	ollowing values:		
	ISDN User Part	ISDN User Part indicator					
	ISDN User I	Part used all	the way				
	ISDN access in						
	Terminating	g access ISD	N				
	Interworking indicator						
		king encoun					
ISUP Parameter values	ANM: Access Tran		sent				
	Backward ca						
		er Part indica					
			sed all the way				
		cess indicator					
		ninating acce					
		king indicator					
		terworking e	encountered				
SIP Parameter values	200 OK:		46.000				
	xml version="1.0</th <th>" encoding="i</th> <th>utt-8"?&gt;</th> <th></th> <th></th>	" encoding="i	utt-8"?>				
	PSTN						
	ProgressIndicat						
	ProgressOc		0000444 -				
Comments	Progress	Description>	0000111<				
Message flows	ISUP		MGCF		Ma		
wiessage nows	IAM	<b>→</b>	WIGCE	<b>→</b>	Mg INVITE		
	IAW	7		-	=		
	A C N 4	€ 100 Trying					
	ACM	+		<b>←</b>	180 Ringing		
	ANINA	<b>←</b>		_	200 OK (INI\/ITE)		
	ANM	~		<b>←</b>	200 OK (INVITE)		
	2 //6/1						
l .			Apply post tes	t routi	ine		

TP number	TP_205_011	Re	ference	7.2.3.2.9.2
TSS reference	ISUP-SIP/Basic ca	all/Sending_of_ <i>F</i>	NM/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN	XML HighLayer	Compatibility	in 200 OK into ATP in ANM
Test Purpose				PSTN XML HighLayerCompatibility
				ss Transport Parameter is present
	indicated in table		ity i⊏ and the	value is set to the value HLC_VA as
ISUP Parameter values	ANM: Access Tra			
		yer compatibility		
				ation = HLC_VA
SIP Parameter values	200 OK:	-		
	PSTN XML MIME			
	xml version="1.</th <th>0" encoding="ut</th> <th>f-8"?&gt;</th> <th></th>	0" encoding="ut	f-8"?>	
	PSTN			
	HighLayerCon	npatibility		
	HLOctet3			
		Standard>00<		
		etation>100<		
	HLOctet4	tationMethod>0	I<	
		yerCharacteristi	cc-HIC VA-	
Comments	riigiiLa	yeronaracteristi	33/IILO_VA	
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>		→ INVITE
				← 100 Trying
	ACM	<b>←</b>		← 180 Ringing
	ANM	<b>←</b>		← 200 OK (INVITE)
		_		→ ACK
		,	Apply post te	

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

HLC_VA	XML	DSS1 High layer characteristics identification
	HighLayerCharacteristic	
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	Refere	nce	7.2.3.2.9.2
TSS reference	ISUP-SIP/Basic of	call/Sending_of_ANM/	,	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN	NXML BearerCapabili	ty in 200 OK into	ATP in ANM
Test Purpose	Ensure that on re	ceipt of 200 OK INVIT	E and a PSTN >	KML BearerCapability element is
	present, an ANM	is sent and an Acces	s Transport Para	meter is present containing a
	Bearer Capability	IE and the value is se	et to the value IT	C_value as indicated in
	table 6.1.2.5-1.			
ISUP Parameter values				estricted digital info with T/A,
		kBit/s preferred, TMF	R prime = speech	or 3,1 kHz audio
	ANM: Access Tr			
		r Capability	1.77	
OID Developed		ormation Transfer Cap	pability = IIC_va	lue
SIP Parameter values	200 OK:	011		
		.0" encoding="utf-8"?	>	
	PSTN PagrarCanab	ility		
	BearerCapab BCoctet3	ility		
		gStandard>00<		
		ationTransferCapabili	tv> ITC value <	
	BCoctet4	allori i ranoroi oapaolii	.y> 11 <b>0_</b> valuo <	
		erMode>00<		
		ationTransferRate>10	000<	
Comments				
Message flows	ISUP	М	GCF	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
		Appl	y post test routi	ine

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	Refere	nce	7.2.3.2.9.3	
TSS reference	ISUP-SIP/Basic call	I/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	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 ANM: TMU:				
	TMU_VA	\_TMU			
SIP Parameter values	Information Information Information BearerCapability BCoctet3 CodingSt Information Informa	tandard>00< onTransferCapability tandard>00< onTransferCapabilit	y>mapped from y>mapped from	USI prime<	
Comments	10115				
Message flows	ISUP		GCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>+</b>	100 Trying 180 Ringing	
	, CIVI	•	•	100 Kinging	
	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 absence of a PSTN XML attachment indicates that a non ISDN destination is reached.			

## 6.1.2.6 Sending of the Connect message (CON)

TP number	TP_206_001	Reference		7.2.3.2.11		
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria						
Test Purpose name	Sending of CON message after 200 OK was received					
Test Purpose	Ensure that on recei	Ensure that on receipt of a 200 OK INVITE and no ACM was sent, a CON message is sent.				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF		Mg		
	IAM	<b>→</b>	<b>→</b> II	NVITE		
			<b>←</b> 1	00 Trying		
	CON	<b>←</b>	<b>←</b> 2	00 OK (INVITE)		
	→ ACK					
		Apply post test routine				

TP number	TP_206_002	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 Backward call indicator in CON TMR speech or 3,1 kHz audio				
Test Purpose	IAM with Transmission Medium Requirement indicator = speech or 3,1 kHz received.  Ensure that on receipt of a 200 OK INVITE final response, a CON is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)  Echo control device indicator = Incoming echo control device included (1).				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator = speech or 3,1 kHz				
	CON: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<del>)</del>	INVITE		
	CON	<del>(</del>	100 Trying		
	CON ←	<del>(</del>	200 OK (INVITE)		
		<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_206_003	Reference	7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6.2.1/18				
Test Purpose name	200 OK received, coding of Backward call indicator in CON TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator = 64 kBit/s unrestricted received.  Ensure that on receipt of a 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>	INVITE		
		<b>←</b>	100 Trying		
	CON ←	<b>←</b>	200 OK (INVITE)		
	→ ACK				
	Apply post test routine				

TP number	TP 206 004	Reference	7.2.3.2.11.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/18			
Test Purpose name			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, 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 ←	→ + + →	INVITE 100 Trying 200 OK (INVITE) ACK	
		Apply post test routing	ne	

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 Backward call indicator in CON 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		
	CON ←	<b>←</b> <b>←</b> <b>→</b>	100 Trying 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/				
	0=	0= =			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 1 in 200 OK into	ATP in the CON		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in a 200 OK INVITE, a				
	CON is sent and an Access Transport Parameter is present containing a Progress				
	Indicator #1.				
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descri	otion = '0000001'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments	3				
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	NVITE		
		<b>←</b> 1	00 Trying		
	CON ←		200 OK (INVITE)		
	33.1		ACK		
	Apply post test routine				
		Apply poor tool louting	•		

TP number	TP_206_007	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 2 in 200 OK into A	TP 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 Access Transport Parameter is present containing a Progress				
	Indicator #2.	· · · · · · · · · · · · · · · · · · ·			
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descri	otion = '0000010'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000010<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→ INV	'ITE		
		<b>←</b> 100	Trying		
	CON		OK (INVITE)		
		→ AC			
	Apply post test routine				

TP number	TP_206_008	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	essIndicator 4 in 200 OK into	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 T	ransport Parameter is prese	nt containing a Progress		
	Indicator #4.				
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descr	iption='0000100'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescriptio	n> <b>0000100</b> <			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	NVITE		
		<b>←</b> '	100 Trying		
	CON ←	← 2	200 OK (INVITE)		
		<b>→</b> /	ACK		
		Apply post test routine	•		

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 ProgressIndicator 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 Transport Parameter is present containing a Progress				
	Indicator #5.				
ISUP Parameter values		Iz audio, USI prime = unrestric			
		red, TMR prime = speech or 3	,1 kHz audio		
	CON: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000101'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n>0000101<			
Comments					
Message flows	ISUP	MGCF			
	IAM →		/ITE		
			) Trying		
	CON		O OK (INVITE)		
	→ ACK				
		Apply post test routine			

TP number	TP 206 010	Ref	ference	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		XML Progres	sIndicator 7 in	200 OK into ATP in the CON		
Test Purpose				ndicator value 7 in a 200 OK INVITE, a		
				is present containing a Progress		
	Indicator #7. The Backward call indicator is set to the following values:					
	ISDN User Part ir	ndicator		•		
		art used all th	e way			
	ISDN access indi					
	_	access non-l	SDN			
	Interworking indic					
		ing encounte				
ISUP Parameter values	CON: Access Trans		nt			
	Backward call					
		r Part indicato	=			
		User Part use	a all the way			
		ess indicator	non ISDN			
		Terminating access non-ISDN				
	Interworking indicator no interworking encountered					
SIP Parameter values	200 OK:					
on rarameter values	xml version="1.0"</th <th>encoding="utf</th> <th>-8"?&gt;</th> <th></th>	encoding="utf	-8"?>			
	PSTN	chooding- di	0 :>			
	ProgressIndicator	r				
	ProgressOcte					
		Description>00	00111<			
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>		→ INVITE		
				← 100 Trying		
	CON	<b>←</b>		← 200 OK (INVITE)		
				→ ACK		
		A	pply post test	routine		

TP number	TP_206_011   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 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				
	HighLayerCharacteristics>HLC_VA<				
Comments	1000				
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/Sendin	g_of_CON/			
Selection criteria	PICS 6.2.1/5	-			
Test Purpose name	Mapping of PSTN XML Bea	rerCapability in 200 OK into	ATP in CON		
Test Purpose	Ensure that on receipt of 20	0 OK INVITE and a PSTN X	ML BearerCapability element is		
		present, a CON is sent and an Access Transport Parameter is present containing a Bearer			
	Capability IE and the value	is set to the value ITC_value	e as indicated in table 6.1.2.5-2.		
ISUP Parameter values	CON: Access Transport				
	Bearer Capability	<i>'</i>			
		ransfer Capability = ITC_va	lue		
SIP Parameter values	200 OK:				
	xml version="1.0" encodi</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard				
		ferCapability> ITC_value <			
	BCoctet4				
	TransferMode>00<				
_	InformationTrans	ferRate>10000<			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	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:			
	TMU_VA_TMU			
SIP Parameter values	INVITE:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN Page Carability			
	BearerCapability BCoctet3			
	CodingStandard>00< InformationTransferCapability>mapped from USI<			
	inionnation ransier capability>mapped from corc			
	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	10115			
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	← 100 Trying			
	CON ← 200 OK (INVITE)			
	→ ACK			
	Apply post test routine			

TD	TD 000 014	1	D - f	7.000.444
TP number	TP_206_014		Reference	7.2.3.2.11A
TSS reference	ISUP-SIP/Basic ca	II/Sending_of	CON/	
Selection criteria	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
			<b>→</b>	ACK
			<b>←</b>	INVITE
			<b>→</b>	200 OK INVITE2
			<b>+</b>	ACK
		media		
			Apply post test rout	ine

## 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 i	esponses to ISUP/BICC I	Release messages
Test Purpose	Ensure that on receipt of an un dialogue is established, a Rele		SIP_Response before an early e REL_cause is sent on the
	ISUP/BICC leg of the connection location value in the REL mess	on. The mapping is accord	ding the table 6.1.2.7-1. The
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 ←	<b>←</b>	SIP_Response
	RLC →	→	ACK

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

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

TP number	TP_207_002	Reference	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_c	of_4xx-5xx-6xx/		
Selection criteria				
Test Purpose name	Mapping of unsuccessful final	responses to REL after 1	80 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 180 Ringing, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'.			
ISUP Parameter values	<b>REL:</b> Cause = REL_cause			
SIP Parameter values	SIP_Response			
Comments				
Message flows	ISUP IAM →  REL ← RLC →	MGCF	Mg INVITE 100 Trying 180 Ringing SIP_Response ACK	

TP number	TP_207_003	Reference		7.2.3.2.12
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria				
Test Purpose name	Mapping of unsuccessfu	I final responses to R	EL after 1	81 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_cau	se		
SIP Parameter values	SIP_Response			
Comments				
Message flows	ISUP	MGCF		Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
			<b>←</b>	181 Call is Being Forwarded
	REL	<b>←</b>	<b>←</b>	SIP_Response
	RLC	<b>→</b>	<b>→</b>	ACK

TP number	TP_207_004	Refe	rence	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria					
Test Purpose name	Mapping of unsucces	ssful final respor	ses to REL after 18	83 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_	cause			
SIP Parameter values	SIP_Response				
Comments					
Message flows	ISUP		MGCF	Mg	
	REL RLC	→ ← →	→ + + +	INVITE 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/Receipt_of_4xx-5xx-6xx/				
Selection criteria		•			
Test Purpose name	Mapping of Reason he	ader 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	o cause SIP_cause, this valu	ie is used in the corresponding REL		
	message. The mapping	g is indicated in table 6.1.2.7	-3. The location value in the REL		
		vork beyond interworking poi	nt'.		
ISUP Parameter values	<b>REL:</b> Cause = SIP_ca	ause			
SIP Parameter values	SIP_Response: Reas	SIP_Response: Reason: cause = SIP_cause			
Comments	The use of different cause values in the Reason header is recommended. The cause value				
	should be adequate to the response code.				
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
			← 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_c	of_4xx-5xx-6xx/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Progrethe REL	essIndicator 1 in an unsucces	ssful final response into ATP in
Test Purpose			alue 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 Progre	ss Indicator #1.	
ISUP Parameter values	REL: Access Transport		
	Progress Indicator		
	Progress Descri	ption = '0000001'	
SIP Parameter values	SIP_Response:		
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription	n> <b>0000001</b> <	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b> IN	IVITE
		<b>←</b> 10	00 Trying
	REL ←		IP_Response
	RLC →		CK .

TP number	TP_207_007	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 Prog the REL	gressIndicator 2 in an unsuc	ccessful final response into ATP in
Test Purpose		le 6.1.2.7-4, a REL is sent	or value 2 in an unsuccessful final and an Access Transport Parameter
ISUP Parameter values	REL: Access Transport Progress Indicate Progress Des	or cription = '0000010'	
SIP Parameter values	SIP_Response: xml version="1.0" encodir PSTN ProgressIndicator ProgressOctet4 ProgressDescript</th <th></th> <th></th>		
Comments			
Message flows	ISUP IAM →	MGCF → ←	Mg INVITE 100 Trying
	REL ← RLC →	<b>←</b> →	SIP_Response ACK

TP number	TP_207_008	Reference	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progre the REL	ssIndicator 4 in an unsucce	essful 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			
		otion = '0000100'		
SIP Parameter values	SIP_Response:			
	<pre><?xml version="1.0" encoding=</pre></pre>	xml version="1.0" encoding="utf-8"?		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>0000100<		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	NVITE	
		←	100 Trying	
	REL <b>←</b>	← :	SIP_Response	
	RLC →		ACK	

TP number	TP 207 009	Reference	7.2.3.2.12	
			1.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receipt_c	DT_4XX-5XX-6XX/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name		essIndicator 5 in an unsucce	ssful final response into ATP in	
	the REL			
Test Purpose		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 Progre	ss Indicator #5.		
ISUP Parameter values	IAM: USI = speech or 3,1 kH	Iz audio, USI prime = unrest	ricted digital info with T/A,	
	TMR = 64 kBit/s prefer	red, TMR prime = speech or	3,1 kHz audio	
	REL: Access Transport		•	
	Progress Indicator	•		
	Progress Descr	Progress Description='0000101'		
SIP Parameter values	SIP_Response:			
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescriptio	n> <b>0000101</b> <		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	NVITE	
			00 Trying	
	REL ←		SIP_Response	
	RLC →		icK	
	NLU <b>7</b>	<b>7</b> P	IUN	

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

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

TD	TD 007 040	ln (	7.0.0.0.40
TP number	TP_207_010	Reference	7.2.3.2.12
TSS reference	ISUP-SIP/Basic ca	all/Receipt_of_4xx-5xx-6xx	$\sqrt{}$
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN in REL	XML HighLayerCompatib	ility in an unsuccessful final response into ATP
Test Purpose	a PSTN XML High Transport Parame	LayerCompatibility eleme	nal response as indicated in table 6.1.2.7-4 and nt is present a REL is sent and an Access High layer compatibility IE and the value is set 1.2.5-1.
ISUP Parameter values	REL: Access Tra		
		yer compatibility	
	Higl	h layer characteristics ider	tification = HLC_VA
SIP Parameter values	PSTN HighLayerCom HLOctet3 Coding Interpre Presen HLOctet4	0" encoding="utf-8"?>	/A<
Comments			
Message flows	ISUP IAM REL RLC	MGCF → ← →	Mg → INVITE ← 100 Trying ← SIP_Response → ACK

TP number	TP_207_011	Reference	7.2.3.2.12
TSS reference	ISUP-SIP/Basic call/Receipt_o	f_4xx-5xx-6xx/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Bearer		
Test Purpose	Ensure that on receipt of an un		
	a PSTN XML BearerCapability	•	•
	Parameter is present containing		e value is set to the value
	ITC_value as indicated in table	6.1.2.5-2.	
ISUP Parameter values	REL: Access Transport		
	Bearer Capability		
		sfer Capability = ITC_value	
SIP Parameter values	SIP_Response:		
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>	
	PSTN		
	BearerCapability		
	BCoctet3		
	CodingStandard>00		
	InformationTransferCapability> ITC_value <		
	BCoctet4		
	TransferMode>00<		
	InformationTransfer	Rate>10000<	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ INV	
			Trying
	REL ←		_Response
	RLC →	→ ACH	

TP number	TP_207_012	Reference		7.2.3.2.12
TSS reference	ISUP-SIP/Basic call/F	Receipt of 4xx-5xx-6xx/		•
Selection criteria	PICS 6.2.1/20	<del>-</del>		
Test Purpose name	Play media provided i	n an Error-Info header r	eceived in ar	n unsuccessful final response
Test Purpose	Ensure that the SUT i		ay out media	associated with an URL present
ISUP Parameter values				
SIP Parameter values	SIP_Response: Error	-Info: <media re="" source<="" th=""><th>URL&gt;</th><th></th></media>	URL>	
Comments				
Message flows	ISUP	MGCF		Mg
	REL RLC	→ media ← →	<b>←</b> 1	NVITE 00 Trying SIP_Response ICK
		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_o	f_4xx-5xx-6xx/	
Selection criteria	PICS 6.2.3/2		
Test Purpose name	Handling of 404 and 484 response	nses after sending of INVITE	
Test Purpose	Ensure that on receipt of a 404 Not Found or 484 Address Incomplete responses after sending of INVITE without determining the end of address signalling, timer Ti/w3. After expiry of T i/w3 a REL is sent, the Cause parameter value is set to #28.		
ISUP Parameter values	REL: Cause = 28	·	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	l	Ti/w2 started → INV Ti/w3 started ← 484 → ACI	Address Incomplete
	- · · · · ·	Ti/w2 started → INV Ti/w3 started ← 484 → ACI	Address Incomplete
	REL ← RLC →	Ti/w3 expired	

TP number	TP_207_014	Reference	7.2.3.2.19
TSS reference	ISUP-SIP/Basic call/Receipt_c	of_4xx-5xx-6xx/	
Selection criteria			
Test Purpose name	Handling of 3xx responses after	er sending of INVITE	
Test Purpose	Ensure that on receipt of 3xx f	inal responses as indicated in	table 6.1.2.7-5, an ISUP REL
	is sent. The Cause value in the	e sent REL is set to value 127.	
	OR		
	An new INVITE is sent and the	Request line is derived from	the Contact header received in
	the 3xx final response.		
ISUP Parameter values	REL: Cause = 127		
	Or		
	INVITE: <request derived<="" line="" th=""><th>I from the Contact header in th</th><th>e 3xx_VA</th></request>	I from the Contact header in th	e 3xx_VA
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b> IN\	/ITE
		<b>←</b> 3xx	z_VA
	CASE A	→ AC	K
	REL ←		
	RLC →		
	CASE B		
		<b>→</b> IN\	/ITE

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	F	Reference		7.2.3.2.17.2
TSS reference	ISUP-SIP/Ba	sic call/Receipt_of_	4xx-5xx-6xx/		
Selection criteria	PICS 6.2.1/3				
Test Purpose name		to an UPDATE wi			
Test Purpose	Ensure that on receipt of a 580 Precondition Failure final response after an UPDATE				
	request was s	sent in the early dia	llogue, a REL is s	ent and the	e Cause value is set to 127.
ISUP Parameter values				heck requi	red on this circuit or continuity
		ned on previous cir			
		uity indicator = cont	inuity check succ	essful	
	REL: Cause				
SIP Parameter values		orted: precondition			
	SDP	a=curr:qos local n			
		a=curr:qos remote			
		a=des:qos manda		V	
		a=des:qos none re	emote sendrecv		
	400. Domino	400==1			
	183: Require:		000		
	SDP	a=curr:qos local n			
		a=curr:qos remote a=des:qos manda		N/	
	a=des:qos mandatory remote sendrecv a=conf:gos remote sendrecv				
	a-com.qus remote sentired				
	UPDATE:				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remote none				
	a=des:qos mandatory local sendrecv				
		a=des:gos manda			
Comments		•	-		
Message flows	ISUF	)	MGCF		Mg
	IAM	→		<b>→</b>	INVITE
				<b>←</b>	100 Trying
				<b>←</b>	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/Receipt of BYE/				
Selection criteria	Tool on /Basic sail/1(cost)	_00 1 2,			
Test Purpose name	BYE received, REL is sent				
Test Purpose	,	SYF message and no reaso	n header is present, a REL is sent.		
Test i dipose	The Cause value of the REL				
	interworking point'.				
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 (INIVITE)		
	ANIVI	<b>→</b>	200 OK (INVITE) ACK		
		,	A CIT		
	REL ←	<b>←</b>	BYE		
	RLC →	<b>→</b>	200 OK (BYE)		

TP number	TP 208 002	Reference	7.2.3.2.13
TSS reference			7.2.0.2.10
	ISUP-SIP/Basic call/Receipt	_0 _6   E/	
Selection criteria			
Test Purpose name	BYE received a Reason hea	der is present, REL Cause	derived from the Reason cause
	value	•	
Test Purpose	Ensure that on receipt of a E	BYE request and a Reason	header is present, a REL is sent.
	The Cause parameter is der	ived from cause parameter	in the Reason header.
ISUP Parameter values	REL: Cause = <reason cau<="" th=""><th>ise&gt;</th><th></th></reason>	ise>	
SIP Parameter values	BYE: Reason: cause		
Comments			
Message flows	ISUP	MGCF	Mg
Message flows	ISUP →	MGCF	Mg INVITE
Message flows		<b>→</b>	INVITE
Message flows	IAM →	<b>→</b>	INVITE 100 Trying
Message flows		<b>→</b>	INVITE
Message flows	IAM → ACM ←	<b>→</b> ←	INVITE 100 Trying 180 Ringing
Message flows	IAM →	→ ← ←	INVITE 100 Trying 180 Ringing 200 OK (INVITE)
Message flows	IAM → ACM ←	<b>→</b> ←	INVITE 100 Trying 180 Ringing
Message flows	IAM → ACM ← ANM	→ ← ← →	INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK
Message flows	IAM → ACM ←	→ ← ←	INVITE 100 Trying 180 Ringing 200 OK (INVITE)

TP number	TP_208_003	Reference	7.2.3.2.13
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_BYE/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 1 in a BYE	into ATP in the REL
Test Purpose	Ensure that on receipt of a	PSTN XML ProgressIndic	ator value 1 in a BYE request, a REL
	is sent and an Access Tran	sport Parameter is preser	nt containing a Progress Indicator #1.
ISUP Parameter values	REL: Access Transport		
	Progress Indicat		
		scription = '0000001'	
SIP Parameter values	BYE:		
	xml version="1.0" encod</th <th>ing="utf-8"?&gt;</th> <th></th>	ing="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
_	ProgressDescrip	otion> <b>0000001</b> <	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM ->	· -	INVITE
			100 Trying
	ACM <b>←</b>	•	180 Ringing
	ANM ←	•	200 OK (INVITE)
		-	<b>▶</b> ACK
	REL <b>←</b>	•	BYE
	RLC -	· <del>-</del>	▶ 200 OK (BYE)

TP number	TP_208_004	Reference	7.2.3.2.13
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_BYE/	-
Selection criteria	PICS 6.2.1/5	<del></del>	
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 2 in a BYE	into ATP in the REL
Test Purpose	Ensure that on receipt of a	PSTN XML ProgressIndi	cator value 2 in a BYE request, a REL nt containing a Progress Indicator #2.
ISUP Parameter values	REL: Access Transport		
	Progress Indicat		
		scription = '0000010'	
SIP Parameter values	BYE:		
	<pre><?xml version="1.0" encod</pre></pre>	ing="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescrip	otion> <b>0000010</b> <	
Comments			
Message flows	ISUP	MGCF	Mg
_	IAM -	•	→ INVITE
			← 100 Trying
	ACM <b>←</b>		← 180 Ringing
			3 3
	ANM +		← 200 OK (INVITE)
			→ ACK
			2 7.010
	REL €	•	<b>←</b> BYE
	RLC +	<b>)</b>	→ 200 OK (BYE)

TD	TD 000 005	1,	D-f		7.00040
TP number	TP_208_005		Reference		7.2.3.2.13
TSS reference	ISUP-SIP/Basic cal	I/Receipt_of_	_BYE/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN >	(ML Progress	sIndicator 4 in a	BYE into	ATP in the REL
Test Purpose	Ensure that on rece	ipt of a PSTI	N XML Progress	Indicator	r value 4 in a BYE request, a REL
	is sent and an Acce	ss Transpor	t Parameter is p	resent co	ontaining a Progress Indicator #4.
ISUP Parameter values	REL: Access Tran		•		
	Progress	Indicator			
			tion = '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	3				
Message flows	ISUP		MGCF		Mg
	IAM	→		<b>→</b>	INVITE
				+	100 Trying
	ACM	<b>←</b>		<del>-</del>	180 Ringing
	700 Kinging				
	ANM ← 200 OK (INVITE)				
	→ ACK				
				7	ACK
	חבו	_		_	DVE
	REL	<del>(</del>			BYE
	RLC	<b>→</b>		<b>→</b>	200 OK (BYE)

TP number	TP_208_006	Reference	7.2.3.2.13			
TSS reference	ISUP-SIP/Basic call/Receipt_of_BYE/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 5 in a BYE int	o ATP in the REL			
Test Purpose			or value 5 in a BYE request, a REL			
	is sent and an Access Transpo	ort Parameter is present c	ontaining a Progress Indicator #5.			
ISUP Parameter values	IAM: USI = speech or 3,1 kH					
		red, TMR prime = speech	or 3,1 kHz audio			
	REL: Access Transport					
	Progress Indicator					
		ption='0000101'				
SIP Parameter values	BYE:					
	<pre><?xml version="1.0" encoding:</pre></pre>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n>0000101<				
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			
	REL ←	<b>←</b>	BYE			
	RLC →	<b>→</b>	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	Mapping of PSTN XML H	lighLaverCompatibility in	a BYE i	nto ATP in REL		
Test Purpose				HighLayerCompatibility element is		
				er is present containing a High		
	layer compatibility IE and	the value is set to the va	lue HLC	C_VA as indicated in		
	table 6.1.2.5-1.					
ISUP Parameter values	<b>REL:</b> Access Transport					
	High layer com					
		characteristics identificat	ion = <b>HL</b>	LC_VA		
SIP Parameter values	BYE:					
	PSTN XML MIME body					
	xml version="1.0" enco</th <th>oding="utf-8"?&gt;</th> <th></th> <th></th>	oding="utf-8"?>				
	PSTN					
	HighLayerCompatibili	ty				
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100< PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_VA</b> <					
Comments	Tilgitzayerena	TACIONSTICOZITEO_VA				
Message flows	ISUP	MGCF		Mg		
Incoougo none		→oc.	<b>→</b>	NVITE		
		-		100 Trying		
	ACM	<b>←</b>		180 Ringing		
	7.0	-		100 1 111191119		
	ANM	<b>←</b>	<b>←</b> 2	200 OK (INVITE)		
	,	-		ACK		
			- ,			
	REL	<b>←</b>	<b>←</b> E	BYE		
		<b>→</b>	_	200 OK (BYE)		
		=				

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				
	CodingStandard>00	1-			
	5	Capability> ITC_value <			
	BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	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 call/Receipt_o	f_REL/			
Selection criteria					
Test Purpose name	REL received before an early of	lialogue was established,	a CANCEL is sent		
Test Purpose	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= <ca< th=""><th>use value&gt;</th><th></th></ca<>	use value>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	REL →	<b>←</b> <b>→</b>	100 Trying CANCEL 200 OK (CANCEL)		
	The Control of the Co	<b>←</b>	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>	NVITE		
		<b>←</b> 1	00 Trying		
	ACM ←	← 1	80 Ringing		
	REL →		CANCEL		
	RLC ←		200 OK (CANCEL)		
			87 Request Terminated ACK		

TP number	TP_209_003	Reference	7.2.3.2.14			
TSS reference	ISUP-SIP/Basic call/Receipt_c	of_REL/				
Selection criteria						
Test Purpose name	REL received after an early dia	alogue with 181 was esta	blished, a CANCEL is sent			
Test Purpose	Forwarded response was esta	Ensure that on receipt of a REL message after an early dialogue due to a 181 Call is Being Forwarded response was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL.				
ISUP Parameter values	REL: Cause value					
SIP Parameter values	CANCEL: Reason: cause= <c< th=""><th>ause value&gt;</th><th></th></c<>	ause value>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	+	181 Being forwarded			
	REL →	<b>→</b>	CANCEL			
	RLC ←	<b>←</b>	200 OK (CANCEL)			
		<b>←</b>	487 Request Terminated			
		<b>→</b>	ACK			

TP number	TP 209 004	Reference	e	7.2.3.2.14	
TSS reference	ISUP-SIP/Basic call	Receipt_of_REL/		-	
Selection criteria					
Test Purpose name					
Test Purpose	REL received after a	an early dialogue with	182 was esta	blished, a CANCEL is sent	
ISUP Parameter values	response was estab	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: 0	cause= <cause th="" value<=""><th>&gt;</th><th></th></cause>	>		
Message flows	ISUP	MG	CF	Mg	
	IAM ACM	<b>→</b> ←	→ ← ←	INVITE 100 Trying 182 Queued	
	REL RLC	<b>→</b>	→ ← ← →	CANCEL 200 OK (CANCEL) 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 establis	hed, a CANCEL is sent		
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to a 183 Session Progress response was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL.				
ISUP Parameter values	REL: Cause value				
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value&gt;</th><th></th></ca<>	use value>			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> IN	IVITE		
		<b>←</b> 10	00 Trying		
	ACM ←	← 18	33 Session Progress		
	REL →	<b>→</b> C.	ANCEL		
	RLC ←		00 OK (CANCEL)		
			37 Request Terminated CK		

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	l dialogue a BYE is sent	
Test Purpose			d 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
			0 0
	ANM <b>←</b>	<b>←</b>	200 OK (INVITE)
			ACK
			-
	REL →	<b>→</b>	BYE
	RLC ←	+	200 OK (BYE)

TP number	TP_209_007	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	BYE		(ML ProgressIndicator #1 in the		
Test Purpose			ontaining a Progress Indicator #1 in		
			TN XML ProgressIndicator is		
	present, the ProgressDescrip	otion is set to #1.			
ISUP Parameter values	REL: Access Transport				
	Progress Indicator				
OID D		cription='0000001'			
SIP Parameter values	BYE:	II. uf 0II0			
	<pre><?xml version="1.0" encodin PSTN</pre></pre>	g="utt-8"?>			
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<del>-</del>	100 Trying		
	ACM ←	<del>-</del>	180 Ringing		
	ANM ←	<del>-</del>	200 OK (INVITE)		
		<b>→</b>	ACK		
	REL →	<b>→</b>	BYE		
	RLC <b>←</b>	+	200 OK (BYE)		

TP number	TP 209 008	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Rece	eipt of REL/	<u> </u>		
Selection criteria	PICS 6.2.1/5	-1			
Test Purpose name	Mapping of REL ATP Pro BYE	gress Indicator #2 into PS	TN XML ProgressIndicator #2 in the		
Test Purpose		BYE request is sent and	TP containing a Progress Indicator #2 in a PSTN XML ProgressIndicator is		
ISUP Parameter values	REL: Access Transport Progress Indic Progress D				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<				
Comments	<u> </u>	•			
Message flows	,	MGCF → ←	Mg → INVITE ← 100 Trying ← 180 Ringing		
	ANM	<b>←</b>	<ul><li>← 200 OK (INVITE)</li><li>→ ACK</li></ul>		
	· ·	<b>→</b> ←	<ul><li>→ BYE</li><li>← 200 OK (BYE)</li></ul>		

TP number	TP_209_009	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 Pro BYE	gress Indicator #4 into PS	TN XML ProgressIndicator #4 in the			
Test Purpose	the confirmed dialogue, a	Ensure that on receipt of a REL message and an ATP containing a Progress Indicator #4 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #4.				
ISUP Parameter values	REL: Access Transport Progress Indica Progress D	ator escription='0000100'				
SIP Parameter values	BYE:  PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<					
Comments		•				
Message flows	ACM	MGCF →	Mg → INVITE ← 100 Trying ← 180 Ringing			
		<del>(</del>	← 200 OK (INVITE) → ACK			
	' '	<b>→</b> <del>←</del>	<ul><li>→ BYE</li><li>← 200 OK (BYE)</li></ul>			

TP number	TP 209 010	Refer	nco	7.2.3.2.14	
			FIICE	1.2.3.2.14	
TSS reference	ISUP-SIP/Basic call/Re	eceipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP F BYE	Progress Indica	tor #5 into PSTN X	ML ProgressIndicator #5 in the	
Test Purpose		, a BYE reques	t is sent and a PS	ontaining a Progress Indicator #5 in TN XML ProgressIndicator is	
ISUP Parameter values	REL: Access Transpo				
		s Description='(	000101'		
SIP Parameter values	BYE:	bescription - t	000101		
on Farameter values	<pre><?xml version="1.0" encoding="utf-8"?> PSTN     ProgressIndicator     ProgressOctet4           ProgressDescription&gt;0000101</pre>				
Comments		•			
Message flows	ISUP IAM ACM	→ ←	IGCF → ← ←	Mg INVITE 100 Trying 180 Ringing	
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK	
	REL RLC	<b>→</b> ←	<b>→</b>	BYE 200 OK (BYE)	

TP number	TP_209_011	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	bility acteristics identification =	HLC_VA		
SIP Parameter values	BYE: PSTN XML MIME body <pre> </pre> <pre> <pre> PSTN HighLayerCompatibility     HLOctet3     CodingStandard&gt;00</pre>     Interpretation&gt;100</pre> PresentationMethod>01 HLOctet4 HighLayerCharacteristics>HLC_VA<				
Comments	ICUID	МООБ	8.6		
Message flows	ISUP IAM → ACM ←	MGCF → ←	Mg INVITE 100 Trying 180 Ringing		
	ANM <b>←</b>	<b>←</b> →	200 OK (INVITE) ACK		
	REL → RLC ←	<b>→</b>	BYE 200 OK (BYE)		

TP number	TP_209_012	Refer	ence	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 the BYE	Low Layer Com	patibility into PST	N XML LowLayerCompatibility in	
Test Purpose	Compatibility IE in the	e confirmed dialo ty is present, the	gue, a BYE reque	containing a Low Layer est is sent and a PSTN XML ferCapability is set to ITC_value as	
ISUP Parameter values		Compatibility	pability = ITC_val	lue	
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	→ ←	AGCF → ←	Mg INVITE 100 Trying	
	ACM	<del>-</del>	<b>←</b>	180 Ringing 200 OK (INVITE) ACK	
	REL RLC	<b>→</b> ←	<b>→</b>	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 early	dialogue was established			
Test Purpose	Ensure that on receipt of a RSC before an early dialogue is established, a CANCEL request is sent containing a Reason header. The SUT received a 487 Request Terminated and sends an ACK request.				
ISUP Parameter values					
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	ISUP	MGCF	Mg		
	RSC → RLC	← 10 → C/ ← 20	VITE 00 Trying ANCEL 00 OK (CANCEL)		
			37 Request Terminated CK		

TP number	TP_210_002	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receip	t_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of RSC after an ear	ly dialogue with 180 was es	tablished		
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 ←	<b>←</b>	180 Ringing		
	RSC →	<b>→</b>	CANCEL		
	RLC ←	<b>←</b>	200 OK (CANCEL)		
		<b>←</b> →	487 Request Terminated ACK		

TP number	TP_210_003	Reference	7.2.3.2.15	
TSS reference	ISUP-SIP/Basic call/Receipt_c	of_RSC-GRS-CGB/		
Selection criteria				
Test Purpose name	Receipt of RSC after an early	dialogue with 181 was esta	blished	
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	
		+	181 Being forwarded	
	RSC →	<b>→</b>	CANCEL	
	RLC ←	<b>←</b>	200 OK (CANCEL)	
			487 Request Terminated ACK	

TP number	TP_210_004	Referei	nce	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria		•				
Test Purpose name	Receipt of RSC after	er an early dialogue	with 183 was es	stablished		
Test Purpose	Progress provisiona	Ensure that on receipt of a RSC after an early dialogue with receipt of a 183 Session Progress provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request.				
ISUP Parameter values						
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	ISUP	M	GCF	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 RS response was established, a		e with a 200 OK (INVITE) final
ISUP Parameter values			
SIP Parameter values	BYE: Reason:		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	180 Ringing
	ANM ←	<b>←</b>	200 OK (INVITE)
		<b>→</b>	ACK
	RSC →	<b>→</b>	BYE
	RLC ←	+	200 OK (BYE)

TP number	TP_210_006	Re	eference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Re	eceipt_of_R	SC-GRS-CGB/			
Selection criteria						
Test Purpose name	Receipt of GRS before	an early di	alogue 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>	<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 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 180 was e	established			
Test Purpose	provisional respons	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>	NVITE			
	ACM	<b>←</b>	+	180 Ringing			
	GRS	<b>→</b>	<b>→</b>	CANCEL			
	GRA ← 200 OK (CANCEL)						
			+	487 Request Terminated			
			<b>→</b>	ACK			

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

TP number	TP_210_009	Refer	ence	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/					
Selection criteria							
Test Purpose name	Receipt of GRS after	r an early dialogu	e with 183 was es	stablished			
Test Purpose	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		<b>IGCF</b>	Mg			
	IAM	<b>→</b>	<b>→</b>	INVITE			
			<b>←</b>	183 Session Progress			
	GRS	<b>→</b>	<b>→</b>	CANCEL			
	GRA	<b>←</b>	+	200 OK (CANCEL)			
			<b>←</b> →	487 Request Terminated ACK			

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

TP number	TP_210_011	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Rece	eipt_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of GRS after a coare terminated	onfirmed dialogue was estal	blished, 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		
		Two connection are es	stablished		
	GRS	<b>→</b>			
	GRA	← -	→ BYE (1)		
		•	€ 200 OK (BYE)		
			<ul><li>BYE (2)</li><li>€ 200 OK (BYE)</li></ul>		

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

TP number	TP_210_013	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_	of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of CGB 'hardware ori	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 supervision	n message type = hardwa	re 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>	<b>←</b>	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/Receip	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/					
Selection criteria							
Test Purpose name	Receipt of CGB 'hardware	oriented' after an early dia	alogue with 181 was established				
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' after an early dialogue with receipt of a 181 Being forwarded provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request.						
ISUP Parameter values	CGB: Circuit group superv	ision message type = hard	dware failure oriented				
SIP Parameter values	CANCEL: Reason:						
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM -	·	→ INVITE				
		•	← 181 Being forwarded				
	CGB ÷		→ CANCEL				
	CGBA <b>←</b>	•	€ 200 OK (CANCEL)				
		•	<ul> <li>487 Request Terminated</li> </ul>				
		•	→ ACK				

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

TP number	TP_210_016	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Recei	pt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of CGB 'hardware	oriented' after a confirmed dia	logue 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 superv	rision message type = hardwar	e failure oriented			
SIP Parameter values	BYE: Reason:					
Comments						
Message flows	ISUP	MGCF	Mg			
_	IAM -	<b>→</b>	INVITE			
	ACM <b>€</b>	- ←	180 Ringing			
	ANM €	- <del>(</del>	200 OK (INVITE)			
		<b>→</b>	ACK			
	CGB ÷	<del>-</del>	BYE 200 OK (BYE)			

TP number	TP_210_017	Reference	7.2.3.2.15
TSS reference	ISUP-SIP/Basic call/Receipt_c	f_RSC-GRS-CGB/	·
Selection criteria			
Test Purpose name	Receipt of CGB 'hardware orie communications are terminate		alogue was established, all affected
Test Purpose		OK (INVITE) final respons	t of CGB 'hardware oriented' after a se was established, a BYE request
ISUP Parameter values	CGB: Circuit group supervision	n message type = hardwa	re failure oriented
SIP Parameter values	BYE: Reason:		
Comments			
Message flows	ISUP	MGCF	Mg
	T\	wo connection are estab	lished
	CGB →		
	CGBA ←	<b>→</b>	BYE (1)
		+	200 OK (BYE)
		<b>→</b>	BYE (2) 200 OK (BYE)

### 6.1.2.11 Autonomous Release at O-MGCF

TP number	TP_211_001	Reference	7.2.3.2.16		
TSS reference	ISUP-SIP/Basic call/Autonomo	us_Release/	·		
Selection criteria	PICS 6.2.1/3				
Test Purpose name	COT procedure fails				
Test Purpose	IAM received and the continuity check indicator is set to 'continuitycheck required' or 'performed on a previous circuit'. Ensure that on receipt of a COT message and the continuity indicator is set to 'continuity check failed the already established early dialogue is terminated. A CANCEL request is sent. A Reason header is present containing the cause value '41'.				
ISUP Parameter values	COT: 'continuity check failed'				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→ ← → ←	INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK)		
	COT →	→ ← ←	CANCEL 200 OK (CANCEL) 487 Request Terminated ACK		

TP number	TP_211_002	Reference	7.2.3.2.16		
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/			
Selection criteria	PICS 6.2.1/3				
Test Purpose name	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 message compatibility instruction 'Release call' received in the early dialogue					
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 i REL: Cause = 97	nformation: Release call i	ndicator = release call			
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>	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/Autonom	ous_Release/	·		
Selection criteria					
Test Purpose name	Call is released to due messa confirmed dialogue	age compatibility instruction	n 'Release call' received in the		
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 REL: Cause = 97	information: Release call	indicator = release call		
SIP Parameter values	BYE: Reason:				
Comments	For an unknown message us	e a message type unknow	n in the SUT.		
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<del>-</del>	180 Ringing		
	<b>←</b>	<del>-</del>	200 OK (INVITE)		
		<b>→</b>	ACK		
	??? →				
	REL ←	<b>→</b>	BYE		
	RLC →	+	200 OK (BYE)		

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 parame confirmed dialogue	eter compatibility instruction	on 'Release call' received in the			
Test Purpose	Ensure that on receipt of a CPG in the confirmed dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP BYE request is sent and a Reason header field is present.					
ISUP Parameter values	CPG: Parameter compatibility REL: Cause = 99 or 110	information: Release call	indicator = release call			
SIP Parameter values	BYE: Reason:					
Comments	For an unknown parameter us	e a parameter type unkno	own in the SUT.			
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>←</b>	200 OK (INVITE)			
		<b>→</b>	ACK			
	CPG →					
	REL ←	<b>→</b>	BYE			
	RLC →	+	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		e into SIP Content-Type an	nd Content-Disposition header
Test Purpose	Ensure that on receipt of an IS		
l cost i an pooc			ession Progress or 180 Ringing
	or an INFO request is sent. A	XMI 'SCI' element is prese	nt
	The:	XIVIE GOT CICITICITE IS PIESE	111.
		set to 'application/vnd.etsi.so	si±vml'
		ier is set to render and the	handling parameter is set to
ICUD Devementar values	'optional'.		
ISUP Parameter values	APM/ACM		
	APP		
	Application Context Ide		
	'0000011' (Chargin	g ASE)	
	Encapsulated Applicat		
	Charging related In	nformation	
SIP Parameter values	I18x/200/NFO:		
	Content-Type: application/vnc		
	Content-Disposition: render; h	nandling = optional	
Comments			
<b>→</b>	Mg	MGCF	ISUP
	INVITE	<b>→</b>	<b>→</b> IAM
	CASE A		
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)
	163 Session Progress(crgt)		
		-	➤ APM(crga)
	CASE B		
	180 / 183 (crgt)	<del>(</del>	ACM(crgt)
		-	→ APM(crga)
	CASE C		
	180 Ringing	<b>←</b>	E ACM
	183 Session Progress(crgt)	<b>←</b>	APM(crgt)
	100 00000111 1091000(0191)	=	→ APM(crga)
			A W(ciga)
	CASE D		
		_	F ACM
	180 Ringing	_	- ACM
	200 OK INVITE		ANM(crgt)
	ACK	<b>→</b>	→ APM(crga)
	CASE E		
	180 Ringing	<b>←</b>	E ACM
	183 Session Progress(crgt)	<del>(</del>	APM(crgt)
		-	→ APM(crga)
	200 OK INVITE		E ANM
	ACK	<b>→</b>	
	1010	~	
	INEO(crat)	_	► ADM(crat)
	INFO(crgt)		APM(crgt)
	200 OK INFO	<del>-</del>	→ APM(crga)
		Apply post test routine	,

TP number	TP_121_002	Reference	4.6.1/ [6]
TSS reference	SIP-ISUP/Basic call/Charging	l	
Selection criteria	PICS 6.2.1/13		
Test Purpose name			AppliedTariff' into SIP SCI XML
_	'crgt/immediateChangeOfActu		
Test Purpose	Ensure that on receipt of an IS	SUP Application transpor	t parameter in an ACM or APM
	containing an APP coded as '	Charging ASE' a SIP 183	3 Session Progress or 180 Ringing
	or an INFO request is sent. A		
			eter in the encapsulated charging
ICUD Deservator and a		MIL immediateChangeC	ofActuallyAppliedTariff' element.
ISUP Parameter values	APP		
	crgt		
	chargingControlIndicat		
OID Developed		OfActuallyAppliedTariff =	1
SIP Parameter values	18x/200/INFO:		
	< messageType >		
	< crgt>		
	< chargingControlInd	icators>	
		geOfActuallyAppliedTari	ff>1 </th
Comments		<u> </u>	
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)	<del>(</del>	← 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	<del>(</del>	← ANM
	ACK	<b>→</b>	
1			
	INFO(crgt)	<b>←</b>	← APM(crgt)
	INFO(crgt) 200 OK INFO	<b>←</b> →	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>

SIP-ISUP/Basic call/Charging/   Selection criteria   PICS 6.2.1/13	TP number	TP_121_003	Reference		4.6.1/ [6]	
PICS 6.2.1/13					[4.0.17 [0]	
Mapping of ISUP currentTariffCurrency CommunicationChargeCurrency CurrencyFactorScale into SIP SCI XML currentTariffCurrency /currencyFactorScale into SIP SCI XML currentTariffCurrency /currencyFactorScale into SIP SCI XML currentTariffCurrency /currencyFactorScale into SIP SCI XML currentTariffCurrency /communicationChargeCurrency -currencyFactorScale or an INFO request is sent. A XML 'SCI element is present. The currentTariffCurrency -communicationChargeCurrency -currencyFactorScale parameter in the encapsulated charging ASE is mapped into the SCI XML currentTariffCurrency -communicationChargeSequenceCurrency -currentTariffCurrency -currencyFactorScale element.    APP			I			
			fCurrency/ Communication	onCha	erge Currency	
element	rest Purpose name					,
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 Ringling or an INFO request is sent. A XML 'SCI' element is present.  The currentTariffCurrency - CommunicationChargeCurrency - 'currencyFactorScale' parameter in the encapsulated charging ASE is mapped into the SCI XML currentTariffCurrency - 'communicationChargeSequenceCurrency' - currencyFactorScale' element.  APP crgt tariffCurrency			or SCI AIVIL CUITEITTAIT	Curre	ency/currencyracionscale	
containing an APP coded as 'Charging ASE' a SIP 183 Session Progress or 180 Ringing or an INFO request is sent. A MML 'SCI' element is present.   The 'currentTariffCurrency' - 'CommunicationChargeCurrency' - 'currencyFactorScale' parameter in the encapsulated charging ASE is mapped into the SCI XML currentTariffCurrency' - communicationChargeSequenceCurrency' - currencyFactorScale' element.   APP	Toot Burnoso		CLID Application transpor	t noro	motor in an ACM or ADM	
or an INFO request is sent. A XML 'SCI' element is present.	rest Fulpose					na
The currentTariffCurrency - 'CommunicationChargeCurrency' - 'currencyFactorScale' parameter in the encapsulated charging ASE is mapped into the SCI MML 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'currencyFactorScale' element.    APP					sion Flogress or 160 Kingi	iig
parameter in the encapsulated charging ASE is mapped into the SCI XML					v. lourropouFootorCoolel	
CourrentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'courrencyFactorScale' element.   APP						
SUP Parameter values   APP   Crgt						
APP   crgt   tariffCurrency   currentTariffCurrency   CommunicationChargeCurrency   currencyFactorScale   currentTariffCurrency   communicationChargeSequenceCurrency   currencyFactorScale   curren				ncecu	irrency -	
tariffCurrency   CommunicationChargeCurrency   CommunicationChargeCurrency   CommunicationChargeCurrency   CurrencyFactorScale   currencyFactorScale   currencyFactorScale    CurrencyScale=[any value]   CurrencyScale=[any val	ICUD Devementes values		ι.			
tariffCurrency   currentTariffCurrency   CommunicationChargeCurrency   currencyFactorScale   currencyFactorScale   currencyFactorScale   currencyFactorScale   currencyFactorScale   currencyFactorScale   currencyScale=[any value]   currencyScale=[any va	150P Parameter values					
CurrentTariffCurrency						
CommunicationChargeCurrency   currencyFactorScale   currencyFactor=[any value]   currencyFactor=[any value]   currencyFactor=[any value]		tariffCurrency				
CurrencyFactorScale   CurrencyFactorScale   CurrencyFactor=[any value]						
CurrencyFactor=[any value]						
SIP Parameter values						
18x/200/INFO:						
< messageType > crgt>       < crgt>         < chargingTariff>       < tariffCurrency>         < communicationChargeSequenceCurrency>       < communicationChargeSequenceCurrency>         < currencyFactorScale>       < currencyFactors[any value]          < currencyScales[any value]           Comments       Mg       MGCF       ISUP         Message flows       INVITE       → IAM         CASE A       + APM(crgt)       → APM(crgt)         CASE B       + APM(crga)       + APM(crga)         CASE B       + ACM(crgt)       + APM(crga)         CASE C       + APM(crga)       + APM(crga)         CASE D       + APM(crga)       + APM(crga)         LASE D       + APM(crga)       + APM(crga)         CASE D       + ACM       + ANM         LACK       + ANM       + ACM         LACK       + ANM       + APM(crga)			encyScale=[ <i>any value</i> ]			
< crgts	SIP Parameter values	18x/200/INFO:				
< crgts		_				
< chargingTariff>       < tariffCurrency>         < currentTariffCurrency>       < currentTariffCurrency>         < currencyFactorScale>       < currencyFactorScale>         < currencyEcators[any value]           < currencyScale>[any value]           < currencyScale>[any value]           Comments       Mg MGCF ISUP         INVITE       → IAM         CASE A       183 Session Progress(crgt)       ← APM(crgt)         + APM(crga)       + APM(crga)         CASE B       + APM(crga)         180 Ringing       ← ACM         200 OK INVITE       ← ACM         ACK       →         INFO(crgt)       ← APM(crga)         APM(crga)       APM(crga)						
cariffCurrency>						
currentTariffCurrency>          communicationChargeSequenceCurrency>          currencyFactorScale>          currencyFactorScale> [any value]           currencyScale> [any value]          INVITE       → IAM         CASE A       H83 Session Progress(crgt)         CASE B       ← APM(crgt)         180 / 183 (crgt)       ← ACM(crgt)         CASE C       H80 Ringing         183 Session Progress(crgt)       ← ACM         CASE D       ← APM(crga)         CASE D       + APM(crga)         L80 Ringing       ← ACM         ACK       →         INFO(crgt)       ← ANM         ACK       →         INFO(crgt)       ← APM(crgt)         APM(crga)       APM(crga)						
CommunicationChargeSequenceCurrency>       < currencyFactorScale>         < currencyFactorSale>       < currencyFactorSale> any value          < currencyScale> any value        <         Comments       Mg       MGCF       ISUP         INVITE       → IAM         CASE A       183 Session Progress(crgt)       ← APM(crgt)         CASE B       + APM(crga)         CASE B       + APM(crga)         CASE C       + APM(crga)         CASE C       + APM(crga)         183 Session Progress(crgt)       ← APM(crga)         CASE D       + APM(crga)         180 Ringing       ← APM(crga)         200 OK INVITE       ← APM(crga)         APM(crga)       + APM(crga)			_			
Comments         Message flows         Mg       MGCF       ISUP         INVITE       →       IAM         CASE A       +       APM(crgt)         183 Session Progress(crgt)       ←       APM(crgt)         CASE B       +       APM(crga)         CASE C       +       APM(crga)         CASE C       180 Ringing       ←       APM(crgt)         183 Session Progress(crgt)       ←       APM(crgt)         APM(crga)       +       APM(crga)         CASE D       +       APM(crga)         180 Ringing       ←       ACM         200 OK INVITE       ←       ANM         ACK       →       APM(crgt)         1NFO(crgt)       ←       APM(crgt)         200 OK INFO       →       APM(crgt)				_		
Comments         Message flows         Mg       MGCF       ISUP         INVITE       →       →       IAM         CASE A       183 Session Progress(crgt)       ←       ←       APM(crgt)         CASE B       180 / 183 (crgt)       ←       ←       ACM(crgt)         B0 Ringing       ←       ←       APM(crga)         CASE C       180 Ringing       ←       ←       APM(crgt)         183 Session Progress(crgt)       ←       ←       APM(crgt)         →       APM(crga)       ←       APM(crga)         CASE D       180 Ringing       ←       ←       ACM         200 OK INVITE       ←       ANM         ACK       →       INFO(crgt)       ←       ←       APM(crgt)         200 OK INFO       →       APM(crga)       →       APM(crga)				Currer	ncy>	
Comments           Message flows         Mg         MGCF         ISUP           INVITE         →         →         IAM           CASE A         183 Session Progress(crgt)         ←         APM(crgt)           CASE B         +         ACM(crgt)           180 / 183 (crgt)         ←         +         ACM(crgt)           APM(crga)         +         APM(crga)           CASE C         +         APM(crgt)         +         APM(crgt)           183 Session Progress(crgt)         ←         APM(crga)         +         APM(crga)           CASE D         180 Ringing         ←         ←         ACM         ANM           200 OK INVITE         ←         ←         ANM           ACK         →         +         APM(crgt)         +           200 OK INFO         +         APM(crga)         +         APM(crga)		< curre				
Comments         Mg         MGCF         ISUP           INVITE         →         IAM           CASE A         183 Session Progress(crgt)         ←         APM(crgt)           Lagrange B         +         APM(crga)           CASE B         +         APM(crga)           180 / 183 (crgt)         ←         ACM           180 Ringing         ←         APM(crgt)           183 Session Progress(crgt)         ←         APM(crgt)           APM(crga)         ←         APM(crga)           CASE D         +         ACM           180 Ringing         ←         ←         ACM           200 OK INVITE         ←         ANM           ACK         →         APM(crgt)            1NFO(crgt)         ←         ←         APM(crgt)           200 OK INFO         →         APM(crga)						
Mg		< C	urrencyFactor>[any value			
INVITE	Comments	< C	urrencyFactor>[any value			
CASE A  183 Session Progress(crgt) ← ← APM(crgt)	Comments Macagas flows	< C	urrencyFactor>[ <i>any value</i> urrencyScale>[ <i>any value</i> ]			
183 Session Progress(crgt)	Comments Message flows	< c < c	urrencyFactor>[any value] urrencyScale>[any value] MGCF	] </th <th>ISUP</th> <th></th>	ISUP	
183 Session Progress(crgt)		< c < c	urrencyFactor>[any value] urrencyScale>[any value] MGCF	] </th <th>ISUP</th> <th></th>	ISUP	
CASE B  180 / 183 (crgt) ← ← ACM(crgt) → APM(crga)  CASE C  180 Ringing ← ACM 183 Session Progress(crgt) ← APM(crgt) → APM(crga)  CASE D  180 Ringing ← ACM 200 OK INVITE ← ACM 200 OK INVITE ← ANM  INFO(crgt) ← APM(crgt) → APM(crgt) → APM(crga)		< c < c Mg	urrencyFactor>[any value] urrencyScale>[any value] MGCF	] </th <th>ISUP</th> <th></th>	ISUP	
CASE B  180 / 183 (crgt)		Mg INVITE  CASE A	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	→	ISUP IAM	
Table 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  CONTROL ACM  CONTROL ACM  CONTROL ACM  CASE D  APM(crgt)  APM(crgt)  APM(crgt)  APM(crga)		Mg INVITE  CASE A	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	• <del>•</del>	ISUP IAM APM(crgt)	
Table 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  CONTROL ACM  CONTROL ACM  CONTROL ACM  CASE D  APM(crgt)  APM(crgt)  APM(crgt)  APM(crga)		Mg INVITE  CASE A	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	• <del>•</del>	ISUP IAM APM(crgt)	
CASE C         180 Ringing       ←       ←       APM(crgt)         183 Session Progress(crgt)       ←       APM(crgt)         →       APM(crga)         CASE D       ←       ACM         180 Ringing       ←       ACM         200 OK INVITE       ←       ANM         ACK       →       APM(crgt)         INFO(crgt)       ←       APM(crgt)         200 OK INFO       →       APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	• <del>•</del>	ISUP IAM APM(crgt)	
CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing  ←  APM(crgt)  APM(crga)  CASE D  180 Ringing  ←  ACM  APM(crga)  CASE D  180 Ringing  ←  APM(crga)  CASE D  180 Ringing  ←  APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	• <del>•</del>	ISUP IAM  APM(crgt) APM(crga)	
180 Ringing 183 Session Progress(crgt)  CASE D  180 Ringing ← APM(crgt) → APM(crga)  CASE D  180 Ringing ← ACM 200 OK INVITE ← ACM ANM  INFO(crgt) → APM(crgt) → APM(crgt) → APM(crgt) → APM(crgt) → APM(crgt) → APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	• <del>•</del>	ISUP IAM  APM(crgt) APM(crga)	
180 Ringing 183 Session Progress(crgt)  CASE D  180 Ringing ← APM(crgt) → APM(crga)  CASE D  180 Ringing ← ACM 200 OK INVITE ← ACM ANM  INFO(crgt) → APM(crgt) → APM(crgt) → APM(crgt) → APM(crgt) → APM(crgt) → APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	→ + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt)	
183 Session Progress(crgt)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	→ + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt)	
183 Session Progress(crgt)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)	urrencyFactor>[any value] urrencyScale>[any value] MGCF →	→ + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt)	
CASE D  180 Ringing ← ACM 200 OK INVITE ← ANM ACK  INFO(crgt) ← APM(crgt) 200 OK INFO  APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C	urrencyFactor>[any value] urrencyScale>[any value]  MGCF →  ←	→ ← →	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)	
CASE D  180 Ringing		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	urrencyFactor>[any value] urrencyScale>[any value]  MGCF  →  ←	→ ← → ←	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)	
180 Ringing 200 OK INVITE ← ANM  ACK  INFO(crgt) 200 OK INFO  ← APM(crgt) → APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	urrencyFactor>[any value] urrencyScale>[any value]  MGCF  →  ←	→ ← → ← →	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)	
180 Ringing 200 OK INVITE ← ANM  ACK  INFO(crgt) 200 OK INFO  ← APM(crgt) → APM(crga)		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	urrencyFactor>[any value] urrencyScale>[any value]  MGCF  →  ←	→ ← → ← →	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)	
200 OK ÎNVÎTE		Mg INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	urrencyFactor>[any value] urrencyScale>[any value]  MGCF  →  ←	→ ← → ← →	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)	
ACK →  INFO(crgt) ← APM(crgt) 200 OK INFO → 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  ←  ←	→ + + + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)	
INFO(crgt)		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  ←  ←  ←	→ + + + + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crgt) APM(crga)	
200 OK INFO → 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  ←  ←  ←  ←	→ + + + + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crgt) APM(crga)	
200 OK INFO → 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  ←  ←  ←  ←	→ + + + + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) 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 →  ←  ←  ←  ←  ←	→ + + + + + + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)	
A 1		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 →  ←  ←  ←  ←  ←  ←  ←  ←	→ + + + + + + +	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)  ACM APM(crgt) APM(crga)	
Apply post test routine		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 →  ←  ←  ←  ←  ←  ←  ←  ←  ←  ←  ←  ←	→ ←→ ←→ ←+	ISUP IAM  APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crga)  ACM APM(crgt) APM(crga)	

TP number	TP_121_004	Reference		4.6.1/ <b>[6</b> ]
TSS reference	SIP-ISUP/Basic call/Chargin	ng/		
Selection criteria	PICS 6.2.1/13			
Test Purpose name	Mapping of ISUP 'currentTa	riffCurrency/ Communica	tionCh	argeCurrency /tariffDuration'
_	into SIP SCI XML 'currentTa	riffCurrency/tariffDuration	n' eler	ment
Test Purpose	Ensure that on receipt of an			
	containing an APP coded as	s 'Charging ASE' a SIP 18	33 Ses	sion Progress or 180 Ringing
	or an INFO request is sent.			
				cy' - 'tariffDuration' parameter
	in the encapsulated charging			
IOUD D	'communicationChargeSequ	ienceCurrency - tariffDu	ration	element.
ISUP Parameter values	APP			
	crgt			
	tariffCurrency currentTariffCurre	nnov.		
		onChargeCurrency		
		ion=[any value]		
SIP Parameter values	18x/200/INFO:	on-[uny valuo]		
	10,0200,1111 0.			
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency>			
	< currentTari			
		ınicationChargeSequenc		ncy>
_	< tarif	fDuration>[any value] </th <th></th> <th></th>		
Comments	84.0	MGCF		ISUP
Message flows	Mg INVITE	₩GCF	<b>→</b>	IAM
	IIIVIIE	7	7	IAW
	CASE A			
	183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crgt)
	100 Session Flogress(crgt)	•	÷	APM(crga)
				Al M(ciga)
	CASE B			
	180 / 183 (crgt)	<b>←</b>	<b>←</b>	ACM(crgt)
	1007 100 (6191)	•	À	APM(crga)
			-	/ ii ivi(orga)
	CASE C			
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	183 Session Progress(crgt)	<del>-</del>	÷	APM(crgt)
		_	<b>→</b>	APM(crga)
				(9)
	CASE D			
	400 Dimerina	<b>←</b>	<b>←</b>	ACM
	1180 Ringing			
	180 Ringing 200 OK INVITE	<del>(</del>	<b>←</b>	ANM
			<b>←</b>	ANM
			<b>←</b>	ANM
	200 OK INVITE	<b>←</b>	<b>+</b>	ANM APM(crgt)
	200 OK INVITE ACK	<b>←</b> <b>→</b>	_	
	200 OK INVITE  ACK INFO(crgt)	<b>← → ←</b>	<b>←</b>	APM(crgt)

TP number	ΓP_121_005	Reference	4.6.1/ [6]
TSS reference	SIP-ISUP/Basic call/Chargin	g/	
Selection criteria	PICS 6.2.1/13		
	Mapping of ISUP 'currentTar		
			y/subTariffControl' element
			arameter in an ACM or APM
			Session Progress or 180 Ringing
	or an INFO request is sent. A		
	The 'currentTariffCurrency' - parameter in the encapsulate		
			eCurrency' - 'subTariffControl'
	element.	inanication enarge equence	Sub ranii Control
	\PP		
	crgt		
	tariffCurrency		
	currentTariffCurre	ncy	
		nChargeCurrency	
		ontrol=[any value]	
SIP Parameter values 1	18x/200/INFO:		
	-		
	<pre>c messageType &gt;</pre>		
	< crgt> < chargingTariff>		
	< tariffCurrency>		
	< currentTarii		
		nicationChargeSequenceCu	rrencv>
		[any value] </th <th></th>	
Comments			
Message flows	Mg	MGCF	ISUP
	NVITE	<b>→</b>	<b>→</b> IAM
	CASE A	_	
	183 Session Progress(crgt)		← APM(crgt)
		•	→ APM(crga)
	CACE D		
	CASE B	<b>E</b>	A CNA(orest)
	180 / 183 (crgt)		<ul><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>
			Arivi(ciya)
1	CASE C		
	CASE C	<b>4</b>	<b>←</b> ACM
	180 Ringing	<b>←</b>	← ACM ← APM(crat)
		<b>←</b>	← APM(crgt)
	180 Ringing	<b>←</b>	_
1	180 Ringing	<b>←</b>	← APM(crgt)
	180 Ringing 183 Session Progress(crgt)	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
1	180 Ringing 183 Session Progress(crgt)	<b>+</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
1	180 Ringing 183 Session Progress(crgt) CASE D 180 Ringing	<b>+</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>
1	180 Ringing 183 Session Progress(crgt) CASE D 180 Ringing 200 OK INVITE	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>
1 1 1 2 4	180 Ringing 183 Session Progress(crgt) CASE D 180 Ringing 200 OK INVITE	<b>← ← ← →</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>
	180 Ringing 183 Session Progress(crgt) CASE D 180 Ringing 200 OK INVITE	<b>← ← ← →</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li><li>← ANM</li></ul>

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		dicators' into SIP SCI XML	
	'currentTariffCurrency/tariffC			
Test Purpose			t parameter in an ACM or APM	
	containing an APP coded as	'Charging ASE' a SIP 183	Session Progress or 180 Ringing	9
	or an INFO request is sent.	A XML 'SCI' element is pres	esent.	
	The 'currentTariffCurrency' -		rameter in the encapsulated iffCurrency' - 'tariffControlIndicato	ro'
	element.	o the SCI AME currentrain	incurrency - tariffcontrollindicato	15
ISUP Parameter values	APP			
loor rarameter values	crgt			
	tariffCurrency			
	currentTariffCurre	encv		
	tariffControllno			
	non-cyclic	Tariff = 1		
SIP Parameter values	18x/200/INFO:			
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency>			
	< currentTari	πcurrency> ntrollndicators>1 </th <th></th> <th></th>		
Comments	< tallico	Titroffridicators>1		
Message flows	Mg	MGCF	ISUP	
meesage neme	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	<del>-</del>	← ACM	
	183 Session Progress(crgt)	<b>←</b>	← APM(crgt)	
			→ APM(crga)	
	CASE D			
	CASE D	_	€ ACM	
	180 Ringing	<b>←</b>	← ACM ← ANM	
	200 OK INVITE	~	AINIVI	
				Į
	VCK	4		
	ACK	<del>}</del>	← ∆PM(crat)	
	INFO(crgt)	<b>←</b>	← APM(crgt)	
			→ APM(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			rgeCurrency' into SIP SCI XML
	'currentTariffCurrency/callAt		
Test Purpose	containing an APP coded as or an INFO request is sent.	'Charging ASE' a SIP 183 A XML 'SCI' element is pres 'callAttemptChargeCurrenc o the SCI XML 'currentTariff	cy' parameter in the encapsulated
ISUP Parameter values	APP		
		argeCurrency	
SIP Parameter values	18x/200/INFO:		
	< curr		
Comments			
Message flows	Mg INVITE	MGCF →	→ IAM
	CASE A 183 Session Progress(crgt)	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
	CASE B 180 / 183 (crgt)	€	<ul><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>
	CASE C 180 Ringing 183 Session Progress(crgt)	<b>←</b> <b>←</b>	<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>	← ACM ← ANM
	INFO(crgt) 200 OK INFO	← → Apply post test routin	← APM(crgt) → APM(crga) ne

TP number	TP_121_008	Reference	4.6.1/ [6]		
TSS reference	SIP-ISUP/Basic call/Chargin		1.0.17 [0]		
Selection criteria	PICS 6.2.1/13	·9·			
Test Purpose name		riffCurrency/callSetupCharge	Currency' into SIP SCI XML		
Table   11   11   12   13   13   13   13   13	'currentTariffCurrency/ callS		, cac.,		
Test Purpose			parameter in an ACM or APM		
-			Session Progress or 180 Ringing		
	or an INFO request is sent. A				
	The 'currentTariffCurrency' -	'callSetupChargeCurrency'	parameter in the encapsulated		
	charging ASE is mapped into		Currency' -		
	'callSetupChargeCurrency' e	element.			
ISUP Parameter values	APP				
	crgt				
	tariffCurrency				
	currentTariffCurre				
	callSetupChar				
	currencyFa				
		cyFactor=[any value]			
SIP Parameter values		cyScale=[ <i>any value</i> ]			
SIP Parameter values	18x/200/INFO:				
	< messageType >				
	< messageType > < crgt>				
	< chargingTariff>				
	< tariffCurrency>				
	< tariffcurrency> < chargingTariff>				
	< charging rann> < currentTariffCurrency>				
		SetupChargeCurrency>			
	< currencyFactor>[any value] </th				
		currencyScale>[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				
	180 / 183 (crgt)	<b>←</b>	← ACM(crgt)		
			→ APM(crga)		
	CASE C				
	O/IOL O				
	180 Ringing	<b>←</b>	<b>←</b> ACM		
		-	<ul><li>← ACM</li><li>← APM(crgt)</li></ul>		
	180 Ringing	<del>-</del>			
	180 Ringing 183 Session Progress(crgt)	<del>-</del>	← APM(crgt)		
	180 Ringing	<del>-</del>	← APM(crgt)		
	180 Ringing 183 Session Progress(crgt)	<b>+</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>		
	180 Ringing 183 Session Progress(crgt)  CASE D	<b>+</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>		
	180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li></ul>		
	180 Ringing 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>		
	180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK  INFO(crgt)	<b>← ← ← ← ←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>← ACM</li><li>← ANM</li><li>← APM(crgt)</li></ul>		
	180 Ringing 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> <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			[4.0.1/ [0]	
Selection criteria	PICS 6.2.1/13	·9·			
Test Purpose name	Mapping of ISUP 'nextTariff0	Currency/CommunicationCh	narge	eCurrency/	
	currencyFactorScale' into SI				
	'nextTariffCurrency/commun		rrend	cy/ currencyFactorScale'	
	element	-			
Test Purpose	Ensure that on receipt of an				
				sion Progress or 180 Ringing	
	or an INFO request is sent.	A XML 'SCI' element is pres	ent.		
	The 'tariffSwitchCurrency' - '				
	'currencyFactorScale' param SCI XML 'tariffSwitchCurren		ıargır	ng ASE is mapped into the	
	'communicationChargeSequ		Eacto	orScale' element	
ISUP Parameter values	APP	encecurrency - currency	acit	Discale element.	
Tarameter values	crgt				
	tariffCurrency				
	tariffSwitchCurrer	ncv			
	nextTariffCurr				
		cationChargeCurrency			
	currence	cyFactorScale			
	cur	rencyFactor=[ <i>any value</i> ]			
		rencyScale=[ <i>any value</i> ]			
SIP Parameter values	18x/200/INFO:				
	_				
	< messageType >				
	< crgt>				
	< chargingTariff> < tariffCurrency>				
	< tariffSwitch				
	< nextTariffCurrency>				
	< currencyFactorScale>				
		< currencyFactor>[any va	lue] •	</th	
		< currencyScale>[any val	ue] </th <th>•••</th>	•••	
Comments					
Message flows	Mg	MGCF		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	0405.4				
	CASE A	_	_	A DNA(avet)	
	183 Session Progress(crgt)	•	<b>←</b>	APM(crgt) APM(crga)	
			7	AFIVI(CIga)	
	CASE B				
	180 / 183 (crgt)	<b>←</b>	<b>←</b>	ACM(crgt)	
	100 / 100 (ergt)	•	÷	APM(crga)	
			•	711 W(crga)	
	CASE C				
	CASE C	<b>←</b>	+	ACM	
	180 Ringing	<b>+</b>	<b>←</b>	ACM APM(crat)	
		<del>←</del>	<b>←</b> <b>←</b>	APM(crgt)	
	180 Ringing		<b>←</b>		
	180 Ringing		<b>←</b>	APM(crgt)	
	180 Ringing 183 Session Progress(crgt)		<b>←</b>	APM(crgt)	
	180 Ringing 183 Session Progress(crgt)	<b>←</b>	<b>←</b> →	APM(crgt) APM(crga)	
	180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+</b>	<b>← → ←</b>	APM(crgt) APM(crga)	
	180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ←</b>	<b>← → ←</b>	APM(crgt) APM(crga) ACM	
	180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE	<b>← ← ← →</b>	<b>← → ←</b>	APM(crgt) APM(crga)	
	180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ← →</b>	<b>← → ← ←</b>	APM(crgt) APM(crga)  ACM ANM	

TP number	TP_121_010	Reference	4.6.1/ [6]			
TSS reference	SIP-ISUP/Basic call/Chargin		[ <del>4</del> .0.17 [0]			
Selection criteria	PICS 6.2.1/13	9/				
Test Purpose name		Currency/Communication/Ch	nargeCurrency/ tariffDuration' into			
root raipodo namo	SIP SCI XML 'nextTariffCurr					
	tariffDuration' element					
Test Purpose			parameter in an ACM or APM			
			Session Progress or 180 Ringing			
	or an INFO request is sent.					
	The 'tariffSwitchCurrency' - '	nextraniiCurrency - Comm	SE is mapped into the SCI XML			
	tariffSwitchCurrency' - 'nevt	TariffCurrency' - 'communic	cationChargeSequenceCurrency			
	- 'tariffDuration' element.	Tarin Garrency Communic	cationonargeocquenceourrency			
ISUP Parameter values	APP					
ioor rarameter values	crgt					
	tariffCurrency					
	tariffSwitchCurren	ICV				
	nextTariffCurr					
		ationChargeCurrency				
	tariffDu					
SIP Parameter values	18x/200/INFO:					
	_					
	< messageType >					
	< crgt>					
	< chargingTariff>					
		< tariffCurrency>				
	< tariffSwitchCurrency>					
	< nextTariffCurrency>					
		tariffDuration>	Courterioy >			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	CASE A					
	183 Session Progress(crgt)	<b>←</b>	← APM(crgt)			
			→ APM(crga)			
	CASE B	_	<b>5</b> • • • • • • • • • • • • • • • • • • •			
	180 / 183 (crgt)	<b>←</b>	← ACM(crgt)			
			→ APM(crga)			
	CASE C					
	CASE C	_	<b>4</b> ACM			
	180 Ringing	<del>(</del>	← ACM			
	183 Session Progress(crgt)	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>			
			→ APM(crga)			
	CASE D					
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	200 OK INVITE	<b>+</b>	← ANM			
	ACK	<b>→</b>	ZINIVI			
	AOR	-				
	INFO(crgt)	<b>←</b>	← APM(crgt)			
	200 OK INFO		→ APM(crga)			
	200 010 1101 0	Apply post test routing				
		Apply post test routill	<u> </u>			

TP number	TP_121_011	Reference	4.6.1/[6]			
TSS reference	SIP-ISUP/Basic call/Chargin		1 [0]			
Selection criteria	PICS 6.2.1/13	<i>y</i>				
Test Purpose name	Mapping of ISUP 'nextTariff0	Currency/CommunicationCharg Currency/communicationCharg				
Test Purpose	containing an APP coded as or an INFO request is sent. A The 'tariffSwitchCurrency' - 'i 'subTariffControl' parameter XML 'tariffSwitchCurrency' -	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 'tariffSwitchCurrency' - 'nextTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter in the encapsulated charging ASE is mapped into the SCI XML 'tariffSwitchCurrency' - 'nextTariffCurrency' - 'subTariffControl' element.				
ISUP Parameter values	APP crgt tariffCurrency tariffSwitchCurren	icv				
	nextTariffCurro Communic subTar					
SIP Parameter values	18x/200/INFO: < messageType >					
	< com		Currency>			
Comments	, ,	odb rann control				
Message flows	Mg	MGCF	ISUP			
mossage news	INVITE	→ →				
	CASE A 183 Session Progress(crgt)	<b>← ← ← →</b>	/(o.g.)			
	<b>CASE B</b> 180 / 183 (crgt)	<b>← ← ←</b>	ACM(crgt) APM(crga)			
	CASE C 180 Ringing 183 Session Progress(crgt)	<b>← ← ← ← ← ← ←</b>	APM(crgt)			
	CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ← ←</b>				
	INFO(crgt) 200 OK INFO	← ← ← ← → → Apply post test routine	( - 3 )			

TSS reference	TP_121_012	Reference		4.6.1/ [6]
100 ICICICIICC	SIP-ISUP/Basic call/Chargin	ng/		
Selection criteria	PICS 6.2.1/13			
Test Purpose name	Mapping of ISUP 'nextTariff(	Currency/tariffControlIndica	ators'	into SIP SCI XML
	'nextTariffCurrency/tariffCor	ntrolIndicators'		
Test Purpose	Ensure that on receipt of an			
				sion Progress or 180 Ringing
	or an INFO request is sent.			
				ollndicators' parameter in the
	encapsulated charging ASE			riffSwitchCurrency' -
IOUR R	'nextTariffCurrency' - 'tariffC	controllndicators' element	<u>.                                    </u>	
ISUP Parameter values	APP			
	crgt			
	tariffCurrency	201		
	tariffSwitchCurrer nextTariffCurr			
		olIndicators		
		clicTariff		
SIP Parameter values	18x/200/INFO:	CIICTAIIII		
on randingtor rando	100/200/1141 0.			
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency>	>		
	< tariffSwitch			
	< nextTai	riffCurrency>		
	< tarif	ffControlIndicators>		
Comments				10115
Message flows	Mg	MGCF		ISUP
	Mg INVITE	MGCF	<b>→</b>	ISUP IAM
	INVITE		<b>→</b>	
	INVITE CASE A	<b>→</b>	_	IAM
	INVITE	<b>→</b>	<b>←</b>	IAM APM(crgt)
	INVITE CASE A	<b>→</b>	_	IAM
	INVITE  CASE A  183 Session Progress(crgt)	<b>→</b>	<b>←</b>	IAM APM(crgt)
	INVITE  CASE A 183 Session Progress(crgt)  CASE B	<b>→</b> ←	<b>←</b>	IAM APM(crgt) APM(crga)
	INVITE  CASE A  183 Session Progress(crgt)	<b>→</b>	<b>←</b> →	APM(crgt) APM(crga) ACM(crgt)
	INVITE  CASE A 183 Session Progress(crgt)  CASE B	<b>→</b> ←	<b>←</b>	IAM APM(crgt) APM(crga)
	INVITE  CASE A 183 Session Progress(crgt)  CASE B 180 / 183 (crgt)	<b>→</b> ←	<b>←</b> →	APM(crgt) APM(crga) ACM(crgt)
	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)
	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)
	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C	<b>→</b> ←	← → ← →	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)
	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)
	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)	<b>→ ←</b>	← → ← →	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)
	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D	← ← ←	+ <del>+ + + + + + + + + + + + + + + + + + </del>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt)
	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing	←	+ <del>+ + + + + + + + + + + + + + + + + + </del>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crgt)
	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	← ← ← ← ←	+ <del>+ + + + + + + + + + + + + + + + + + </del>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt)
	INVITE  CASE A  183 Session Progress(crgt)  CASE B  180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)  CASE D  180 Ringing	←	+ <del>+ + + + + + + + + + + + + + + + + + </del>	APM(crgt) APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crgt)
	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)
	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(crgt) ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crgt) APM(crgt)
	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_013	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	Mapping of ISUP 'nextTariffC	Currency/callAttemptCharge	Currency' in	to SIP SCL XMI
rest i di pose name	'nextTariffCurrency/callAtter		Currency in	IO OII OOI XIVIL
Test Purpose	Ensure that on receipt of an		narameter in	an ACM or APM
l soci i di poss	containing an APP coded as			
	or an INFO request is sent. A			grood or roo ranging
	The 'tariffSwitchCurrency' - 'r			Currency' parameter
	in the encapsulated charging			
	'nextTariffCurrency' - 'callAtte			,
ISUP Parameter values	APP	1 3		
	crgt			
	tariffCurrency			
	tariffSwitchCurren	cv		
	nextTariffCurre			
		tChargeCurrency		
		yFactorScale		
		encyFactor=[ <i>any value</i> ]		
		encyScale=[any value]		
SIP Parameter values	18x/200/INFO:			
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency>			
	< tariffSwitch			
		iffCurrency>		
		AttemptChargeCurrency>	,	
		currencyFactor>[any value]		
Commonto	< (	currencyScale>[any value]<	<del>4</del>	
Comments Magazine flows	Ma	MGCF		ISUP
Message flows	Mg		-> 1004	ISUP
	INVITE	<b>→</b>	→ IAM	
	CASE A			
			<b>←</b> APM(c	
	183 Session Progress(crgt)	<b>←</b>	← APM(c	
			→ APM(c	erga)
	0.405.5			erga)
	CASE B	_	→ APM(c	• /
	<b>CASE B</b> 180 / 183 (crgt)	<b>←</b>	<ul><li>→ APM(c</li><li>← ACM(c</li></ul>	ergt)
		<b>←</b>	→ APM(c	ergt)
	180 / 183 (crgt)	<b>←</b>	<ul><li>→ APM(c</li><li>← ACM(c</li></ul>	ergt)
	180 / 183 (crgt)  CASE C		<ul><li>→ APM(c</li><li>← ACM(c</li><li>→ APM(c</li></ul>	ergt)
	180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<ul> <li>→ APM(c</li> <li>← ACM(c</li> <li>→ APM(c</li> </ul>	ergt) erga)
	180 / 183 (crgt)  CASE C		<ul> <li>→ APM(c</li> <li>← ACM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<ul> <li>→ APM(c</li> <li>← ACM(c</li> <li>→ APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C  180 Ringing  183 Session Progress(crgt)	<b>←</b>	<ul> <li>→ APM(c</li> <li>← ACM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D	<b>←</b>	<ul> <li>→ APM(c</li> <li>→ ACM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>← ←</b>	<ul> <li>→ APM(c</li> <li>← ACM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE	<b>←</b> <b>←</b>	<ul> <li>→ APM(c</li> <li>→ ACM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>← ←</b>	<ul> <li>→ APM(c</li> <li>← ACM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> </ul>	ergt) erga) ergt)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ← ← →</b>	<ul> <li>→ APM(c</li> <li>→ APM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← ANM</li> </ul>	ergt) ergt) ergt) erga)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK  INFO(crgt)	<b>← ← ← ← → ←</b>	<ul> <li>→ APM(c</li> <li>→ APM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← APM(c</li> </ul>	ergt) ergt) ergt) erga)
	180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← ← ← →</b>	<ul> <li>→ APM(c</li> <li>→ APM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> <li>← ACM</li> <li>← ACM</li> <li>← ACM</li> <li>← APM(c</li> <li>→ APM(c</li> </ul>	ergt) ergt) ergt) erga)

TP number	TP_121_014	Reference		4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Chargin			<del>-1</del> .0.1/ [0]
Selection criteria	PICS 6.2.1/13	19/		
Test Purpose name	Mapping of ISUP 'nextTariffo	Currency/callSetunCharge(	urre	nev' into SIP SCLXMI
rest i di pose name	'nextTariffCurrency/callSetu		Juliei	icy into Sir Scr XIVIL
Test Purpose	Ensure that on receipt of an	ISLIP Application transport	nara	meter in an ACM or APM
rest i dipose				ion Progress or 180 Ringing
	or an INFO request is sent.			ion i rogress or roo kinging
				hargeCurrency' parameter in
	the encapsulated charging A			
	'nextTariffCurrency' - 'callSe			tarmownerrouriericy
ISUP Parameter values	APP	taponargoodirency eleme		
loor randingtor rando	crgt			
	tariffCurrency			
	tariffSwitchCurrer	ncv		
	nextTariffCurr			
		ChargeCurrency		
		cyFactorScale		
		rencyFactor=[any value]		
		rencyScale=[any value]		
SIP Parameter values	18x/200/INFO:	ioney econe [uny rande]		
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency:	>		
	< tariffSwitch	Currency>		
		riffCurrency>		
	< callSetupChargeCurrency>			
		currencyFactor>[any value		
	<	currencyScale>[ <i>any value</i> ]	</th <th></th>	
Comments				
Message flows	Mg	MGCF	_	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
İ				
	CASE A			
	CASE A 183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crgt)
		<b>←</b>	<b>←</b> →	APM(crgt) APM(crga)
	183 Session Progress(crgt)	<del>&lt;</del>		
		<b>←</b>		
	183 Session Progress(crgt)	<b>+</b>		APM(crga) ACM(crgt)
	183 Session Progress(crgt)  CASE B		<b>→</b>	APM(crga) ACM(crgt)
	183 Session Progress(crgt)  CASE B		<b>→</b>	APM(crga)
	183 Session Progress(crgt)  CASE B		<b>→</b>	APM(crga) ACM(crgt)
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C		<b>→</b>	APM(crga) ACM(crgt)
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>←</b>	<b>→ ← →</b>	APM(crga)  ACM(crgt) APM(crga)  ACM
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C	<b>+</b>	→ ← →	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing	<b>+</b>	+ + + + +	APM(crga)  ACM(crgt) APM(crga)  ACM
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)	<b>+</b>	+ + + + +	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt)
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D	<b>← ← ←</b>	→	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+ + +</b>	+ + + + +	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)
	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>	<b>+ + + + +</b>	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)
	183 Session Progress(crgt)  CASE B 180 / 183 (crgt)  CASE C 180 Ringing 183 Session Progress(crgt)  CASE D 180 Ringing	<b>+ + +</b>	<b>+ + + + +</b>	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)
	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	<b>← ← ← ← ← ← ←</b>	<b>+ + + + +</b>	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)  ACM ANM
	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)	← ← ← ←	<b>→ ← → ← →</b>	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)  ACM ANM
	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	<b>← ← ← ← ← ← ←</b>	<b>+ + + + + + +</b>	APM(crga)  ACM(crgt) APM(crga)  ACM APM(crgt) APM(crgt) APM(crga)  ACM ANM

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	hCurrency/tariffSwitchov	erTime'	into SIP SCI XML
	'tariffSwitchCurrency/tariffS			
Test Purpose	Ensure that on receipt of an	ISUP Application transpo	ort para	meter in an ACM or APM
-	containing an APP coded as	'Charging ASE' a SIP 1	83 Sess	sion Progress or 180 Ringing
	or an INFO request is sent.			
	The 'tariffSwitchCurrency' - '	tariffSwitchoverTime' pai	rameter	in the encapsulated charging
	ASE is mapped into the SCI	XML 'tariffSwitchCurren	cy' - 'tar	riffSwitchoverTime' element.
ISUP Parameter values	APP			
	crgt			
	tariffCurrency			
	tariffSwitchCurrer	ncy		
	tariffSwitchove	erTime		
SIP Parameter values	18x/200/INFO:			
	< messageType >			
	< crgt>			
	< chargingTariff>			
	< tariffCurrency>			
	< tariffSwitch			
	< tariffSw	vitchOverTime>		
Comments	NA	МООБ		ISUB
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	0.405.4			
	CASE A	-	-	4 <b>53.4</b> ( )
	183 Session Progress(crgt)	<b>←</b>	É	APM(crgt)
			<b>→</b>	APM(crga)
	0405.5			
	CASE B	_	_	
	180 / 183 (crgt)	+	É	ACM(crgt)
			<b>→</b>	APM(crga)
	CASE C	_	_	
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	183 Session Progress(crgt)	+	+	APM(crgt)
			<b>→</b>	APM(crga)
	CASE D	_		
	180 Ringing	<del>-</del>	<b>←</b>	ACM
	200 OK INVITE	<del>-</del>	<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 rou	utine	

TP number	TP_121_016	Reference	4.6.1/[6]	
TSS reference	SIP-ISUP/Basic call/Chargin		1 [0]	
Selection criteria	PICS 6.2.1/13	· <i>코</i> ′		
Test Purpose name	Mapping of ISUP two sub ta CommunicationChargeCurre 'currentTariffCurrency/ comrelements	ency /currencyFactorScale municationChargeSequence	e' into two SIP SCI XML eCurrency /currencyFactorScale	e'
Test Purpose	containing an APP coded as or an INFO request is sent. Two sub tariffs in the 'currencyFactorScale' param SCI XML two sub tariffs in the 'communicationChargeSequestrian containing the sequestrian and the sequestrian are sequestrian as a sequestrian as a sequestrian are sequestrian as a sequestrian	s 'Charging ASE' a SIP 183 A XML 'SCI' element is pres atTariffCurrency' - 'Commun neter in the encapsulated ch ne 'currentTariffCurrency' -	nicationChargeCurrency' - harging ASE is mapped into the	
ISUP Parameter values	APP			
	currend cur cur Communio currend cur cur cur	urrency cationChargeCurrency cyFactorScale rencyFactor=[any value] rencyScale=[any value] cationChargeCurrency cyFactorScale rencyFactor=[any value] rencyScale=[any value]		
SIP Parameter values	18x/200/INFO:			
2	< curi		e] <br <br Currency>	
Comments				
Message flows	Mg INVITE  CASE A 183 Session Progress(crgt)	MGCF →	→ IAM  ← APM(crgt) → APM(crga)	
	CASE B 180 / 183 (crgt)	<b>←</b>	<ul><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>	
	180 Ringing 183 Session Progress(crgt)	<del>←</del> <del>←</del>	<ul><li>← ACM</li><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>	
	CASE D 180 Ringing 200 OK INVITE ACK	<b>← ← →</b>	← ACM ← ANM	
	INFO(crgt) 200 OK INFO	← → Apply post test routin	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li><li>ne</li></ul>	

TP number	TP_121_017
TSS reference	SIP-ISUP/Basic call/Charging/
Selection criteria	PICS 6.2.1/13
Test Purpose name	Mapping of ISUP two sub tariffs in 'nextTariffCurrency/CommunicationChargeCurrency/currencyFactorScale' into SIP SCI XML 'nextTariffCurrency/communicationChargeSequenceCurrency/currencyFactorScale' element
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.  Two sub tariffs in the 'tariffSwitchCurrency' - 'nextTariffCurrency' - 'CommunicationChargeCurrency' - 'currencyFactorScale' parameter in the encapsulated charging ASE is mapped into the SCI XML two subtariffs in the 'tariffSwitchCurrency' - 'nextTariffCurrency' - 'communicationChargeSequenceCurrency' - 'currencyFactorScale' element.
ISUP Parameter values	APP
	tariffCurrency tariffSwitchCurrency nextTariffCurrency CommunicationChargeCurrency currencyFactorScale currencyFactor=[any value] currencyScale=[any value] CommunicationChargeCurrency currencyFactorScale currencyFactorScale currencyFactorScale currencyFactor=[any value] currencyFactor=[any value]
SIP Parameter values	18x/200/INFO:  < messageType >
Comments	

Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	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	<del>(</del>	<b>←</b>	ACM
	183 Session Progress(crgt)	<b>←</b>	<b>←</b> →	APM(crgt) APM(crga)
	CASE D			
	180 Ringing	<b>←</b>	←	ACM
	200 OK INVITE	<del>(</del>	←	ANM
	ACK	<b>→</b>		
	INFO(crgt)	<b>←</b>	<b>←</b>	APM(crgt)
	200 OK INFO	<b>→</b>	<b>→</b>	APM(crga)
		Apply post test routing	ne	

TP number	TP_121_018	Reference		4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Chargin	ng/		
Selection criteria	PICS 6.2.1/13			
Test Purpose name	Mapping of ISUP crgt/origina	ationIdentification' into S	IP SCI	XML 'messageType /
	crgt/originationIdentification			
Test Purpose	Ensure that on receipt of an			
	containing an APP coded as	'Charging ASE' a SIP 1	83 Ses	sion Progress or 180 Ringing
	or an INFO request is sent.			
	The 'crgt' - 'originationIdentif			
	mapped into the SCI XML 'm	nessageType' - 'crgt' - 'o	riginatic	onIdentification' element.
ISUP Parameter values	APP			
	crgt			
	originationIdentification			
	networkIdentificat	ion		
	referenceID			
SIP Parameter values	18x/200/INFO:			
	< messageType >			
	< crgt>	nations		
	< networkIdentifi			
	< referenceID>	ication>		
Comments	( TelefeliceID>			
Message flows	Mg	MGCF		ISUP
meddage newe	INVITE	<b>→</b>	→	IAM
		-	-	
	CASE A			
	183 Session Progress(crgt)	<b>←</b>	<b>←</b>	APM(crat)
		_	<b>→</b>	APM(crga)
			-	, ii iii(e.ga)
	CASE B			
	180 / 183 (crgt)	<b>←</b>	+	ACM(crgt)
	(6.9.)	-	<b>→</b>	APM(crga)
			-	, ii iii(o.ga)
	CASE C			
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	183 Session Progress(crgt)	=	È	APM(crgt)
	100 Gession 1 Togress(ergt)	•	÷	APM(crga)
			-	7 ii M(crga)
	CASE D			
	180 Ringing	<b>←</b>	+	ACM
	200 OK INVITE	÷	÷	ANM
	ACK	<b>→</b>	•	, vi Aini
		•		
	INFO(crgt)	<b>←</b>	+	APM(crgt)
	200 OK INFO	<b>→</b>	<b>→</b>	APM(crga)
1	200 OK INFO	Apply post test ro		Ai Wi(Giga)
		Apply post test 10	utille	

TP number	TP_121_019	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 'crgt/currer element	ncy' into SIP SCI XML 'mess	sageType / crgt/ <b>currency</b> '
Test Purpose	containing an APP coded as or an INFO request is sent. A The 'crgt' - 'currency' parame XML 'messageType' - 'crgt' -	'Charging ASE' a SIP 183 A XML 'SCI' element is preseter in the encapsulated cha	arging ASE is mapped into the SCI
ISUP Parameter values	APP crgt currency		
SIP Parameter values	18x/200/INFO:  < messageType >  < crgt>  < currency>		
Comments			
Message flows	Mg INVITE	MGCF →	ISUP → IAM
	CASE A 183 Session Progress(crgt)	<b>←</b>	<ul><li>← APM(crgt)</li><li>→ APM(crga)</li></ul>
	<b>CASE B</b> 180 / 183 (crgt)	<del>&lt;</del>	<ul><li>← ACM(crgt)</li><li>→ APM(crga)</li></ul>
	CASE C 180 Ringing 183 Session Progress(crgt)	<b>←</b> <b>←</b>	<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>	← ACM ← ANM
	INFO(crgt) 200 OK INFO	← → Apply post test routin	← APM(crgt) → APM(crga)

TP number	TP_121_020	Reference	4.	.6.1/ [6]
TSS reference	SIP-ISUP/Basic call/Char	ging/	•	
Selection criteria	PICS 6.2.1/13	<u> </u>		
Test Purpose name	Mapping of ISUP 'aocrg /	chargingControlIndicat	ors' into SIP S	CI XML body 'aocrg /
_	chargingControlIndicat			, 0
Test Purpose	Ensure that on receipt of			
			d dialogue, an	INFO request is sent. An
	XML 'SCI' element is pres			
	The 'aocrg' - 'chargingCo			
	parameter in the encapsu			
	'chargingControlIndicator	s' - 'immediateChangeC	)fActuallyAppli	ed I ariff' element in the
IOUD D	INFO request.			
ISUP Parameter values	APM			
	APP			
	aocrg	alladiaatara		
	chargingContro	oimaicators ChangeOfActuallyApplie	dTariff	
SIP Parameter values	INFO:	SharigeOlActuallyApplic	tu i aiiii	
on rarameter values	W 0:			
	< messageType >			
	< aocrg>			
	< chargingContro	ollndicators>		
		ChangeOfActuallyApplie	dTariff>	
Comments				
Message flows	Mg	MGCF		ISUP
	INVITE	<b>→</b>	<b>→</b> 1/2	AM
	180 Ringing	<del>-</del>	<b>←</b> A	CM
	200 OK INVITE	<del>-</del>	<b>←</b> A	NM
	ACK	<b>→</b>		
	INFO(aocrg)	<b>←</b>		PM(aocrg)
	200 OK INFO	<b>→</b>		PM(crga)
		Apply post test	routine	

Selection criteria PICS 6. Test Purpose name Mappin 'addOn' Test Purpose Ensure an APP XML 'S' The 'ao encaps 'addOn' ISUP Parameter values APM APF  SIP Parameter values INFO:  < mes < a  Comments Message flows INVITE	JP/Basic call/Charging		4.6.1/ [6]
Test Purpose name   Mappin   'addOn'   'addOn'   Test Purpose   Ensure   an APP   XML 'Stand   XML 'Stand   XML 'Stand   XML 'Stand   XML   XML 'Stand   XMM   APF   XMM   APF   XMM   XMM	= = = = = = = = = = = = = = = = =	/	
'addOni   Test Purpose   Ensure   an APP   XML 'Si   The 'ao   encaps   'addOni   ISUP Parameter values   APM   APF   3   3   3   3   3   3   3   3   3			
an APP XML 'St The 'ao encaps 'addOn' ISUP Parameter values  APM APF  APF  A  SIP Parameter values  INFO:  < mes	g of ISUP 'aocrg / add ChargeCurrency'	OnChargeCurrency' into SIP S	SCI XML body 'aocrg /
SIP Parameter values INFO:  < mes     < a Comments Message flows INVITE	coded as 'Charging A Cl' element is present. crg' - 'addOnChargeCu ulated charging ASE is	SUP Application transport para SE' in the confirmed dialogue urrency' - 'currencyFactorScal a mapped into the SCI XML 'a ent in the INFO request.	e, an INFO request is sent. An
Comments Message flows INVITE	aocrg addOnChargeCurre currencyFactors currencyFac		
Message flows		urrency> tor>[any value] <br le>[any value] </th <th></th>	
INVITE			
	ocrg)	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/Charg	ing/	
Selection criteria	PICS 6.2.1/13		
Test Purpose name	Mapping of ISUP 'aocrg / o 'originationIdentification'	riginationIdentification' into	SIP SCI XML body 'aocrg /
Test Purpose	an APP coded as 'Charging XML 'SCI' element is prese The 'aocrg' - 'originationIde	g ASE' in the confirmed dialont.  Intification' parameter in the	t parameter in an APM containing ogue, an INFO request is sent. An encapsulated charging ASE is tion' element in the INFO request.
ISUP Parameter values	APM APP aocrg originationIdenti networkIdenti referenceID		
SIP Parameter values	INFO:  < messageType >  < aocrg>  < originationIdentif  < networkIdent  < referenceID>	ification>	
Comments			
Message flows	Mg INVITE 180 Ringing 200 OK INVITE ACK INFO(aocrg)	MGCF	ISUP  → IAM  ← ACM ← ANM  ← APM(aocrg)
	200 OK INFO	Apply post test routi	→ APM(crga) ne

TP number	TP_121_023	Reference	4.6.1/[6]
TSS reference	SIP-ISUP/Basic call/Charging	<u>,</u>	
Selection criteria	PICS 6.2.1/13		
Test Purpose name	Mapping of ISUP 'aocrg / curr	ency' into SIP SCI XML body	aocrg / 'currency'
Test Purpose	Ensure that on receipt of an I	SUP Application transport para	ameter in an APM containing
		SE' in the confirmed dialogue	, an INFO request is sent. An
	XML 'SCI' element is present.		
		eter in the encapsulated charg	ging ASE is mapped into the
	SCI XML 'aocrg' - 'currency' e	element in the INFO request.	
ISUP Parameter values	APM		
	APP		
	aocrg		
	currency		
SIP Parameter values	INFO:		
	< messageType >		
	< aocrg>		
	< currency>		
Comments			
Message flows	Mg	MGCF	ISUP
		<b>→</b> →	IAM
	180 Ringing	<b>+ +</b>	ACM
	200 OK INVITE	<del>+</del> +	ANM
	ACK	<b>→</b>	
	INFO(aocrg)	<b>← ←</b>	APM(aocrg)
	, 0,	<b>→ →</b>	APM(crga)
		Apply post test routine	,

### 6.1.3.2 Outgoing Call Interworking O-MGCF

TP number	TP_221_001	Ref	erence	4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca	III/Charging/		1 2 1
Selection criteria	PICS 6.2.1/13	<u> </u>		
Test Purpose name	Mapping of SCI XI	//L into ISUP crg	t basic function	
Test Purpose	Ensure that on rec a XML SCI SIP me parameter is prese	eipt of a 183 Ses essage body an A ent. The Applicati	ssion Progress, 180 APM or ACM messa on context Identifie	Ringing or INFO request containing age is sent and an ISUP APP r is set to 'Charging ASE' and the encapsulated information.
ISUP Parameter values	APM			
SIP Parameter values	Encapsulate Chargin	Context Identifie 1' (Charging ASI ed Application In g related Informa	E) formation	
SIP Parameter values	18x/200/INFO XML SIP Trans	fer of Tariff		
Comments				
Message flows	ISUP IAM	<b>→</b>	MGCF →	<b>Mg</b> INVITE
	CASE A APM(crgt) APM(crga)	<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>	3 3
	CASE D ACM ANM APM(crga)	<b>←</b> <b>←</b> <b>→</b>	<b>←</b> <b>←</b>	200 OK INVITE(crgt)
	CASE E ACM CPG(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>	<b>+</b>	
	ANM	<b>←</b>	<b>←</b> →	
	APM(crgt) APM(crga)	<b>←</b> →	← → pply post test rout	INFO(crgt) 200 OK INFO tine

TP number	TP_221_002	TF.	Reference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca				1
Selection criteria	PICS 6.2.1/13	, <b>G</b> a. gg,			
Test Purpose name		/IL 'immediate	ChangeOfActual	laaAvl	iedTariff' into ISUP APP crgt
Tool I all pool I allino	'chargingControllno				
Test Purpose					Ringing or INFO request containing
•					ge is sent and an ISUP APP
	parameter is prese				9
	The XML SCI 'crgt'		ontrollndicators' -		
				nt is m	napped into the ISUP APP
	encapsulated Char	ging ASE crg	it' - 'chargingCon	trollnd	licators' -
	'immediateChange	OfActuallyApp	oliedTariff' param	eter.	
ISUP Parameter values	APP		•		
	crgt				
		ntrollndicators	3		
	immedia	teChangeOfA	ActuallyAppliedTa	riff = 1	1
SIP Parameter values	18x/200/INFO:				
	< messageType	>			
	< crgt>				
		ControlIndica			
	< imme	ediateChange	OfActuallyApplied	dTariff	<sup>5</sup> >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)	→			
	, ,				
	CASE C				
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	CPG(crgt)	<del>-</del>		<del>-</del>	183 Session Progress(crgt)
	APM(crga)	<b>→</b>		-	100 00000111 1091000(0191)
	/(s. g.,	_			
	CASE D				
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	ANM	È		÷	200 OK INVITE(crgt)
	7 31 4141	•		À	ACK
				•	7.010
	APM(crgt)	<b>←</b>		<b>←</b>	INFO(crgt)
	APM(crga)	<b>→</b>		<b>→</b>	200 OK INFO
	Ar M(Ciga)	7		-	
			Apply post test	ra	ino

TP number	TP_221_003	Reference	е	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 'currentTariffCurren	cv/ communic	ationChargeSequenceCurrency/
root raiposo name	currencyFactorSca	ale' into ISUP APP crg nargeCurrency/ <b>curren</b>	t 'currentTariffC	Currency /
Test Purpose				Ringing or INFO request containing
l cot i di poss				ge is sent and an ISUP APP
	parameter is prese			
			ommunicationC	ChargeSequenceCurrency' -
				APP encapsulated Charging ASE
				cy' - 'currencyFactorScale'
	parameter.			
ISUP Parameter values	APP			
	crgt			
	tariffCu	rrency		
		entTariffCurrency		
	(	CommunicationCharge		
		currencyFactorScal		
		currencyFactor=		
OID Developed	40 /000/INIEO	currencyScale=	[any value]	
SIP Parameter values	18x/200/INFO:			
	< messageType			
	< crgt>	>		
	< charging	nTariff\		
		Currency>		
		currentTariffCurrency>		
		< communicationCha	raeSeauenceC	currency>
		< currencyFactorS		
		< currencyFac		l </th
		< currencySca		
Comments				
Message flows	ISUP	MG	CF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
	CASE A			
	APM(crgt)	<b>←</b>	+	183 Session Progress(crgt)
	APM(crga)	<b>→</b>		
	APM(crga)	<b>→</b>		
	, , ,	<b>→</b>		
	CASE B	<b>→</b>		
	, , ,	<b>→</b> ←	<b>+</b>	180 Ringing(crgt)
	CASE B	- -	<b>+</b>	180 Ringing(crgt)
	CASE B ACM(crgt)	<b>←</b>	<b>+</b>	180 Ringing(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b>	<b>←</b>	180 Ringing(crgt)
	CASE B ACM(crgt)	<b>←</b>	<b>←</b>	180 Ringing(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b>	<b>←</b>	180 Ringing(crgt)
	CASE B ACM(crgt) APM(crga)	<b>←</b>	<b>+</b>	180 Ringing(crgt)  183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga) CASE C	<b>←</b> →		
	CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt)	<b>←</b>		
	CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt)	<b>←</b>		
	CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt)	<b>←</b>		
	CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)	<b>←</b>		
	CASE B ACM(crgt) APM(crga)  CASE C CPG(crgt) APM(crga)	<b>←</b> →	<b>←</b>	183 Session Progress(crgt)
	CASE B ACM(crgt) APM(crga)  CASE C CPG(crgt) APM(crga)  CASE D ACM	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)  180 Ringing
	CASE B ACM(crgt) APM(crga)  CASE C CPG(crgt) APM(crga)  CASE D ACM	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt)
	CASE B ACM(crgt) APM(crga)  CASE C CPG(crgt) APM(crga)  CASE D ACM	<b>←</b> →	<b>+</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt) ACK
	CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	<b>←</b> → <b>← ←</b>	<b>← ← ← →</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt) ACK INFO(crgt)
	CASE B ACM(crgt) APM(crga)  CASE C  CPG(crgt) APM(crga)  CASE D ACM ANM	← → ← → ← ←	<b>+ + + + +</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE(crgt) ACK  INFO(crgt) 200 OK INFO

TP_221_004 ISUP-SIP/Basic c		ference	4.6.1/[6]
	all/Charging/		
PICS 6.2.1/13	an, orial girig,		
Mapping of SCI X tariffDuration' into tariffDuration'	ISUP APP crgt 'o	currentTariffCurrency	y/CommunicationChargeCurrency/
a XML SCI SIP m parameter is presonanteed. The XML SCI 'cure' tariffDuration' elements.	essage body an a ent. rentTariffCurrenc ment is mapped i	APM or ACM messa y' - 'communication0 nto the ISUP APP e	ge is sent and an ISUP APP  ChargeSequenceCurrency' - ncapsulated Charging ASE
crgt tariffCurrer current Cor	TariffCurrency mmunicationChar		
18x/200/INFO:  < messageType  < crgt>  < chargin  < tarif	> gTariff> fCurrency> currentTariffCurre < communicatio	ency> nChargeSequenceC	
ISUP IAM  CASE A APM(crgt) APM(crga)	<b>→</b> ← →	MGCF →	Mg INVITE  183 Session Progress(crgt)
ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	<b>← ← ← →</b>	<b>+</b>	180 Ringing(crgt)  180 Ringing  183 Session Progress(crgt)
ACM ANM APM(crgt) APM(crga)	<b>←</b> <b>←</b> <b>→</b>	← ← → pply post test rout	180 Ringing 200 OK INVITE ACK INFO(crgt) 200 OK INFO
	Mapping of SCI X tariffDuration' into tariffDuration'  Ensure that on rea XML SCI SIP m parameter is pres The XML SCI 'cur' tariffDuration' ele 'currentTariffCur	Mapping of SCI XML 'currentTariffour tariffDuration' into ISUP APP crgt 'c tariffDuration'  Ensure that on receipt of a 183 Sea a XML SCI SIP message body an aparameter is present.  The XML SCI 'currentTariffCurrency 'tariffDuration' element is mapped i 'currentTariffCurrency' - 'Communic APP crgt tariffCurrency currentTariffCurrency communication catariffCurrency communication catariffCurrency currentTariffCurrency communication catariffCurrency currentTariffCurrency communication catariffCurrency catariffCu	Mapping of SCI XML 'currentTariffCurrency/ communic tariffDuration' into ISUP APP crgt 'currentTariffCurrency tariffDuration'  Ensure that on receipt of a 183 Session Progress, 180 a XML SCI SIP message body an APM or ACM messa parameter is present.  The XML SCI 'currentTariffCurrency' - 'communicationC 'tariffDuration' element is mapped into the ISUP APP electrication communicationChargeCurrency ariffCurrency currentTariffCurrency curr

TP number	TSS reference Selection criteria Test Purpose name	ISUP-SIP/Basic con PICS 6.2.1/13 Mapping of SCI X subTariffControl' in		000	
Selection criteria	Selection criteria Test Purpose name	PICS 6.2.1/13  Mapping of SCI X subTariffControl' in	an onarging		e [e]
Test Purpose name  Mapping of SCI XML 'currentTariffCurrency/ communicationChargeSequenceCurrency/ subTariffControl' into ISUP APP crgt 'currentTariffCurrency/ CommunicationChargeCurrency/subTariffControl'  Test Purpose  Ensure that on receipt of a 183 Session Progress, 180 Ringing or INFO request containi a XML SCI SIP message body an APM or ACM message is sent and an ISUP APP parameter is present.  The XML SCI 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.  APP  crgt tariffCurrency currentTariffCurrency currentTariffCurrency currentTariffCurrency subTariffControl=[any value]  SIP Parameter values  18x/200/INFO: $$	Test Purpose name	Mapping of SCI X subTariffControl' in			
subTariffControl' into ISUP APP crgt 'currentTariffCurrency/ CommunicationChargeCurrency/subTariffControl'  Test Purpose  Ensure that on receipt of a 183 Session Progress, 180 Ringing or INFO request containi a XML SCI SIP message body an APM or ACM message is sent and an ISUP APP parameter is present.  The XML SCI 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE 'currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.  ISUP Parameter values  APP  crgt     tariffCurrency     currentTariffCurrency     communicationChargeCurrency     subTariffControl=[any value]  SIP Parameter values  18x/200/INFO: <messagetype>     chargingTariff&gt;     chargingTariffCurrency&gt;     currentTariffCurrency&gt;     currentTariffCurrency&gt;     communicationChargeSequenceCurrency&gt;</messagetype>		subTariffControl' in	ML 'currentTariffCu	rrency/ communic	ationChargeSequenceCurrency/
CommunicationChargeCurrency/subTariffControl   Test Purpose	Test Purpose				
Ensure that on receipt of a 183 Session Progress, 180 Ringing or INFO request contains a XML SCI SIP message body an APM or ACM message is sent and an ISUP APP parameter is present.  The XML SCI 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE 'currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.  ISUP Parameter values  APP  crgt     tariffCurrency	Test Purpose	lCommunicationCr			,
a XML SCI SIP message body an APM or ACM message is sent and an ISUP APP parameter is present.  The XML SCI 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE 'currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.  ISUP Parameter values  APP  crgt tariffCurrency currentTariffCurrency currentTariffCurrency subTariffControl=[any value]  SIP Parameter values  18x/200/INFO:  messageType > crgt> chargingTariff> chargingTariff> currentTariffCurrency> currentTariffCurrency> currentTariffCurrency> communicationChargeSequenceCurrency>					Ringing or INFO request containing
parameter is present. The XML SCI 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE 'currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.  ISUP Parameter values  APP  crgt tariffCurrency currentTariffCurrency communicationChargeCurrency subTariffControl=[any value]  SIP Parameter values  18x/200/INFO: <messagetype> crgt&gt; ctariffCurrency&gt; ctariffCurrency&gt; currentTariffCurrency&gt; communicationChargeSequenceCurrency&gt; communicationChargeSequenceCurrency&gt;</messagetype>					
The XML SCI 'currentTariffCurrency' - 'communicationChargeSequenceCurrency' - 'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE 'currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.  ISUP Parameter values  APP  crgt     tariffCurrency					<b>.</b>
'subTariffControl' element is mapped into the ISUP APP encapsulated Charging ASE				- 'communicationC	ChargeSeguenceCurrency' -
currentTariffCurrency' - 'CommunicationChargeCurrency' - 'subTariffControl' parameter.    APP					
crgt tariffCurrency currentTariffCurrency CommunicationChargeCurrency subTariffControl=[any value]  SIP Parameter values  18x/200/INFO:  < messageType > < crgt> < chargingTariff> < tariffCurrency> < currentTariffCurrency> < communicationChargeSequenceCurrency>		'currentTariffCurre	ency' - 'Communica	tionChargeCurrenc	cy' - 'subTariffControl' parameter.
tariffCurrency	ISUP Parameter values	APP			
currentTariffCurrency CommunicationChargeCurrency subTariffControl=[any value]  SIP Parameter values  18x/200/INFO:  < messageType >		crgt			
CommunicationChargeCurrency subTariffControl=[any value]  SIP Parameter values  18x/200/INFO:  < messageType >		tariffCurrer	ncy		
subTariffControl=[any value]  SIP Parameter values  18x/200/INFO:  < messageType >					
SIP Parameter values  18x/200/INFO:  < messageType >					
< messageType >			subTariffControl=[a	ny value]	
<pre>&lt; crgt&gt;</pre>	SIP Parameter values	18x/200/INFO:			
<pre>&lt; crgt&gt;</pre>					
<pre>&lt; chargingTariff&gt;</pre>			>		
< tariffCurrency>					
<ul><li>currentTariffCurrency&gt;</li><li>communicationChargeSequenceCurrency&gt;</li></ul>					
< communicationChargeSequenceCurrency>					
< subTariffControl>[any value] </th <th></th> <th></th> <th>&lt; subTariffCor</th> <th>ntrol&gt;[any value] <!--</th--><th></th></th>			< subTariffCor	ntrol>[any value] </th <th></th>	
Comments Magazine flavor		ICUD		MOOF	Ma
Message flows ISUP MGCF Mg IAM → INVITE	wessage nows				_
IAM → INVITE		IAW	7	7	INVITE
0.405.4		0.405.4			
CASE A					100 0 : 5 ( 1)
APM(crgt) ← 183 Session Progress(crgt)				<b>~</b>	183 Session Progress(crgt)
APM(crga) →		APM(crga)	→		
0.000		0.40= 0			
CASE B		0.10= =	_	_	
ACM(crgt) ← 180 Ringing(crgt)				+	180 Ringing(crgt)
APM(crga) →		APM(crga)	<b>→</b>		
		CASE C			
ACM ← 180 Ringing				<del>(</del>	183 Session Progress(crgt)
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt)		APM(crga)	→		
ACM ← 180 Ringing					
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt)					
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt) APM(crga) →					
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt) APM(crga) →					
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt) APM(crga) →  CASE D ACM ← 180 Ringing ← 180 Ringing ← 180 Ringing		ACM			
ACM		ACM		<b>←</b>	200 OK INVITE
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt) APM(crga) →  CASE D ACM ← 180 Ringing ← 180 Ringing ← 180 Ringing		ACM		<b>←</b>	200 OK INVITE
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt)  CASE D ACM ← 180 Ringing  CASE D ACM ← 180 Ringing ← 200 OK INVITE → ACK		ACM ANM		<b>←</b>	200 OK INVITE
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt)  APM(crga) →  CASE D ACM ← 180 Ringing ← 180 Ringing ← 200 OK INVITE		ACM ANM	<b>←</b>	<b>←</b> →	200 OK INVITE ACK
ACM ← 180 Ringing CPG(crgt) ← 183 Session Progress(crgt)  CASE D ACM ← 180 Ringing  CASE D ACM ← 180 Ringing ← 200 OK INVITE → ACK		ACM ANM APM(crgt)	÷	<b>←</b> →	200 OK INVITE ACK INFO(crgt)

TP number	TP_221_006	Reference	4.6.1/[6]
TSS reference	ISUP-SIP/Basic call/Chargi		1 1101 17 [0]
Selection criteria	PICS 6.2.1/13	··· <i>ਤਾ</i>	
Test Purpose name		ntTariffCurrency/ tariffContro	olIndicators' into ISUP APP crgt
l and an parameter	currentTariffCurrency/ tarif		c
Test Purpose			Ringing or INFO request containing
	a XML SCI SIP message bo	odv an APM or ACM messa	ge is sent and an ISUP APP
	parameter is present.		<b>3</b>
		Currency' - 'tariffControlIndio	cators' element is mapped into the
			urrency' - 'tariffControlIndicators'
	parameter.		•
ISUP Parameter values	APP		
	crgt		
	tariffCurrency		
	currentTariffCurr	ency	
	tariffControllr		
	non-cyclic	cTariff = 1	
SIP Parameter values	18x/200/INFO:		
	< messageType >		
	< crgt>		
	< chargingTariff>	_	
	< tariffCurrency		
	< currentTa	nncurrency> ontrolIndicators>1 </th <th></th>	
Comments	< tarino	ontrollidicators>1 </th <th></th>	
Message flows	ISUP	MGCF	Mg
Message nows	IAM →	₩OO! →	INVITE
	II (IVI	-	III VIII L
	CASE A		
	APM(crgt) ←	<b>←</b>	183 Session Progress(crgt)
	APM(crga) →		red edecient regress(org.)
	7 i W(ciga)		
	CASE B		
	ACM(crgt) ←	<b>←</b>	180 Ringing(crgt)
	APM(crga) →		100 Kinging(cigt)
	Al W(ciga)		
	CASE C		
	ACM ←	<b>←</b>	180 Ringing
	CPG(crgt)	È	183 Session Progress(crgt)
	APM(crga) →	~	163 Session Progress(Crgt)
	APIW(Ciga)		
	CASE D		
	ACM ←	<b>←</b>	180 Ringing
	ANM +		200 OK INVITE
	MINIM	<b>→</b>	ACK
		7	AUN
	ADM(orgt)	+	INIEO(orat)
	APM(crgt)		INFO(crgt) 200 OK INFO
		<b>=</b>	
	APM(crga) →	Apply post test rout	

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 'currentTari	ffCurrency/callAtte	mptChargeCurrence	
Test Purpose				Ringing or INFO request containing
			APM or ACM messa	ge is sent and an ISUP APP
	parameter is pre			
			y - callAttemptCnar jing ASE 'currentTari	geCurrency' element is mapped into
		rgeCurrency' paran		incurrency -
ISUP Parameter values	APP	rgcourrency param	iotor.	
	crgt			
	tariffCurr	ency		
		ntTariffCurrency		
	Ca	allAttemptChargeCu		
		currencyFactorSo		
		currencyFacto		
SIP Parameter values	18x/200/INFO:	currencyScale	e=[any vaiue]	
oir raidifieter values	10X/ZUU/INFU:			
	< messageTyp	e >		
	< crgt>	,		
		ingTariff>		
	< ta	riffCurrency>		
	<	currentTariffCurre		
		< callAttemptCh		
			actor>[any value] .</th <th></th>	
Comments		< currencySo	cale>[any value] </th <th>•</th>	•
	ISLIP		MGCF	Ma
Message flows	ISUP	<b>-</b>	MGCF	Mg
	ISUP	<b>→</b>	MGCF →	Mg INVITE
		<b>→</b>		
	IAM CASE A	<b>→</b>		INVITE
	IAM	_	<b>→</b>	
	CASE A APM(crgt)	<b>←</b>	<b>→</b>	INVITE
	IAM  CASE A  APM(crgt)  APM(crga)	<b>←</b>	<b>→</b>	INVITE
	IAM  CASE A  APM(crgt)  APM(crga)	<b>←</b>	<b>→</b>	INVITE
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b>	<b>→</b>	INVITE
	IAM  CASE A  APM(crgt)  APM(crga)	<b>←</b> →	<b>→</b>	INVITE  183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b> →	<b>→</b>	INVITE  183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	<b>←</b> →	<b>→</b>	INVITE  183 Session Progress(crgt)
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	<b>←</b> <b>→</b>	<b>→ ←</b>	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> →	<b>→ ←</b>	INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	<b>←</b> → <b>←</b> ←	<b>→ ←</b>	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> →	<b>→ ←</b>	INVITE  183 Session Progress(crgt)  180 Ringing(crgt)
	CASE B ACM(crgt) APM(crgt) CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	<b>←</b> → <b>←</b> ←	<b>→ ←</b>	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> ←	<b>→ ←</b>	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> ← →	÷	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	<b>←</b> → <b>←</b> ← → <b>←</b>	÷ + +	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)	<b>←</b> → <b>←</b> ← →	÷	INVITE  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	<b>←</b> → <b>←</b> ← → <b>←</b>	÷ + + +	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	<b>←</b> → <b>←</b> ← → <b>←</b>	÷ + + +	INVITE  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 ANM	<b>←→ ← ← ←</b>	+ + + + +	183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK

TP number	TP_221_008	Reference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca			ا <del>م</del> .ن. ۱/ ون]
Selection criteria	PICS 6.2.1/13	an, onarging/		
Test Purpose name		ML 'currentTariffCurrency/cal	SatunC	hargeCurrency' into ISUP APP crgt
rest ruipose name		ommunicationChargeCurrency		
Test Purpose	Ensure that on red	ceipt of a 183 Session Progre	ss. 180	Ringing or INFO request containing
		essage body an APM or ACM		
	parameter is pres			ge 10 com and an 10 cm / m :
			pCharge	eCurrency' element is mapped into
	the ISUP APP end	capsulated Charging ASE 'cu	rentTari	iffCurrency' -
		Currency' parameter.		,
ISUP Parameter values	APP	7 1		
	crgt			
	tariffCurrer	ncv		
		TariffCurrency		
		SetupChargeCurrency		
		currencyFactorScale		
		currencyFactor=[any valu	el	
		currencyScale=[any value		
SIP Parameter values	18x/200/INFO:	carrette, country (arry country)		
	< messageType	>		
	< crgt>			
	< chargin	αTariff>		
		fCurrency>		
		chargingTariff>		
		< currentTariffCurrency>		
		< callSetupChargeCurre	ncv>	
		< currencyFactor>[ai		1-/
		< currencyScale>[an		
Comments		v danienoj dodnes (din	y varao <sub>1</sub>	···
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>		
	/ ii ivi(orga)	-		
	CASE B			
	CASE B			400 Discription (cont.)
	ACM(crgt)	<del>(</del>	<b>←</b>	180 Ringing(crgt)
		<b>←</b> →	<b>+</b>	180 Ringing(crgt)
	ACM(crgt)	<b>←</b> →	+	180 Ringing(crgt)
	ACM(crgt) APM(crga)	<b>←</b> →	<b>←</b>	180 Ringing(crgt)
	ACM(crgt)	<del>←</del> →	<b>←</b>	180 Ringing(crgt)
	ACM(crgt) APM(crga)	<b>←</b> →	<b>+</b>	180 Ringing(crgt)  180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM	<b>→</b>	÷	180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	<b>→</b> ←		
	ACM(crgt) APM(crga)  CASE C ACM	<b>→</b> ← ←		180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	<b>→</b> ← ←		180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	<b>→</b> ← ←		180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	<b>→ ← ← →</b>	<b>←</b>	180 Ringing 183 Session Progress(crgt)
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	<b>→ ← ← →</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt) 180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	<b>→ ← ← →</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	<b>→ ← ← →</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt) 180 Ringing
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	← ← ←	÷ ÷ ÷	180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	+ ← ← ←	+ +++	180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK INFO(crgt)
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	+ + + + + + + +	÷ +++	180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt) 200 OK INFO
	ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	+ ← ← ←	÷ +++	180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt) 200 OK INFO

TP number	TP_221_009	Reference		4.6.1/[6]		
TSS reference	ISUP-SIP/Basic call/C			, , [6]		
Selection criteria	PICS 6.2.1/13	a.gg,				
Test Purpose name		'nextTariffCurrency / con	nmunicatio	onChargeSequenceCurrency/		
	currencyFactorScale'	into ISUP APP crgt 'next peCurrency/ currencyFa	tTariffCuri	rency /		
Test Purpose				Ringing or INFO request containing		
-				ge is sent and an ISUP APP		
	parameter is present.					
		vitchCurrency' - 'nextTari				
				actorScale' element is mapped into		
				Currency' - 'nextTariffCurrency' -		
IOUD D		geCurrency' - 'currencyFa	actorScal	e parameter.		
ISUP Parameter values	APP					
	crgt					
	tariffCurrency tariffSwitch	Curronov				
		riffCurrency				
		nmunicationChargeCurre	ancv			
		currencyFactorScale	ысу			
	·	currencyFactor=[any	valuel			
		currencyScale=[any				
SIP Parameter values	18x/200/INFO:	, , ,	•			
	, managaraTura					
	< messageType < crgt>	>				
	< chargingTa	riff\				
	< tariffCur					
	< tariffSwitchCurrency>					
		nextTariffCurrency>				
		< communicationCharg	eSegueno	ceCurrency>		
		< currencyFactorSc		•		
		< currencyFacto	r>[any va	lue] </th		
		< currencyScale	>[any val	ue] </th		
Comments Message flows	ISUP	MGCF		Mg		
Wessage nows	IAM	• • • • • • • • • • • • • • • • • • •	<b>→</b>	INVITE		
	IAIVI	7	7	INVIIC		
	ICVSE V					
1	CASE A	4	4	183 Session Progress(crat)		
	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)		<b>←</b>	183 Session Progress(crgt)		
	APM(crgt) APM(crga)		<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) APM(crga)	<b>→ ← →</b>	<b>←</b>	180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>→ ← →</b>	÷	180 Ringing(crgt)  180 Ringing		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	← ← ←	<b>←</b>	180 Ringing(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM	<b>→ ← →</b>	÷	180 Ringing(crgt)  180 Ringing		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	← ← ←	÷	180 Ringing(crgt)  180 Ringing		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	← ← ←	÷	180 Ringing(crgt)  180 Ringing		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	← ← ← ← ← ← +	<b>+</b>	180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	← ← ← ←	+ + +	180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	← ← ← ← ← ← +	+ + +	180 Ringing (crgt)  180 Ringing (183 Session Progress(crgt))  180 Ringing (180 Ring		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	← ← ← ←	+ + +	180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM ANM	← ← ← ←	+ + +	180 Ringing (crgt)  180 Ringing  183 Session Progress(crgt)  180 Ringing  200 OK INVITE  ACK		
	APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	← ← ← ← ← ←	+ + + +	180 Ringing (crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE		

TP number	TP_221_010	Re	ference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic of		10101100		+.o. i/ [o]
Selection criteria	PICS 6.2.1/13	zan/Orlanging/			
Test Purpose name		(ML 'nextTariffCu	rrency / commi	nicati	onChargeSequenceCurrency/
	tariffDuration' into	ISUP APP crgt '	nextTariffCurre	ncy / C	CommunicationChargeCurrency/
Test Purpose	a XML SCI SIP m parameter is pres The XML SCI 'tar 'communicationC ISUP APP encap	nessage body an sent. iffSwitchCurrency hargeSequenceC	APM or ACM m  ' - 'nextTariffCu  Currency' - 'tariff  ASE 'tariffSwite	irrenc Durati chCur	ion' element is mapped into the rency' - 'nextTariffCurrency' -
ISUP Parameter values	APP				
		ncy witchCurrency xtTariffCurrency Communication0 tariffDuration		′	
SIP Parameter values	18x/200/INFO:				
Comments		ngTariff> ffCurrency> tariffSwitchCurre < nextTariffCurr	rency> cationChargeSe	equenc	ceCurrency>
	ICUD		МОСТ		NA
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>		<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 test	← → routi	INFO(crgt) 200 OK INFO ne

TP number	TP_221_011	Ref	erence	4.6.1/ [6]
TSS reference	ISUP-SIP/Basic			110.11 [0]
Selection criteria	PICS 6.2.1/13	oan, orial girlg,		
Test Purpose name	Mapping of SCI > subTariffControl subTariffContro	into ISUP APP crg I'	t 'nextTariffCurrenc	tionChargeSequenceCurrency/ by / CommunicationChargeCurrency/
Test Purpose	a XML SCI SIP n parameter is pres The XML SCI 'tan 'communicationC ISUP APP encap	nessage body an A sent. riffSwitchCurrency' chargeSequenceCu sulated Charging A	PM or ACM messa - 'nextTariffCurrend irrency' - 'subTariff0	Control' element is mapped into the rrency' - 'nextTariffCurrency' -
ISUP Parameter values	ne.	ency witchCurrency xtTariffCurrency CommunicationCl subTariffContr	nargeCurrency ol	
SIP Parameter values		ngTariff> ffCurrency> tariffSwitchCurren < nextTariffCurre	ncy> itionChargeSequer	nceCurrency>
Comments				
Message flows	ISUP	_	MGCF	Mg
	CASE A APM(crgt) APM(crga)	→ ← →	<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>	<b>+</b>	180 Ringing 183 Session Progress(crgt)
	CASE D ACM ANM	<b>←</b> <b>←</b>	<b>←</b> <b>←</b> →	3 3
	APM(crgt) APM(crga)	<b>←</b> → A <sub>l</sub>	← → oply post test rout	INFO(crgt) 200 OK INFO tine

TP number	TP_221_012	Refe	rence	4.6.1/[6]		
TSS reference	ISUP-SIP/Basic c		101100	+.0. I/ [0]		
Selection criteria	PICS 6.2.1/13	an/Onarging/				
Test Purpose name		ML 'nevtTariffCurr	ancy / tariffControllr	ndicators' into ISUP APP crgt		
l'est i dipose name		cy / tariffControlln		idicators into 1501. At 1. crgt		
Test Purpose				Ringing or INFO request containing		
rest i dipose				ge is sent and an ISUP APP		
	parameter is pres		FINI OF ACIVI HIESSA	ge is selli aliu ali 150F AFF		
			'novtTariffCurrence	y' - 'tariffControlIndicators' element		
				SE 'tariffSwitchCurrency' -		
			dicators' parameter.			
ISUP Parameter values	APP	y - tariiiControllin	ilcators parameter.			
150P Parameter values						
	crgt					
	tariffCurre					
		vitchCurrency				
		dTariffCurrency				
		tariffControlIndicat				
		non-cyclicTarif	<u> </u>			
SIP Parameter values	18x/200/INFO:					
	< messageType	>				
	< crgt>					
	< chargin					
		fCurrency>				
	< tariffSwitchCurrency>					
		< nextTariffCurre	ncy>			
		< tariffControl	Indicators>			
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>		3 ( 3 /		
	/ II III(Olga)	-				
	CASE B					
		_	_	100 Dinging (argt)		
	ACM(crgt)	<del>(</del>	<b>←</b>	180 Ringing(crgt)		
	APM(crga)	<b>→</b>				
	CASE C					
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	UU.	<b>+</b>	<b>+</b>	180 Ringing 183 Session Progress(crgt)		
	ACM					
	ACM CPG(crgt)	<b>←</b>				
	ACM CPG(crgt)	<b>←</b>				
	ACM CPG(crgt) APM(crga)	<b>←</b>				
	ACM CPG(crgt) APM(crga)  CASE D	<b>←</b> →	+	183 Session Progress(crgt)		
	ACM CPG(crgt) APM(crga)  CASE D ACM	<b>←</b> →	<b>←</b>	183 Session Progress(crgt)  180 Ringing		
	ACM CPG(crgt) APM(crga)  CASE D	<b>←</b> →	<b>←</b> <b>←</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE		
	ACM CPG(crgt) APM(crga)  CASE D ACM	<b>←</b> →	<b>←</b>	183 Session Progress(crgt)  180 Ringing		
	ACM CPG(crgt) APM(crga)  CASE D ACM ANM	<b>← ← ←</b>	<b>← ← →</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK		
	ACM CPG(crgt) APM(crga)  CASE D ACM ANM  APM(crgt)	<b>← ← ←</b>	<b>← ← → ←</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt)		
	ACM CPG(crgt) APM(crga)  CASE D ACM ANM	<b>← → ← ← →</b>	<b>← ← →</b>	183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK  INFO(crgt) 200 OK INFO		

TP number	TP_221_013	Į.	Reference		4.6.1/[6]	
TSS reference	ISUP-SIP/Basic c				1.0.1/ [0]	
Selection criteria	PICS 6.2.1/13	C G				
Test Purpose name		ML 'nextTariff0	Currency / callA	ttemptC	hargeCurrency' into ISUP APP crgt	
	'nextTariffCurrenc				in gerament, mileter in a rigi	
Test Purpose					Ringing or INFO request containing	
	a XML SCI SIP m	essage body a	n APM or ACM	1 messag	ge is sent and an ISUP APP	
	parameter is pres					
					y' - 'callAttemptChargeCurrency'	
					narging ASE 'tariffSwitchCurrency' -	
		:y' - 'callAttemp	tChargeCurrer	ncy' - 'cur	rencyFactorScale' parameter.	
ISUP Parameter values	APP .					
	crgt					
	tariffCurrer					
		vitchCurrency tTariffCurrency	,			
		callAttemptCh				
		currencyFa				
			yFactor=[ <i>any</i> ν	/alue1		
			yScale=[ <i>any va</i>			
SIP Parameter values	18x/200/INFO:		, <u>L</u> ,			
	< messageType	>				
	< crgt>					
	< chargin					
	< tariffCurrency>					
	< tariffSwitchCurrency>					
	< nextTariffCurrency>					
	< callAttemptChargeCurrency> < currencyFactor>[any value] </th					
		< curr	encyScale>[ <i>an</i>	y vaiuej<	<i>\( \ldots \)</i>	
Comments Message flows	ISUP		MGCF		Ma	
Message flows	ISUP	<b>→</b>	MGCF	<b>→</b>	Mg INVITE	
	ISUP	<b>→</b>	MGCF	<b>→</b>	Mg INVITE	
	IAM	<b>→</b>	MGCF	<b>→</b>	<u> </u>	
	IAM CASE A	_	MGCF	<b>→</b>	INVITE	
	CASE A APM(crgt)	<b>→</b> ←	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)	
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>←</b>	MGCF		INVITE	
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	<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)	
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)	<b>←</b> →	MGCF		INVITE  183 Session Progress(crgt)	
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	+ + + +	MGCF	<b>+</b>	183 Session Progress(crgt)  180 Ringing(crgt)	
	IAM  CASE A  APM(crgt)  APM(crga)  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 A 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 A 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		10.0.0.0.0		11.0.17 [0]	
Selection criteria	PICS 6.2.1/13	, e g g.				
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 Progres	ss, 180 F	Ringing or INFO request containing	
	a XML SCI SIP m	essage body a	n APM or ACM	messag	ge is sent and an ISUP APP	
	parameter is pres					
					y' - 'callSetupChargeCurrency'	
					narging ASE 'tariffSwitchCurrency' -	
		:y' - 'callSetupC	ChargeCurrency	/' - 'curre	encyFactorScale' parameter.	
ISUP Parameter values	APP					
	crgt	201				
	tariffCurrer	itchCurrency				
		tTariffCurrency	,			
		callSetupChar				
		currencyFa				
			yFactor=[ <i>any v</i>	alue1		
			yScale=[ <i>any va</i>			
SIP Parameter values	18x/200/INFO:		, ,			
	< messageType	>				
	< crgt>					
	< chargin					
	< tariffCurrency>					
	< tariffSwitchCurrency>					
	< nextTariffCurrency>					
	< callSetupChargeCurrency>					
_		< cuii	encyScale>[ <i>an</i> ]	v vaiuei<	S/	
Comments				,		
Comments Message flows	ISUP		MGCF			
Comments Message flows	ISUP		MGCF		Mg	
	ISUP IAM	<b>→</b>	MGCF	<b>→</b>		
	IAM		MGCF		Mg	
	IAM CASE A	<b>→</b>	MGCF		Mg INVITE	
	CASE A APM(crgt)		MGCF	<b>→</b>	Mg	
	IAM CASE A	<b>→</b>	MGCF	<b>→</b>	Mg INVITE	
	CASE A APM(crgt)	<b>→</b>	MGCF	<b>→</b>	Mg INVITE	
	CASE A APM(crgt)	<b>→</b>	MGCF	<b>→</b>	Mg INVITE	
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	<b>→</b>	MGCF	<b>→</b>	Mg INVITE  183 Session Progress(crgt)	
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	<b>→</b>	MGCF	<b>→</b>	Mg INVITE	
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B	→ ← →	MGCF	<b>→</b>	Mg INVITE  183 Session Progress(crgt)	
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	→ ← →	MGCF	<b>→</b>	Mg INVITE  183 Session Progress(crgt)	
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	→ ← →	MGCF	<b>→</b>	Mg INVITE  183 Session Progress(crgt)	
	IAM  CASE A  APM(crgt)  APM(crga)  CASE B  ACM(crgt)  APM(crga)	→ ← →	MGCF	<b>→</b>	Mg INVITE  183 Session Progress(crgt)	
	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	→ ← →	MGCF	→ ←	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	→ ← → ←	MGCF	→ ←	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)	→ ← → ←	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)	→ ← → ←	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)	→ ← → ← →	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	→ ← → ← +	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 A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D ACM	→ ← → ← +	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	<b>+</b> + ++ +++	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	<b>+</b> + ++ +++	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  Apply post te	<b>+</b> + ++ +++	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	4.6.1/[6]
TSS reference	ISUP-SIP/Basic call/Charg		11.01.17 [0]
Selection criteria	PICS 6.2.1/13	g,	
Test Purpose name		SwitchCurrency/ tariffSwit	tchoverTime' into ISUP APP crgt
Took i an pood i anno	tariffSwitchCurrency / tarif		ionovorume into reer 7th reign
Test Purpose			80 Ringing or INFO request containing
-	a XML SCI SIP message b	oody an APM or ACM mes	ssage is sent and an ISUP APP
	parameter is present.	•	<b>G</b>
			erTime' element is mapped into the
	ISUP APP encapsulated C	charging ASE 'tariffSwitch	Currency' - 'tariffSwitchoverTime'
	parameter.		
ISUP Parameter values	APP		
	crgt		
	tariffCurrency		
	tariffSwitchCurre		
	tariffSwitcho	verTime	
SIP Parameter values	18x/200/INFO:		
	_		
	< messageType >		
	< crgt>		
	< chargingTariff>	16	
	< tariffCurrenc	y> chCurrency>	
		SwitchOverTime>	
Comments	< tanns	switchOver rime>	
Message flows	ISUP	MGCF	Mg
wessage nows	IAM =		→ INVITE
	IAW		- INVIIL
	CASE A		
	APM(crgt)		← 183 Session Progress(crgt)
	APM(crga)		103 Session Flogress(crgt)
	Ai M(ciga)		
	CASE B		
	ACM(crgt)		← 180 Ringing(crgt)
	APM(crga)		180 Kinging(crgt)
	Ar M(ciga)		
	CASE C		
	ACM	<u>-</u>	← 180 Ringing
	CPG(crgt)		<ul><li>180 Ringing</li><li>183 Session Progress(crgt)</li></ul>
		_	Too Session Progress(crgt)
	APM(crga)		
	CASE D		
	ACM €	<u>.</u>	← 180 Ringing
			3 3
	ANM €		
			→ ACK
	ADM(augh)	<u>.</u>	L INICO(anat)
	APM(crgt)		← INFO(crgt)
	1 DM// 1		
	APM(crga)	Apply post test ro	→ 200 OK INFO

TP number	TP_221_016	R	eference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic c	all/Charging/			
Selection criteria	PICS 6.2.1/13				
Test Purpose name	Mapping of two S				. 0 . 1
	tariffCurrency/ Co				ctorScale' into two ISUP APP crgt
Test Purpose					Ringing or INFO request containing
rest i dipose					ge is sent and an ISUP APP
	parameter is pres				,
	The <b>two</b> XML SC	I 'currentTariffC			ionChargeSequenceCurrency' -
					o ISUP APP encapsulated
	charging ASE cu			unication	ChargeCurrency' -
ISUP Parameter values	APP	cale parameter	S		
loor rarameter values	crgt				
	tariffCu	ırrency			
	cur	rentTariffCurrer			
		Communication		ency	
		currencyFa			
			yFactor=[ <i>any</i> yScale=[ <i>any</i> v		
		Communication			
		currencyFa			
			yFactor=[any	value]	
		currency	yScale=[ <i>any</i> ν	ralue]	
SIP Parameter values	18x/200/INFO:				
	< messageType	>			
	< crgt>				
	< chargin	ıgTariff>			
		fCurrency>			
		currentTariffCu		_	
		< communicati			urrency>
			/FactorScale> encyFactor>[a		-1
			encyScale>[ <i>al</i>		
		< communicati			
		< currency	/FactorScale>	•	
			encyFactor>[a		
Comments		< curre	encyScale>[ <i>ai</i>	ny value]<	</th
Comments Message flows	ISUP		MGCF		Mg
Wessage nows	IAM	<b>→</b>	WIGGI	<b>→</b>	INVITE
	17 (17)	-		_	
	CASE A				
	APM(crgt)	<b>←</b>		<b>←</b>	183 Session Progress(crgt)
	APM(crga)	<b>→</b>			
	CASE B			-	400 D: : ( .)
	ACM(crgt)	<b>←</b> →		<b>←</b>	180 Ringing(crgt)
	APM(crga)	7			
	CASE C				
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	CPG(crgt)	<b>←</b>		<del>-</del>	183 Session Progress(crgt)
	APM(crga)	<b>→</b>			G ( G)
	CASE D				
	ACM	<del>(</del>		<del>(</del>	180 Ringing
	ANM	<b>←</b>		<del>(</del>	200 OK INVITE
				<b>→</b>	ACK
	APM(crgt)	<b>←</b>		<b>←</b>	INFO(crgt)
	APM(crga)	<b>→</b>		<b>→</b>	200 OK INFO
	, i morga,	-	Apply post t	=	
L					

TP number	TP_221_017	F	Reference		4.6.1/[6]		
TSS reference	ISUP-SIP/Basic of				,, [o]		
Selection criteria	PICS 6.2.1/13	gg.					
Test Purpose name		SCI XML 'nextTa	ariffCurrency / com	mun	icationChargeSequenceCurrency/		
			APP crgt 'nextTarif				
			/ currencyFactorS				
Test Purpose	Ensure that on re	eceipt of a 183 S	Session Progress,	180 F	Ringing or INFO request containing		
	a XML SCI SIP m	nessage body a	n APM or ACM me	essaç	ge is sent and an ISUP APP		
	parameter is pres						
			urrency' - 'nextTari				
					actorScale' elements are mapped		
					riffSwitchCurrency' -		
ICUD Devementes values		cy - Communic	ationChargeCurre	ncy	- 'currencyFactorScale' parameters.		
ISUP Parameter values	APP						
	crgt tariffCurre	nev					
		witchCurrency					
		xtTariffCurrency	1				
	1102		nChargeCurrency				
		currencyFa					
			yFactor=[ <i>any value</i>	el			
			yScale=[ <i>any value</i>				
			nChargeCurrency	-			
		currencyFa	ctorScale				
			yFactor=[any value				
		currenc	yScale=[ <i>any value</i>	?]			
SIP Parameter values	18x/200/INFO:						
	< messageType >						
	< crgt> < chargingTariff>						
	< cnarging   ariff> < tariffCurrency>						
	< tariffCurrency> < tariffSwitchCurrency>						
	< nextTariffCurrency>						
	< communicationChargeSequenceCurrency>						
			encyFactorScale>	•	·		
			currencyFactor>[ar				
		< (	currencyScale>[an	v val	uel </th		
		< commu	nicationChargeSec				
		< commu	nicationChargeSec encyFactorScale>	quend	ceCurrency>		
		< commune < curre	nicationChargeSec encyFactorScale> currencyFactor>[ <i>ar</i>	quend ny va	ceCurrency>		
Massaga flows	ISHP	< commune < curre	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va	ceCurrency>  ue] <br ue] </th		
Message flows	ISUP	< commui < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ <i>ar</i>	quend ny va y val	ceCurrency>  ue] ue]</  Mg</th		
Message flows	ISUP	< commune < curre	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va	ceCurrency>  ue] <br ue] </th		
Message flows	IAM	< commui < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val	ceCurrency>  ue] ue]</  Mg</th		
Message flows	IAM  CASE A	< communi	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val	ceCurrency>  ue] ue]</ Mg INVITE</th		
Message flows	CASE A APM(crgt)	< communi	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val	ceCurrency>  //ue] ue]</  Mg</th		
Message flows	IAM  CASE A	< communi	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val	ceCurrency>  ue] ue]</ Mg INVITE</th		
Message flows	CASE A APM(crgt) APM(crga)	< communi	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val	ceCurrency>  ue] ue]</ Mg INVITE</th		
Message flows	CASE A APM(crgt) APM(crga) CASE B	< commun < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	< communi	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val →	ceCurrency>  ue] ue]</ Mg INVITE</th		
Message flows	CASE A APM(crgt) APM(crga) CASE B	< commun < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val →	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt)	< commun < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val →	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)	< commun < curro < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val →	Iue] Iue] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM	< commun < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y vali →	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C	< commun < curro < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val +	Iue] Iue] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	< commun < curror < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val +	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt)	< commun < curror < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val +	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)	< commun < curror < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y val +	ceCurrency>  ue]  ue] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)</th		
Message flows	CASE A APM(crgt) APM(crga)  CASE B ACM(crgt) APM(crga)  CASE C ACM CPG(crgt) APM(crga)  CASE D	< commun < curro < c	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y vali → ←	Iue] Iue] </  Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)</th		
Message flows	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM	< commun < curro < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny va y vali → ←	Ive] Ive] </  Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)</th		
Message flows	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM	< commun < curro < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny val y val	Ive] Ive] </  Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)</th		
Message flows	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM	< commun < curro < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend ny val y val	Ive] Ive] </  Mg INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)</th		
Message flows	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM ANM	< commun < curro < c < c < c < c < c < c < c < c < c <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend y val y val y val + + + + + + + + + + + + + + + + + + +	Ive] Ive] </  Mg  INVITE  183 Session Progress(crgt)  180 Ringing(crgt)  180 Ringing 183 Session Progress(crgt)  180 Ringing 200 OK INVITE ACK</th		
Message flows	IAM  CASE A  APM(crgt) APM(crga)  CASE B  ACM(crgt) APM(crga)  CASE C  ACM CPG(crgt) APM(crga)  CASE D  ACM ANM	< commun < curro < c < c < c < c < c < c < c < c < c <	nicationChargeSec encyFactorScale> currencyFactor>[ar currencyScale>[an	quend	Ive] Ive] </  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</th		

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	PICS 6.2.1/13						
Test Purpose name	Mapping of SCI XML 'messageType / crgt / originationIdentification' into ISUP APP crgt 'originationIdentification'							
Test Purpose	a XML SCI SIP me parameter is prese	essage body a ent. ' - 'originationI	n APM or ACN dentification' e	/I messag lement is	Ringing or INFO request containing ge is sent and an ISUP APP mapped into the ISUP APP tion' parameter.			
ISUP Parameter values	APP crgt originationI network reference	dentification	<u> </u>		·			
SIP Parameter values	< netw	> ionIdentificatio vorkIdentificatio enceID>						
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> →		+	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> <b>←</b> <b>→</b>	180 Ringing 200 OK INVITE ACK			
	APM(crgt) APM(crga)	<b>←</b> →	Apply post to	← → est routi	INFO(crgt) 200 OK INFO ne			

TP number	TP_221_019		Reference		4.6.1/[6]
TSS reference	ISUP-SIP/Basic ca	II/Charging/			
Selection criteria	PICS 6.2.1/13				
Test Purpose name	Mapping of SCI XM	IL 'messageT	Type / crgt / curre	ncy' in	to ISUP APP crgt 'currency'
Test Purpose	a XML SCI SIP me parameter is prese	ssage body a nt. - 'currency' e	an APM or ACM relement is mappe	nessa	Ringing or INFO request containing ge is sent and an ISUP APP 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	<b>→</b>	<b>Mg</b> 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>		<del>+</del>	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 tes	← → t routi	INFO(crgt) 200 OK INFO ine

TP number	TP_221_020	Reference	e	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 XMI	_ 'aocrg / chargingCo	ntrollndicators	s' into ISUP APP aocrgt			
_	'chargingControlln			· ·			
Test Purpose				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' - 'chargingControlIndicators' -					
				napped into the ISUP APP			
		ing ASE 'aocrg' - 'ch		ndicators' -			
		)fActuallyAppliedTari	ff' parameter.				
ISUP Parameter values	APM						
	APP						
	aocrg	Dantually diagtors					
		Controllndicators	Ily Applied Torif	4			
SIP Parameter values	INFO:	diateChangeOfActua	ilyApplied i arii	I			
SIF Farailleter values	IINFO.						
	< messageType	>					
	< aocrg>						
	· ·	ControlIndicators>					
		diateChangeOfActua	llvAppliedTarif	f>			
Comments		G	7 11				
Message flows	ISUP	MG	CF	Mg			
	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			
		Apply <sub>I</sub>	oost test rout	ine			

TP number	TP_221_021		rence	4.6.1/[6]			
TSS reference	ISUP-SIP/Basic call	/Charging/					
Selection criteria	PICS 6.2.1/13						
Test Purpose name			Charge / addOnCha	argeCurrency' into ISUP APP			
	aocrgt 'addOnChar						
Test Purpose		Ensure that on receipt of an INFO request containing a XML SCI SIP message body in the					
				an ISUP APP parameter is present.			
				Currency' element is mapped into			
		psulated Chargin	ig ASE 'aocrg' - 'add	dOnChargeCurrency' parameter.			
ISUP Parameter values	APM						
	APP						
	aocrg	_					
		nargeCurrency					
	currer	ncyFactorScale					
		rrencyFactor=[ar					
		irrencyScale=[an	y value]				
SIP Parameter values	INFO:						
	_						
	< messageType	>					
	< aocrg>						
	< addOnCh						
	< addOnChargeCurrency>						
		< currencyFactor>[any value] < currencyScale [any value] </th					
Comments	< cu	rrencyScale>[arr	y valuej </th <th></th>				
Message flows	ISUP		MGCF	Mg			
message news	IAM	<b>→</b>	oo.	INVITE			
	ACM	É	É	180 Ringing			
	ANM	÷	<b>+</b>	200 OK INVITE			
	ALVIVI	•	<b>→</b>	ACK			
			7	ACK			
	APM(aocrg)	<b>←</b>	<b>←</b>	INFO(aocrg)			
	APM(crga)	<b>→</b>	<b>~</b>	200 OK INFO			
	Ai Wi(Ciga)	=	ply post test routing				
	1	Ар	pry post test routil	IIC			

TP number	TP_221_022	Reference	4.6.1/[6]				
TSS reference	ISUP-SIP/Basic call/Charg	ing/					
Selection criteria	PICS 6.2.1/13						
Test Purpose name	Mapping of SCI XML 'aocro	g / originationIdentification' in	to ISUP APP aocrgt				
	'originationIdentification'		· ·				
Test Purpose		Ensure that on receipt of an INFO request containing a XML SCI SIP message body in the					
			an ISUP APP parameter is present.				
			is mapped into the ISUP APP				
		E 'aocrg' - 'originationIdentifi	cation' parameter.				
ISUP Parameter values	APM						
	APP						
	aocrg						
	originationIdenti						
	networkIden	ification					
SIP Parameter values	referenceID						
SIP Parameter values	INFO:						
	< messageType >						
	< aocrg>						
	< originationIdentif	ication>					
	< networkIdent						
	< referenceID>						
Comments							
Message flows	ISUP	MGCF	Mg				
	IAM -	· <b>→</b>	INVITE				
	ACM ←	· <b>←</b>	180 Ringing				
	ANM ←	· <b>←</b>	200 OK INVITE				
		<b>→</b>	ACK				
	APM(aocrg)	<b>+</b>	INFO(aocrg)				
	APM(crga)	<b>→</b>	200 OK INFO				
		Apply post test routi	ne				

TP number	TP_221_023	Refer	ence	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	IL 'aocrg / currenc	y' into ISUP APP a	aocrgt 'currency'			
Test Purpose	confirmed dialogue The XML SCI 'aocre	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	→ ← ←	MGCF	Mg INVITE 180 Ringing 200 OK INVITE ACK			
	APM(aocrg) APM(crga)	<b>←</b> → Apr	← → oly post test routi	INFO(aocrg) 200 OK INFO ine			

# 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	S/COL/			
Selection criteria	NOT PIC	S 6.3.4/1 AND PICS	6.3.2/2		
Test Purpose name	The SUT	does not invoke the	COLP service		
Test Purpose			IVITE request ant the SU		
					quest indicator" field of the
	Optional	forward call indicator	s parameter of the IAM to	'not	requested'. A received
		d number is not inter			
ISUP Parameter values			icators = 'not requested'		
		N: Connected number	•		
SIP Parameter values	200 OK:	P-Asserted-Identity	not present		
Comments					
Message flows		Mg	MGCF		ISUP
	INVITE	<del>)</del>		<b>→</b>	IAM
	100 Tryin	ıg 🗲	-		
	CASE A				
	180 Ring	ing 🗲	•	<b>←</b>	ACM
	200 OK (			<b>←</b>	ANM
	ACK	<del>)</del>	•		
	CASE B				
	200 OK (	INVITE) ←	•	<b>←</b>	CON
	ACK	<del>)</del>	•		
			Apply post test routi	ne	

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	S 6.3.2/2	
Test Purpose name	The SUT invokes the C	OLP service presentation a	allowed
Test Purpose	Ensure that on receipt of IAM is sent and the Conforward call indicators in presentation allowed is Connected number Nature of Address Indice Inational (significan 200 OK INVITE PADD SN.' International number 200 OK INVITE PADD OK	of an INVITE request ant the nected Line Identity Requiperameter of the IAM to 'recontended and 'recontended and 'recontended and 'recontended and 'recontended an	e SUT invokes the COLP service, an est indicator" field of the Optional quested'. A received connected number address RI. Prefix number with '+' in the formation of the construct an E.164 number in '+ CC NDC SN'.
ISUP Parameter values		not present or if present the call indicators = 'requested' number present	value is not equal to it.
SIP Parameter values	INVITE: P-Asserted-I 200 OK: P-Asserted-I	dentity present	
Comments			
Message flows	Mg INVITE 100 Trying  CASE A 180 Ringing 200 OK (INVITE) ACK  CASE B 200 OK (INVITE) ACK	MGCF   ←  ←  Apply post test i	ISUP  → IAM  ← ACM ← ANM  ← CON

TP number	TP_302_003	Referer	nce	7.4.2.1.2				
TSS reference	PSTN-SS/COL/							
Selection criteria	PICS 6.3.4/1 AND	PICS 6.3.2/2						
Test Purpose name	II.	he COLP service pre	esentation restricted					
Test Purpose				okes the COLP service, an				
•				tor" field of the Optional				
				A received connected number				
	presentation restric	presentation restricted is interworked.						
	Connected number	Connected number						
	Nature of Address							
		ificant) number'						
		E P-Asserted-Identit						
				onnected number address				
			per in the URI. Prefix	number with '+' in the format				
	'+ CC NDC SN							
	• 'international r							
		E P-Asserted-Identit						
	Map complete	Connected number	address signals to c	onstruct an E.164 number in				
			the Format '+ CC ND	JC SN.				
	•	ion restriction indicat	or:					
	<ul> <li>'presentation r Privacy: id.</li> </ul>	estricted						
ISUP Parameter values		ard call indicators =	'roquested'					
SOF Farailleter values		cted number presen						
SIP Parameter values		ted-Identity present	· ·					
on rarameter values		ted-Identity present						
	Privacy:							
Comments	1							
Message flows	Mg		MGCF	ISUP				
	INVITE	<b>→</b>	<b>→</b>	IAM				
	100 Trying	<b>←</b>						
	, ,							
	CASE A							
	180 Ringing ← ← ACM 200 OK (INVITE) ← ANM							
	ACK →							
	CASE B							
	200 OK (INVITE)	<b>←</b>	<b>+</b>	CON				
	ACK	<b>→</b>						
		vlaqA	post test routine					
1	_ 1	<del></del>	<u></u>					

TP number	TP_302_004	Reference	7.4.2.2
TSS reference	PSTN-SS/COL/		
Selection criteria	PICS 6.3.2/2		
Test Purpose name	COL request is set to not requ	uested	
Test Purpose	Ensure that on receipt of an I/	AM and the Connected Line I	dentity Request indicator in the
	Optional Forward Call Indicate	ors parameter is set to 'not re	quested, no P-Asserted-Identity
		ccessful final response is pre	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> II	NVITE
		<b>←</b> 1	00 Trying
	CASE A		
	ACM ←	<b>←</b> 1	80 Ringing
	ANM ←	<b>←</b> 2	00 OK (INVITE)
		<b>→</b> A	CK
	CASE B		
	CON ←	<b>←</b> 2	00 OK (INVITE)
			.CK
		Apply post test routine	

TP number	TP_302	_004A	Reference	7.4.2.2
TSS reference	PSTN-S	S/COL/		
Selection criteria	PICS 6.3	3.2/2		
Test Purpose name	COL rec	uest is set to not requ	ested P-Asserted-Identity	y is not mapped
Test Purpose	Ensure t	that on receipt of an IA	M and the Connected Li	ne Identity Request indicator in the
				ot requested, a P-Asserted-Identity
	received	I in a provisional or suc	ccessful final response is	present. No connected number is
	sent in a	n ANM or CON.		
ISUP Parameter values				
SIP Parameter values	200 OK:	P-Asserted-Identity	present	
Comments				
Message flows		ISUP	MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	CASE A	_		
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)
			→	ACK
	CASE B	}		
	CON	<b>←</b>	<b>←</b>	200 OK (INVITE)
			<b>→</b>	ACK
			Apply post test rout	ine

TP number	TP_302_004B	R	eference	7.4.2.2		
TSS reference	PSTN-SS/COL/					
Selection criteria	PICS 6.3.2/2					
Test Purpose name	COL request is set	to requested	P-Asserted-Identity is	not received a network provided		
	Connected numbe	r is sent				
Test Purpose	Optional Forward of received in a province onnected number  The Nature of Numbering plate  Address presents Screening independents	Numbering plan indicator = spare				
ISUP Parameter values	ANM/CON:	no. Hot procen	•			
	Connected num	nber				
SIP Parameter values						
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	CASE A ACM ANM	<del>(</del>	<b>←</b> <b>←</b>	180 Ringing 200 OK (INVITE) ACK		
	CASE B CON	<b>←</b>	← → Apply post test rout	200 OK (INVITE) ACK ine		

TP number	TP 302 005	Reference	7.4.2.2			
TSS reference	PSTN-SS/COL/					
Selection criteria	PICS 6.3.2/2					
Test Purpose name	COL request is set to requested Terminating identity received in a 180 response					
Test Purpose	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the					
rest i dipose	Optional Forward Call Indicators parameter is set to 'requested', the P-Asserted-Identity					
	received in a provisional respo		quotica, ine i 7 toocitea identity			
	Coding of Connected number					
	Number incomplete indicat					
	Numbering Plan Indicator e		(Recommendation E.164)			
	Nature of Address Indicato		,			
	If CC encoded in the UI	RI is equal to the CC of th	ne country where MGCF is located			
		JP node is located in the s	same country then set to			
	"national (significan	t) number"				
	else set to	1				
	"international number"					
	Address Presentation Restricted Indicator derived from the Privacy header according					
	the mapping as described in table 6.2.2-1.					
ISUP Parameter values	IAM: Optional Forward Call Indicators					
	Connected Line Identity Request = requested					
	ANM: Connected number					
OID Deservation and the second	Presentation restriction Privacy_VA					
SIP Parameter values	180:					
Comments	P-Asserted-Identity					
Message flows	ISUP	MGCF	Mg			
wessage nows	IAM →	WGCF →	INVITE			
	IAIVI	<del>-</del>				
	ACM ←	<del>-</del>	100 Trying 180 Ringing			
	ANM +	<del>-</del>	200 OK (INVITE)			
	AINIVI	<b>→</b>	ACK			
	- /					
	Apply post test routine					

TP number	TP_302_006	Re	eference	7.4.2.2	
TSS reference	PSTN-SS/COL/				
Selection criteria	PICS 6.3.2/2				
Test Purpose name	COL request is set to requested Terminating identity received in a 200 OK response				
Test Purpose				ne Identity Request indicator in the	
				quested', the P-Asserted-Identity	
	received in a 200				
	Coding of Conne				
			equal to 'Complete'	/D / / 5 /04	
			al to 15DN/Telephony	(Recommendation E.164)'	
	Nature of Add		a agual to the CC of th	as assumt where MCCF is leasted	
				ne country where MGCF is located same country then set to	
		al (significant) n		Same country their set to	
	else set to	, •			
		ational number"			
	Address Presentation Restricted Indicator derived from the Privacy header according				
	the mapping as described in table 6.2.2-1.				
ISUP Parameter values	IAM: Optional Forward Call Indicators				
	Connected Line Identity Request = requested				
	ANM: Connected number				
	Presentation restriction Privacy_VA				
SIP Parameter values	200:				
Commonto	P-Asserted-Identity				
Comments	ISUP MGCF Ma				
Message flows	IAM	<b>→</b>	WIGCF	Mg INVITE	
	IAW	7	<del>-</del>		
	ACM	<b>←</b>	<del>-</del>	100 Trying 180 Ringing	
	ANM	<del>-</del>	<del>-</del>	200 OK (INVITE)	
	VI AIAI	~	<b>→</b>	ACK	
	Apply post test r	outine		NOIC .	
	Typis bost rest i	Outille			

TP number	TP_302_007	Reference	7.4.2.2				
TSS reference	PSTN-SS/COL/		·				
Selection criteria	PICS 6.3.2/2	PICS 6.3.2/2					
Test Purpose name	COL request is set	COL request is set to requested Terminating identity received in a 200 OK response					
Test Purpose	Ensure that on rec Optional Forward ( was received the F Coding of Connec Number incom Numbering Pla Nature of Addr If CC enco AND the ne "national else set to "interna Address Prese	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)'  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"					
ISUP Parameter values	IAM: Optional Fo Connec CON: Connected	the mapping as described in table 6.2.2-1.  IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested  CON: Connected number					
SIP Parameter values		ation restriction Privacy_VA	1				
	200:						
oir raidilletei values	P Asserted	Identity					
	P-Asserted	-Identity					
Comments		,	Ma				
	P-Asserted  ISUP IAM  CON	-Identity  MGCF  →  ←	Mg → INVITE ← 100 Trying ← 200 OK (INVITE) → 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	Id	Presentation restricted
Privacy_VA_05	Privacy header not present	Presentation allowed

### 6.2.3 Malicious call identification

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

TP number	TP_303_002	Refe	rence		7.4.4	
TSS reference	PSTN-SS/MCID/					
Selection criteria	NOT PICS 6.3.2/3					
Test Purpose name	MCID request after AC	M				
Test Purpose	Ensure that a MCID red	quest after ar	ACM received in	n an ISI	JP IDR is c	liscarded without
	disrupt the call setup p	disrupt the call setup procedure. The sending of an IRS is optional.				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	<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	
		Ар	ply post test ro	utine		

# 6.2.4 Subaddressing (SUB)

TP number	TP_304_001	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	isub parameter in the To header is mapped into Called party Subaddress				
Test Purpose	Ensure that on receipt of an init				
	present in the To header is mapped into the Called party Subaddress covered in an				
	Access Transport parameter in				
	the values 'nsap-ia5', 'nsap-bcc	d' or 'nsap' are relevant for ma	pping.		
	Encoding of the Subaddress in	the IAM:			
	Type of Subaddress = 'NSAP'				
	Subaddress digits derived from	the uric of the isub paramete	r.		
ISUP Parameter values	IAM: Access Transport				
	Called party subaddress				
	Type of Subaddress = NSAP				
	Subaddress digit	s derived from the uric of the	isub parameter		
SIP Parameter values	INVITE: To:				
	isub				
	uric Subaddress digits				
	isub-encoding: Not present				
	nsap-ia5				
	nsap-bcd				
		nsap			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
		Apply post test routine			

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

TP number	TP_304_003	Reference	7.4.5.2
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 6.3.2/4		
Test Purpose name	isub parameter in the P-Asserted-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'		
		rived from the uric of the isub pa	arameter.
ISUP Parameter values	Type of	oort ty subaddress f Subaddress = NSAP dress digits derived from the uri	c of the isub parameter
SIP Parameter values	INVITE: P-Asserted-Identity:		
Comments			
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test rou	ISUP → IAM  utine

TP number	TP 304 004	Reference	7.4.5.2
TSS reference	PSTN-SS/SUB/		
Selection criteria	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-Identity:		
Comments			
Message flows	Mg INVITE 100 Trying	MGCF  → ← Apply post test r	ISUP → IAM  routine

TP number	TP_304_005	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Connected party Subaddress 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 sul				
	Type of Subaddress = NSAP				
	Subaddress digits				
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric digits derived from the Connected party Subaddress digits				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	180 Ringing ← ← ACM				
	200 OK (INVITE) ←				
	ACK →				
		Apply post test routine			

TP number	TP_304_006	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.2/4			
Test Purpose name	Connected party Subaddress in the ANM is not mapped			
Test Purpose	Ensure that on receipt of an ANM message containing a Connected party Subaddress parameter in an Access Transport parameter, a 200 OK (INVITE) is sent and the Connected party subaddress is not mapped if the Type of subaddress is not equal 'NSAP'.			
ISUP Parameter values	ANM: Access Transport Connected party subaddress Type of Subaddress other then NSAP			
SIP Parameter values				
Comments				
Message flows		÷ ÷	ISUP IAM ACM ANM	
		Apply post test routine		

TP number	TP_304_007	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/	·		
Selection criteria	PICS 6.3.2/4			
Test Purpose name	Mapping of Called Party subaddress in the IAM into isub parameter in the To header in the INVITE			
Test Purpose	Transport parame into an isub param	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	isub uric digits derived from the Called party Subaddress digits isub-encoding=nsap-ia5			
Comments				
Message flows	ISUP	MGCF	Mg → INVITE	
		-	← 100 Trying	
		Apply post test r	outine	

TP number	TP_304_008	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/		
Selection criteria	PICS 6.3.2/4			
Test Purpose name	No mapping of Called Party subaddress 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	3			
Comments				
Message flows	ISUP IAM →	MGCF  → ← Apply post test routine	Mg INVITE 100 Trying	

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

TP number	TP_304_010	Reference	7.4.5.3
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 6.3.2/4		
Test Purpose name	No mapping of Calling Party subaddress in the IAM		
Test Purpose	Ensure that on receipt of an IA	M containing a Calling party s	ubaddress in the Access
	Transport parameter, an initial	INVITE is sent. The Calling pa	arty subaddress is not
	mapped into an isub paramete	r present in the P-Asserted-Ide	entity header in the INVITE if
	the Type of number of the sub-	address is not equal to 'NSAP'	'.
ISUP Parameter values	IAM: Access Transport		
	Calling party subaddress		
	Type of Subaddress not NSAP		
	Subaddress digits		
SIP Parameter values			
Comments			
Message flows	ISUP MGCF Mg		
	IAM ->	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	Apply post test routine		

TP number	TP_304_011	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB	/		
Selection criteria	PICS 6.3.2/4			
Test Purpose name	Mapping of isul ANM	Mapping of isub parameter in the 200 OK into the Connected party subaddress in the ANM		
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK (INVITE), an ANM is sent and the received Subaddress is mapped in the Connected party subaddress present in the Access Transport parameter in the ANM. If the isubencoding parameter is present, the values 'nsap-ia5', 'nsap-bcd' or 'nsap' are relevant for mapping.			
ISUP Parameter values	ANM: Access Transport  Connected party subaddress  Type of Subaddress = NSAP  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 IAM ACM ANM	MGCF  ← ← Apply post test re	Mg  → INVITE  ← 180 Ringing  ← 200 OK (INVITE)  → ACK  Dutine	

TP number	TP_304_012	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.2/4			
Test Purpose name	No mapping of isub parameter in the 200 OK into the Connected party subaddress in the ANM			
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK (INVITE), an ANM is sent and the received Subaddress is not mapped in the Connected party subaddress present in the Access Transport parameter in the ANM If the isub-encoding parameter is present and the value is not equal to 'nsap-ia5', 'nsap-bcd' or 'nsap'.			
ISUP Parameter values				
SIP Parameter values	200 OK: P-Asserted-Identity:			
	isub-encoding: Not nsap-ia5, nsap-bcd, nsap			
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			

## 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/		Table 7.4.0.2.2.2
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of 181 hi-targeted-to-uri into early ACM Redirection number and Redirecting Reason		
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The called party status is set to 'no indication'. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number:</li> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string and sent in the Address signal of the Redirection number.</li> <li>If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged and sent in the Address signal of the Redirection number.</li> <li>The Redirecting reason in the Call Diversion Information parameter is set as indicated in 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	routine

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

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

TP number	TP_305_001A	Reference	7.4.6.2.2		
			Table 7.4.6.2.2.2		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Mapping of 181 into ea	arly ACM Generic notification	n is set to 'Call is diverting'		
Test Purpose	Ensure that on receipt	of 181 (Call Is Being Forwa	rded) History-Info header, an ACM is		
	sent. The Generic noti	fication indicator is set to 'Ca	all is diverting'.		
ISUP Parameter values	ACM: Called party sta	atus = no indication			
	Generic Notific	ation			
	call is diver	ting			
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	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 6.3.2/5				
Test Purpose name	Mapping of 181 Privacy head	er into early ACM Notificat	ion subscription options		
Test Purpose			containing a Privacy header, an		
	ACM is sent. The called party				
	The Notification subscription of	ptions in the Call Diversion	n Information parameter is set		
	according the Privacy header	in the message body as ir	ndicated in table 6.2.5-2.		
ISUP Parameter values	<b>ACM:</b> Called party status = n	o indication			
	Call Diversion Information				
	Notification subscription options = SUBS_options				
SIP Parameter values	181:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	ACM ←	<b>←</b>	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/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5	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) co	ntaining an escaped Privacy		
_	header field in the last hi-targe	ted-to-uri, an ACM is sent. 7	he called party status is set to		
	'no indication'.				
	The Notification subscription of				
	according the escaped Privacy	header in the last History e	ntry as indicated in table 6.2.5-3.		
ISUP Parameter values	<b>ACM:</b> Called party status = no	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=&lt;i">any &gt;; index=1,</sip:any>				
	<sip:any proper="" uri?privacy="&lt;i">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> II	NVITE		
	ACM ←	<b>←</b> 1	81 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	Refere	nce	7.4.6.2.2	
				Table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Mapping of 181 Pr	ivacy header into ea	rly ACM Redirect	tion number restriction	
Test Purpose				containing a Privacy header, an	
		called party status is			
	The Redirection nu	umber restriction is s	et according the	Privacy header in the message	
	body as indicated	in table 6.2.5-4.			
ISUP Parameter values	ACM: Called party	y status = no indicati	on		
	Redirection	number restriction =	PRES_restr		
SIP Parameter values	181:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	ACM	<b>←</b>	<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/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Mapping of 181 escap	ped Privacy header into early	ACM Redirection number restriction		
Test Purpose	·	·	arded), an ACM is sent. The called party		
	status is set to 'no ind		and the command Daire and the standard in the class		
			g the escaped Privacy header in the last		
	History entry as indica				
ISUP Parameter values	ACM: Called party sta	atus = no indication			
	Redirection nu	Redirection number restriction = PRES_restr			
SIP Parameter values	181:				
	History-Info:				
	<sip:any proper="" uri?reason="SIP;cause=&lt;i">any&gt;; 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 → INVITE				
	ACM	<b>←</b>	← 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/	•		
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to	o-uri into CPG Redirecting	Reason	
Test Purpose	Ensure that on receipt of 181			
	The Redirecting reason in the	e Call Diversion Information	parameter is set as indicated in	
	table 6.2.5-5.			
ISUP Parameter values	CPG: Call Diversion Informa	ation		
	Redirecting reason	n = Redirecting_Reason		
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_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 ←	+	180 Ringing	
	CPG ←	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test routine			

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

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

TP number	TP_305_006A	Referer	ice	7.4.6.2.2
				Table 7.4.6.2.2.2,
				Table 7.4.6.2.2.7
TSS reference	PSTN-SS/CDIV/			·
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 h	i-targeted-to-uri into C	PG Generic not	ification is set to 'Call is diverting'
Test Purpose				a CPG is sent. The Event indicator set to 'Call is diverting'.
ISUP Parameter values	CPG: Generic N	otification		
	call is	diverting		
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments		tolpiany propor ortis	, 11140%—111	
Message flows	ISUP	MC	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 routine			

TP number	TP_305_007	Reference	7.4.6.2.2		
			Table 7.4.6.2.2.2		
			Table 7.4.6.2.2.7		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.5/1 AND PICS 6.3.	2/5			
Test Purpose name	Mapping of 181 hi-targeted-to	o-uri escaped Reason head	der into CPG Event indicator		
Test Purpose			a CPG is sent. The Event indicator		
	is set to 'Redirecting_Reaso	n' as indicated in table 6.2	.5-6.		
ISUP Parameter values	CPG: Event = Redirecting_I	Reason			
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=&lt;b">CAUSE_value&gt;; 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		
	CPG ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

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

	CAUSE_value	Redirecting_Reason
VA_01	486	User busy
VA 02	408	No reply

TP number	TP_305_007A	Reference	7.4.6.2.2 Table 7.4.6.2.2.2
			Table 7.4.6.2.2.7
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.5/1 AND PICS 6.3.2	2/5	
Test Purpose name	Mapping of 181 hi-targeted-to	o-uri into CPG Redirection nu	umber
Test Purpose	entry following the last Histor Redirection number:  If CC is equal the countr is set to 'national (signistring.  If the country code is not	y-Info entry containing a Rea y code where the SUT is loca ficant) number', the country equal the country code whe	CPG is sent. The History-Info ason header is mapped into the ated: Nature of address indicator code is removed from the digit are the SUT is located: Nature of de digit string is used unchanged.
ISUP Parameter values	CPG: Redirection number  Derived from the last History-Info entry		
SIP Parameter values	181:	oper URI?Reason=SIP;caus	e=any value>; index=1,
	<sip:any pi<="" th=""><th>oper URI&gt;; index=1.1</th><th></th></sip:any>	oper URI>; index=1.1	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	= :	INVITE
	ACM ←	<b>←</b>	180 Ringing
	CPG ←	<b>←</b>	181 Call Is Being Forwarded
	Apply post test routine		

TP number	TP 305 008	Reference	7.4.6.2.2
			Table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/	•	•
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Privacy	header into CPG Notificati	on subscription options
Test Purpose			ded) containing a Privacy header, a
		t indicator is set to 'Progress	
	The Notification subscr	iption options in the Call Div	version Information parameter is set
	according the Privacy header in the message body as indicated in table 6.2.5-7.		
ISUP Parameter values	CPG: Call Diversion Information		
	Notification s	subscription options = <b>SUB</b> \$	S_options
SIP Parameter values	181:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
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 6.2.5-7: Mapping of Privacy value into Notification subscription options

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

TP number	TP_305_009	Reference	7.4.6.2.2	
			Table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notificati	on subscription options	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy header field in the last hi-targeted-to-uri, a CPG is sent. The Event indicator is set to 'Progress'.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-8.			
ISUP Parameter values	CPG: 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 proper="" uri?privacy="Priv-value">; index=1.1</sip:any></sip:any>			
Comments		· ·		
Message flows	ISUP	MGCF	Mg	
_	IAM →	→ IN'	/ITE	
	ACM ←	<b>←</b> 18	0 Ringing	
	CPG ← 181 Call Is Being Forwarded			
	Apply post test routine			

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

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

TP number	TP_305_010	Reference	7.4.6.2.2
			Table 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Privacy heade	r into CPG Redirection nu	ımber restriction
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header in the		
	message body, a CPG is sent.	The Event indicator is se	t to 'Progress'.
	The Redirection number restric	tion is set according the F	Privacy header in the message
	body as indicated in table 6.2.5-9.		
ISUP Parameter values	CPG: Redirection number restriction = PRES_restr		
SIP Parameter values	181:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	180 Ringing
	CPG <b>←</b>	<b>←</b>	181 Call Is Being Forwarded
	Apply post test routine		

TP number	TP_305_011	Reference	7.4.6.2.2	
			Table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 esca	ped Privacy header into CPG	Redirection number restriction	
Test Purpose	Ensure that on receip is set to 'Progress'.	Ensure that on receipt of 181 (Call Is Being Forwarded), a CPG is sent. The Event indicator is set to 'Progress'.		
			the escaped Privacy header in the last	
	·	History entry as indicated in table 6.2.5-9.		
ISUP Parameter values	CPG: Redirection number restriction = PRES_restr			
SIP Parameter values	181:	181:		
	History-Info:	History-Info:		
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any prop<="" th=""><th colspan="3"><sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any></th></sip:any>	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
	CPG ← 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_011A	Reference	7.4.6.2.2
			Table 7.4.6.2.2.7
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5 AND NOT PI	CS 6.3.5/1	
Test Purpose name	Mapping of 181 Reason he	ader into CPG Event infor	mation
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Reason header in the second last History entry, a CPG is sent. The Event indicator is set to 'Progress'.		
ISUP Parameter values	CPG: Event = Progress		
SIP Parameter values	181:		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM -	· -	INVITE
	ACM ←	•	■ 180 Ringing
	CPG ←	•	<ul> <li>181 Call Is Being Forwarded</li> </ul>
	Apply post test routine		

TP number	TP_305_012	Reference	7.4.6.2.2
			Table 7.4.6.2.2.2,
			Table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of 180 l	hi-targeted-to-uri into ACM R	edirection number and Redirecting Reason
Test Purpose	Ensure that on re	eceipt of 180 (Ringing) an AC	M is sent. The called party status is set to
			ing the last History-Info entry containing a
	Reason header i	s mapped into the Redirectin	g reason in the Call Diversion Information
	parameter is set	as indicated in table 6.2.5-10	).
ISUP Parameter values	ACM: Called party status = subscriber free		
	Call Diver	rsion Information	
	Redire	ecting reason = Redirecting_	Reason
SIP Parameter values	180:		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1,</sip:any>		
		<sip:any proper="" uri="">; index</sip:any>	<b>&lt;=1.1</b>
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
	ACM	<b>←</b>	← 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	Re	eference	7.4.6.2.2
				Table 7.4.6.2.2.2,
				Table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/	•		•
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 h	ni-targeted-to-uri	into ACM Generic noti	fication 'Call is diverted'
Test Purpose				The called party status is set to
				t History-Info entry containing a
	Reason header is	s mapped into the	e Redirection number:	The Generic notification indicator
	is set to 'Call is d	iverted'.		
ISUP Parameter values	ACM: Called party status = subscriber free			
	Generic Notification			
	call is	call is diverting		
SIP Parameter values	180:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	Apply post test routine			

TP number	TP_305_012B	Reference	7.4.6.2.2
			Table 7.4.6.2.2.2,
			Table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of 180 hi-targ	eted-to-uri into ACM Redirect	tion 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:		
	<ul> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string.</li> <li>If the country code is not equal the country code where the SUT is located: Nature of</li> </ul>		
		•	er' the digit string is used unchanged.
ISUP Parameter values	ACM: Called party status = subscriber free Redirection number Derived from the last History-Info entry		
SIP Parameter values	180:		P;cause=[any value]>; index=1,
		any proper URI>; index=1.1	,oddoc-[arry value]z, iridex=1,
Comments		<u>, p</u>	
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
	ACM	<b>←</b>	← 180 Ringing
	Apply post test routine		

TP number	TP_305_013	Reference	7.	4.6.2.2
			T:	able 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Priv	vacy header into ACM N	otification subscription	on options
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 Notification subscription options in the Call Diversion Information parameter is set			
ISUP Parameter values	according the Privacy header in the message body as indicated in table 6.2.5-11.  ACM: Called party status = subscriber free Call Diversion Information Notification subscription options = SUBS_options			
SIP Parameter values	180:  **Privacy: *Priv-value**  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1, <sip:any index="1.1&lt;/th" proper="" uri;=""></sip:any></sip:any>			
Comments				
Message flows	ISUP	MGCF		Mg
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ri	nging
	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

			Table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 escaped Privac	cy header into ACM Notific	cation 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 = sul Call Diversion Information Notification subscript		ons	
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 ACM ←		INVITE 180 Ringing <b>e</b>	

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 6.3.2/5			
Test Purpose name	Mapping of 180 Privacy heade	r into ACM Redirection nu	ımber restriction	
Test Purpose			acy header in the message body,	
	an ACM is sent. The called par			
	The Redirection number restric	ction is set according the F	Privacy header in the message	
	body as indicated in table 6.2.5	5-13.		
ISUP Parameter values	<b>ACM:</b> Called party status = su	bscriber free		
	Redirection number res	triction = PRES_restr		
SIP Parameter values	181:			
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM → INVITE			
	ACM ← 180 Ringing			
	Apply post test routine			

TP number	TP_305_016	Reference	7.4.6.2.2	
			Table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 escaped Priva	cy header into ACM Redi	rection number restriction	
Test Purpose			caped Privacy header in the last	
	hi-targeted-to-uri, an ACM is se	ent. The called party statu	us is set to 'subscriber free'.	
	The Redirection number restric	tion is set according the	escaped Privacy header in the last	
	History entry as indicated in tal	ole 6.2.5-13.		
ISUP Parameter values	<b>ACM:</b> Called party status = su	bscriber free		
	Redirection number restriction = PRES_restr			
SIP Parameter values	181:			
	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>	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	Refe	erence	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 6.3.2/5			
Test Purpose name	Mapping of 180 h	ni-targeted-to-uri in	to CPG Redirection	number and Redirecting Reason
Test Purpose	Ensure that on re	eceipt of 180 (Ringi	ng) a CPG is sent. T	he Event indicator is set to
	'ALERTING'. The	History-Info entry	concerning the dive	rted-to number is mapped into the
	Redirecting reason	on in the Call Diver	sion Information par	ameter is set as indicated in
	table 6.2.5-14.			
ISUP Parameter values	<b>CPG:</b> Event = A	LERTING		
	Call Diversion Information			
	Redire	ecting reason = Rec	directing_Reason	
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1,</sip:any>			
		<sip:any proper="" th="" u<=""><th>RI&gt;; index=1.1</th><th></th></sip:any>	RI>; index=1.1	
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded
	CPG	<b>←</b>	<b>←</b>	180 Ringing
	Apply post test 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 6.3.2/5		
Test Purpose name	Mapping of 180 hi-targe	eted-to-uri into CPG Generic	notification 'Call is diverting'
Test Purpose	Ensure that on receipt of 180 (Ringing) a CPG is sent. The History-Info entry concerning the diverted-to number is mapped into the Redirection number: The Generic notification indicator is set to 'Call is diverting'.		
ISUP Parameter values	CPG: Generic Noti call is divertii		
SIP Parameter values		any proper URI?Reason=SIP	;cause=any value>; index=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_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 6.3.2/5			
Test Purpose name	Mapping of 180 hi-targeted-to-			
Test Purpose	Ensure that on receipt of 180 (			
	the diverted-to number is mapp	ed into the Redirection nur	mber: 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 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	·	

TP number	TP_305_017C	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 6.3.2/5			
Test Purpose name	Mapping of 180 hi-targ	eted-to-uri into CPG Redirect	tion number	
ISUP Parameter values SIP Parameter values	the diverted-to number  If CC is equal the is set to 'national string.  If the country code address indicator  181:	<ul> <li>Ensure that on receipt of 180 (Ringing) a CPG is sent. 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.</li> </ul>		
Comments	•	,		
Message flows	ISUP	MGCF	Mg	
	IAM ACM CPG	→ ← ← Apply post test re	→ INVITE ← 181 Call Is Being Forwarded ← 180 Ringing	

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 6.3.2/5	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Privacy head	er into CPG Notification su	ubscription options		
Test Purpose	The Notification subscription	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a CPG is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.2.5-15.			
ISUP Parameter values		CPG: Call Diversion Information Notification subscription options = SUBS_options			
SIP Parameter values	180:  Privacy: Priv-value  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,  <sip:any proper="" uri="">; index=1.1</sip:any></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				

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 6.3.2/5					
Test Purpose name	Mapping of 180 escap	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	ISUP MGCF Mg				
	IAM	<b>→</b>	→ INVITE			
	ACM	ACM ← 181 Call Is Being Forwarded				
	CPG ← 180 Ringing					
	Apply post test routine					

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

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

TP number	TP_305_020	Reference	7.4.6.2.2	
			Table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Privacy heade	r into CPG Redirection nur	nber restriction	
Test Purpose	Ensure that on receipt of 180 (I	Ringing) containing a Priva	cy header, a CPG is sent.	
	The Redirection number restric	tion is set according the P	rivacy header in the message	
	body as indicated in table 6.2.5	i-17.		
ISUP Parameter values	CPG: Redirection number res	triction = 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	
	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 6.3.2/5				
Test Purpose name	Mapping of 180 escaped Priva	acy header into CPG Redi	rection number restriction		
Test Purpose	Ensure that on receipt of 180				
	The Redirection number restr	iction is set according the	escaped Privacy header in the last		
	History entry as indicated in ta	able 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>	INVITE		
	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 6.3.2/5			
Test Purpose name	Mapping of 200 hi-targ	geted-to-uri into ANM Redirec	tion 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			
	<ul> <li>is removed from the digit string.</li> <li>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.</li> </ul>			
ISUP Parameter values	ANM: Redirection number  Derived from the last History-Info entry			
SIP Parameter values	200: History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM ACM ANM	<b>→ ← ←</b>	→ INVITE ← 180 Ringing ← 200 OK INVITE → ACK	
	Apply post test routine			

TP number	TP_305_023	Reference	7.4.6.2.2		
			Table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Mapping of 200 Privacy heade				
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 restriction = PRES_restr				
SIP Parameter values	200:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>				
	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK INVITE		
		<b>→</b>	ACK		
	Apply post test routine				

TP number	TP_305_024	Reference	7.4.6.2.2		
			Table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Mapping of 200 escaped Priva	cy header into ANM Redi	rection number restriction		
Test Purpose	Ensure that on receipt of 200 C				
			escaped Privacy header in the last		
	History entry as indicated in tal	ble 6.2.5-18.			
ISUP Parameter values	ANM: Redirection number restriction = PRES_restr				
SIP Parameter values	200:				
	History-Info:				
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<del>-</del>	200 OK INVITE		
		<b>→</b>	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 6.3.2/5		
Test Purpose name	Mapping of 200 h	i-targeted-to-uri into CON Redirecti	ion number
Test Purpose	<ul> <li>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:</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 '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.</li> </ul>		
ISUP Parameter values	CON: Redirection	n number d from the last History-Info entry	
SIP Parameter values	200: History-Info:	<sip:any proper="" uri?reason="SIP&lt;/p"> <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>	;cause=any value>; index=1,
Comments			
Message flows	ISUP IAM ANM	<del>`</del>	Mg → INVITE ← 200 OK INVITE → ACK putine

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 6.3.2/5		
Test Purpose name	Mapping of 200 Privacy head	der into CON Redirection n	umber restriction
Test Purpose	Ensure that on receipt of 200	OK (INVITE) containing a	Privacy header, a CON is sent.
	The Redirection number rest	riction is set according the	Privacy header in the message
	body as indicated in table 6.2	2.5-18.	
ISUP Parameter values	CON: Redirection number restriction = PRES_restr		
SIP Parameter values	200:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ANM ←	<b>←</b>	200 OK INVITE
		<b>→</b>	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 6.3.2/5			
Test Purpose name	Mapping of 200 escape	ed Privacy header into CON I	Redirection number restriction	
Test Purpose		of 200 OK (INVITE), a CON i		
	The Redirection number	er restriction is set according	the escaped Privacy header in the last	
	History entry as indicat			
ISUP Parameter values	ANM: Redirection num	ber restriction = PRES_restr	•	
SIP Parameter values	200:	200:		
	History-Info:	History-Info:		
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<sip:any privacy="&lt;b" proper="" uri?="">Priv-value&gt;; 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			

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

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

TP number	TP_305_028	Reference	7.4.6.2.3
			Table 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of Redirecting numbe	r Address Signals	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The value of the second last hi-targeted-to-uri Value of Redirecting number is mapped from the Redirecting number Address Signals as indicated in table 6.2.5-19.		
ISUP Parameter values	IAM: Redirecting number  Nature of Address: NoA_value  Address Signals <any appropriate="" value=""> Redirection Information Original called number</any>		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,     <sip:value number?reason="SIP;cause=any" of="" redirecting="">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:value></sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ INV	ITE
		Apply post test routine	

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

	NoA_value Value of Redirecting number	
		second last hi-targeted-to-uri
VA_01	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 6.3.2/5		
Test Purpose name	Mapping of Redirecting number	Address presentation restricted	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	n restricted indicator: APRI_va	
SIP Parameter values	, , , ,	eason=SIP;cause=404>; index= vacy= <b>PRIV_value</b> &Reason=S	,
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ INVI	TE
		Apply post test routine	

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

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

TP number	TP_305_030	Reference	7.4.6.2.3
			Table 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of Redirection Inform	nation Redirecting indicator	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number and a Redirection Information parameter, an INVITE request is sent and a 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 Redirecting indicator of the Redirection Information as indicated in table 6.2.5-21.		
ISUP Parameter values	IAM: Redirection Information Redirecting indicate		
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 →	<b>→</b> IN	IVITE
		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 6.3.2/5			
Test Purpose name	Mapping of Redirect	tion Information Redirection cou	unter	
Test Purpose	Information paramet	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 In Redirection	nformation on counter = <b>RDCONT_value</b>		
SIP Parameter values	INVITE: History-Info: EN	NTRY_values		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
		Apply post test r	outine	

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:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1</sip:>
VA_05	5	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1,</sip:>
		<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	Refere	nce	7.4.6.2.3		
				Table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/	<u>.</u>		·		
Selection criteria	PICS 6.3.2/5					
Test Purpose name	Mapping of Redi	rection Information Ori	ginal redirection	reason		
Test Purpose	Ensure that on re	eceipt of an IAM conta	ning a Redirection	on number an Original called		
	number and a Re	edirection Information	oarameter, an IN	VITE request is sent. The Original		
	redirection reaso	n indicator value 'unk	nown' of the Red	direction information is mapped into		
	the cause param	eter value '404' of the	first hi-targeted-t	o-uri of the History-Info header in		
	the sent INVITE.		· ·	•		
ISUP Parameter values	IAM: Redirection	n Information				
	Origin	al redirection reason =	unknown			
SIP Parameter values	INVITE:					
	History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>					
		<sip:any proper="" th="" uri?<=""><th>Reason=SIP;cau</th><th>use=any&gt;; index=1.1,</th></sip:any>	Reason=SIP;cau	use=any>; index=1.1,		
	<sip:any proper="" uri="">; index=1.1.1</sip:any>					
Comments						
Message flows	ISUP	М	GCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	Apply post test routine					

Table 6.2.5-23: Void

TP number	TP_305_033		Reference	7.4.6.2.3			
				Table 7.4.6.2.3.1			
TSS reference	PSTN-SS/CDIV/						
Selection criteria	PICS 6.3.2/5						
Test Purpose name	Mapping of Redir	ection Informa	ation Redirecting reas	on			
Test Purpose	number and a Re Redirecting reason the cause parameters	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 second last hi-targeted-to uri of the History-Info header in the sent INVITE as indicated in table 6.2.5-24.					
ISUP Parameter values		n Information	- REAS value				
SIP Parameter values	Redirecting reason = REAS_value  INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>						
Comments							
Message flows	ISUP MGCF Mg						
	IAM	<b>→</b>	-	→ INVITE			
	Apply post test routine						

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

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

TP number	TP_305_034		Reference		7.4.6.2.3	
					Table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 6.3.2/5					
Test Purpose name	Mapping of Calle	d party number	er Address Signals	3		
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		rty number	I - A			
		of Address: N	NoA_value			
		ss Signals				
SIP Parameter values	INVITE:					
	History-Info:		er URI?Reason=			
			er URI?Reason=			
	<pre><sip:called number?reason="SIP;cause=any" party="">; index=1.1.1</sip:called></pre>					
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	TP_305_035					
					Table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/						
Selection criteria	PICS 6.3.2/5						
Test Purpose name	Mapping of Origi	nal called num	oer Address Sigi	nals			
Test Purpose	Redirection Infor present. The value	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	Nature	alled number e of Address: <b>N</b> ss Signals < <b>Di</b>					
SIP Parameter values		Ŭ <b>U</b>					
Comments							
Message flows	ISUP	ISUP MGCF Mg					
	IAM → INVITE						
		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		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 6.3.2/5							
Test Purpose name	Mapping of Origi	nal called num	ber Address prese	ntation 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	Addre	•	n restricted indicate	——————————————————————————————————————				
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 routine							

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

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

TP number	TP_305_037	Reference		7.4.6.3.2		
				Table 7.4.6.3.2.2		
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 6.3.2/5					
Test Purpose name	Latest History-Inf	o header field entry conta	ining a Reason h	eader is mapped into		
	Redirecting numb	per Nature of address ind	cator			
Test Purpose	sent and a Redire	ecting number an Original	called number a	story-Info header, an IAM is nd a Redirection information		
	mapped from the	sent. The <b>Nature of addr</b> e latest History-Info heade son header as indicated i	r field entry in the	the Redirecting number is format +'CC+NDC+SN'		
ISUP Parameter values	IAM: Redirectin					
SIP Parameter values	INVITE:					
	History-Info: <sip:any proper="" uri="">; index=1, <sip:<b>Second last entry URI?Reason=SIP;cause=any&gt;; index=1.1, <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:<b></sip:any>					
Comments						
Message flows	Mg MGCF ISUP					
	INVITE → IAM					
	100 Trying	<b>←</b>				
	Apply post test routine					

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

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

TP number	TP_305_038	Reference	9	7.4.6.3.2		
				Table 7.4.6.3.2.2		
TSS reference	PSTN-SS/CDIV/			•		
Selection criteria	PICS 6.3.2/5					
Test Purpose name		o header field entry cont per Address signal	aining a Reason h	neader is mapped into		
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: Redirectin	ig number ss signal <i>derived from th</i>	e second last Hist	t-entry		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
Comments						
Message flows	Mg INVITE 100 Trying	<b>→</b> ←	MGCF  →  ost test routine	ISUP IAM		
		Apply p	osi iesi iouiille			

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		'+' is removed from the userpart digit string used in the Redirecting number Address signal

TP number	TP_305_039	Reference	7.4.6.3.2		
			Table 7.4.6.3.2.2		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Latest History-Info header field entry containing a Reason header escaped Privacy header is mapped into Redirecting number Address presentation restricted indicator				
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Redirecting number is mapped from the escaped Privacy header of the latest History-Info header field entry containing a Reason header as indicated in table 6.2.5-30.				
ISUP Parameter values	IAM: Redirecting number				
	Address presentation	n restricted indicator = APRI_	value		
SIP Parameter values	INVITE:				
	History-Info:				
	<pre><sip:any appropriate="" uri="">; 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></pre>				
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/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Privacy header is mapped into Redirecting number Address presentation restricted				
	indicator				
Test Purpose	Ensure that on receipt of an IN				
	sent and a Redirecting numbe				
	parameter is present. The Add				
	number is mapped from the Pr	ivacy header of the received	INVITE request as indicated		
	in table 6.2.5-30.				
ISUP Parameter values	IAM: Redirecting number				
		on restricted indicator = APRI_	_value		
SIP Parameter values	INVITE:				
	Privacy: <b>PRIV_value</b>				
	History-Info: <sip:any app<="" th=""><th>ropriate URI&gt;; index=1,</th><th></th></sip:any>	ropriate URI>; index=1,			
	<sip:any pro<="" th=""><th>per URI?Reason=SIP;cause=</th><th>any&gt;; index=1.1,</th></sip:any>	per URI?Reason=SIP;cause=	any>; index=1.1,		
	<sip:any pro<="" th=""><th>per URI&gt;; index=1.1.1</th><th></th></sip:any>	per URI>; index=1.1.1			
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				

Table 6.2.5-30: 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		
			Table 7.4.6.3.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Escaped Privacy header is ma	pped into Redirection informa	tion 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 latest History-Info header field entry containing a Reason header in the received INVITE request as indicated in table 6.2.5-31.				
ISUP Parameter values	IAM: Redirection information Redirecting indicate				
SIP Parameter values	INVITE:  History-Info: <sip:any appropriate="" uri="">; 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	Mg INVITE → 100 Trying ←	<del>=</del>	ISUP IAM		
	Apply post test routine				

TP number	TP 305 042	Reference	7.4.6.3.2	
	11 _000_012	1101010100	Table 7.4.6.3.2.3	
TCC reference	DOTAL CO/CDIV//		Table 7.4.0.3.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	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 6.2.5-31.			
ISUP Parameter values	IAM: Redirection information Redirecting indicate			
CID Devementes values		n = NDIND_value		
SIP Parameter values	INVITE:			
	Privacy: <b>PRIV_value</b>			
	History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any></pre>			
	<pre><sip:any proper="" uri="">; index=1.1.1</sip:any></pre>			
Comments		,		
Message flows	Mg MGCF ISUP			
	INVITE → → IAM			
			17 1141	
100 Trying ←				
	Apply post test routine			

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

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

TP 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 6.3.2/5				
Test Purpose name	cause value is mapped into R	cause value 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 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 Second last hi-targeted-to-uri	REAS_value
VA_01	302	Deflection immediate response
VA_02	486	User Busy
VA_03	408	No reply
VA_04	503	Mobile subscriber not reachable
VA_05	404	unknown

TP number	TP_305_044	Refer	ence	7.4.6.3.2
				Table 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Hi-index is mappe	ed into Redirection i	nformation Redire	ection 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 Redire	on information ection counter = <b>RD</b> (	CONT_value	
SIP Parameter values	INVITE: History-Info:	ENTRY_values		
Comments				
Message flows	INVITE 100 Trying	<b>→</b> ← App	MGCF  ly post test rout	ISUP → IAM ine

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

	ENTRY_values	RDCONT_value
VA_01	<sip:represents called="" number="" original="" the="">; index=1,</sip:represents>	1
	<sip: called="" number="" party="" represents="" the="">; index=1.1</sip:>	
VA_02	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	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	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	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	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	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	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	5
	<sip: any="" proper="" uri;cause="404">; index=1.1,</sip:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:>	
	<sip: any="" proper="" uri;cause="404">; index=1.1.1.1,</sip:>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1.1</sip:>	

TP number	TP_305_045	Reference	7.4.6.3.2		
			Table 7.4.6.3.2.4		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	est Purpose name First History-Info header field entry is mapped into Original called number Nature of				
	address indicator				
Test Purpose			a History-Info header, an IAM is		
			per and a Redirection information		
			or of the Original called number is		
	mapped from the first Histo	ory-Info header field entry in	the format +'CC+NDC+SN' as		
	indicated in table 6.2.5-34.				
ISUP Parameter values	IAM: Original called num	ber			
	Numbering Plan	Indicator = ISDN (Telephor	ny) numbering plan		
		(Recommendat	ion E.164)		
		ss indicator = <b>NoA_value</b>			
SIP Parameter values	INVITE:				
	History-Info: <sip:first entry="" uri="">; index=1,</sip:first>				
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any></pre>				
	<sip:any< th=""><th>proper URI&gt;; index=1.1.1</th><th></th></sip:any<>	proper URI>; index=1.1.1			
Comments	Comments				
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	100 Trying	<b>←</b>			
		Apply post test routi	ne		

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 6.3.2/5			
Test Purpose name	First History-Info header field	entry is mapped into Original of	alled Address signal	
Test Purpose  Ensure that on receipt of an INVITE request containing a History-Info header sent and a Redirecting number an Original called number and a Redirection parameter is present. The Address signal of the Original called number is the first History-Info header field entry in the format +'CC+NDC+SN' as inditable 6.2.5-35.			d a Redirection information illed number is mapped from	
ISUP Parameter values	IAM: Original called  Numbering Plan Indicator = ISDN (Telephony) numbering plan  (Recommendation E.164)  Address signal derived from the first Hist-entry			
SIP Parameter values				
Comments				
Message flows	Mg INVITE = 100 Trying	·	ISUP IAM	
	Apply post test routine			

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

	First entry URI	NoA_value
	where MGCF is located AND the next ISUP	'+CC' is removed from the userpart digit string used in the Original
	node is located in the same country	called number Address signal
VA_02		'+' is removed from the userpart digit string used in the Original called number Address signal

TP number	TP_305_047	Reference	7.4.6.3.2
			Table 7.4.6.3.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
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 6.2.5-36.		
ISUP Parameter values	IAM: Original called		
	Address presentation restricted indicator = <b>APRI_value</b>		
SIP Parameter values	INVITE:		
	<sip:any pro<="" th=""><th>ropriate URI?Privacy=<b>PRIV_</b>v per URI?Reason=SIP;cause= per URI&gt;; index=1.1.1</th><th></th></sip:any>	ropriate URI?Privacy= <b>PRIV_</b> v per URI?Reason=SIP;cause= per URI>; index=1.1.1	
Comments			
Message flows	Mg	MGCF	ISUP
_	INVITE →	<b>→</b>	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 6.3.2/5		
Test Purpose name	Privacy header is mapped into Original called number Address presentation restricted indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Original called number is mapped from the Privacy header of the received INVITE request as indicated in table 6.2.5-36.		
ISUP Parameter values	IAM: Original called		
	Address presentati	on restricted indicator = APRI_	value
SIP Parameter values	INVITE:  Privacy: PRIV value		
	History-Info: <sip:any ap<="" th=""><th>propriate URI&gt;; index=1, oper URI?Reason=SIP;cause= oper URI&gt;; index=1.1.1</th><th>any&gt;; index=1.1,</th></sip:any>	propriate URI>; index=1, oper URI?Reason=SIP;cause= oper URI>; index=1.1.1	any>; index=1.1,
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	<b>→</b>	IAM
	100 Trying ←	-	
		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/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of ACM Redire	ction number into 181 (Be	ing forwarded) History-Info header	
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 Redirection number is mapped into the hi-targeted-to-uri in a History-Info header containing one hi-entry in the sent 181 as indicated in table 6.2.5-37.			
ISUP Parameter values	Generic notification Call diversion info Redirection numb	tatue = 'no indication' on = call is diverting ormation er ress indicator = <b>NOA_value</b>	9	
SIP Parameter values	181: History-Info: <sip:ur< th=""><th></th><th>Reason=SIP;cause=any&gt;; index=1, istory&gt;; index=1.1</th></sip:ur<>		Reason=SIP;cause=any>; index=1, istory>; index=1.1	
Comments				
Message flows	Mg INVITE 181 Being forwarded	MGCF  →  ←  Apply post test ro	ISUP  → IAM ← ACM  outine	

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

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

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 6.3.2/	5	
Test Purpose name	Mapping of ACM Redirecting	reason into 181 (Being forwar	ded) History-Info header
	Reason header		
Test Purpose	Ensure that on receipt of an AC	CM a Redirection number and	the Call diversion parameter
	is present as an indication a ca		
	Call diversion information Redi		
	hi-targeted-to-uri in a History-Ir	nfo header in the sent 181 as i	ndicated in table 6.2.5-39.
ISUP Parameter values	<b>ACM:</b> Backward call indicator		
	Called party status =	= no indication	
	Generic notification = call is diverting		
	Redirection number		
	Call diversion information		
	Redirecting reason = <b>REAS_value</b>		
SIP Parameter values	181:		
	History-Info:		
		n.invalid?Reason=SIP;cause=	
	<sip:derived from="" redir<="" th=""><th>ection number?Privacy=histor</th><th>y&gt;; index=1.1</th></sip:derived>	ection number?Privacy=histor	y>; index=1.1
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	181 Being forwarded ←	+	ACM
	-	Apply post test routine	

Table 6.2.5-39: 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

TP number	TP 305 052	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 6.3.2/5		
Test Purpose name	Mapping of ACM Notifi	ication subscription option	s no 181 (Being forwarded) is sent
Test Purpose	Ensure that on receipt	of an ACM a Redirection num	nber and the Call diversion parameter
			if the Call diversion information
	Notification subscription	n options is set to <b>presentati</b>	on not allowed no 181 (Being
	forwarded) is sent.		
ISUP Parameter values	ACM:		
	Generic notifica	tion = call is diverting	
	Redirection number		
	Call diversion information		
	Notification subscription options = presentation not allowed		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
			← ACM
	Apply post test routine		

TP number	TP_305_053	Reference	7.4.6.3.3
			Table 7.4.6.3.3.1,
			Table 7.4.6.3.3.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of ACM Notification	subscription options into 181	(Being forwarded) escaped
	Privacy header		-
Test Purpose	Ensure that on receipt of an AC	CM a Redirection number and	the Call diversion parameter
	is present as an indication a ca		
	escaped Privacy header of the	last hi-targeted-to-uri in a His	tory-Info header in the sent
	181 is set to 'history' as indicat	ed in table 6.2.5-40.	
ISUP Parameter values	ACM:		
	Generic notification = ca	all is diverting	
	Redirection number		
	Call diversion information		
	Notification subscription options = NSO_value		
SIP Parameter values	181:		
	History-Info:		
	<sip:unknown@unknown.ir< th=""><th>nvalid?Reason=SIP;cause=an</th><th>y&gt;; index=1,</th></sip:unknown@unknown.ir<>	nvalid?Reason=SIP;cause=an	y>; index=1,
	<sip:any proper="" th="" uri?privac<=""><th>cy=<b>history</b>&gt;;index=1.1</th><th></th></sip:any>	cy= <b>history</b> >;index=1.1	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	181 Being forwarded ←	<b>←</b>	ACM
	-	Apply post test routine	

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

CAUSE	NSO_value	
VA_01	Unknown	
VA_02	presentation allowed with redirection number	
VA_03	presentation allowed without redirection number	

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/	1	,	
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of CPG Redire	ction number into 181 (Bei	ng forwarded) History-Info header	
Test Purpose	number and the Call dive occurred, a 181 (Being f	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 last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in		
	table 6.2.5-37.	a riiotory iiiio rioador iii tiio	Som for as maisaisa in	
ISUP Parameter values  SIP Parameter values	CPG: Event = Progress Generic notification Call diversion information Redirection numb Nature of add Address signate 181: History-Info: <sip:ul< th=""><th>on = call is diverting primation per lress indicator = NOA_value al Digits</th><th>Reason=SIP;cause=any&gt;; index=1,</th></sip:ul<>	on = call is diverting primation per lress indicator = NOA_value al Digits	Reason=SIP;cause=any>; index=1,	
Comments	νοιρ.Σ.	101_11101_011.1 11Vaoy=111	5.61y2, 1146X=1.1	
Message flows	Mg	MGCF	ISUP	
	INVITE 180 Ringing 181 Being forwarded	→ ← ← Apply post test ro	→ IAM ← ACM ← CPG	

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 6.3.2	2/5		
Test Purpose name	Mapping of CPG Redirecting	reason into 181 (Being forwar	rded) History-Info header	
	Reason header			
Test Purpose	Ensure that on receipt of a CI	PG the Event indicator is set to	'Progress' a Redirection	
		n parameter is present as an inc		
		rded) is sent. The Call diversior		
		ason header of the second las		
		t 181 as indicated in table 6.2.5	5-39.	
ISUP Parameter values	<b>CPG:</b> Event = Progress			
	Generic notification =	call is diverting		
	Redirection number			
	Call diversion information			
	Redirecting reason = <b>REAS_value</b>			
SIP Parameter values	181:			
	History-Info:			
		wn.invalid?Reason=SIP;cause		
	<sip: derived="" from="" number?privacy="history" redirection="">;index=1.1</sip:>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<b>→</b>	IAM	
	180 Ringing	<b>+</b>	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/			
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of CPG Notification	subscription options no 181	(Being forwarded) is sent	
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, if the Call diversion in	nformation Notification subscri	ption options is set to	
	presentation not allowed no	181 (Being forwarded) is sent.		
ISUP Parameter values	CPG: Event = Progress	CPG: Event = Progress		
	Generic notification = call is diverting			
	Redirection number			
	Call diversion information			
	Notification subscription options = presentation not allowed			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→	IAM	
	180 Ringing ←	<b>←</b>	ACM	
		<b>←</b>	CPG	
	Apply post test routine			

TP number	TP_305_058	Reference	7.4.6.3.3	
			Table 7.4.6.3.3.1,	
			Table 7.4.6.3.3.4	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of CPG Notification	subscription options into 18	1 (Being forwarded) escaped	
	Privacy header			
Test Purpose	Ensure that on receipt of a CP		•	
	number and the Call diversion			
	occurred, a 181 (Being forward			
	targeted-to-uri in a History-Info	header in the sent 181 is set	to 'history' as indicated in	
	table 6.2.5-40.			
ISUP Parameter values	<b>CPG:</b> Event = Progress			
	Generic notification = c	all is diverting		
	Redirection number			
	Call diversion information			
	Notification subscription options = NSO_value			
SIP Parameter values	181:			
		n@unknown.invalid?Reason=		
_	<sip:any pro<="" th=""><th>per URI?Privacy=<b>history</b> &gt;; in</th><th>idex=1.1</th></sip:any>	per URI?Privacy= <b>history</b> >; in	idex=1.1	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<del>-</del>	IAM	
	180 Ringing ←		ACM	
	181 Being forwarded	<del>-</del>	CPG	
		Apply post test routine		

TP number	TP_305_059	Reference	7.4.6.3.3		
	11 _000_000	11010101100	Table 7.4.6.3.3.1,		
			Table 7.4.6.3.3.5		
TSS reference	PSTN-SS/CDIV/		14510 7.1.0.0.0.0		
Selection criteria	NOT PICS 6.3.5/2 AND PICS	6.3.2/5			
Test Purpose name	Mapping of a CPG Alerting Re	0.0.0.0	Ringing) History-Info header		
Test Purpose	Ensure that on receipt of a CF				
root ran pood	number is present, a 180 (Rin				
	are mapped into the last hi-tar				
	indicated in table 6.2.5-37.	golda to all ill a lillotory lillo l	ioddor iir tiio cont 100 dc		
ISUP Parameter values	ACM: Backward call indicator	•			
	Called party status				
	Optional backward call				
		In-band info or appropriate pattern is now available			
	<b>CPG:</b> Event indicator = Alerti	CPG: Event indicator = Alerting			
	Redirection number				
	Nature of address indicator = NOA_value				
	Address signal <b>Digits</b>				
	Call diversion informati	on			
SIP Parameter values	180:				
	History-Info:				
	<sip:unknown@unknov< th=""><th></th><th></th></sip:unknown@unknov<>				
	<sip: last_hist_ur;<="" th=""><th>cause=any&gt;; index=1.1</th><th></th></sip:>	cause=any>; index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	· -	IAM		
	183 Session Progress ←	·	ACM		
	180 Ringing ←	·	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/	·	·	
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of a CPG Alerti	ing <b>Redirecting reason</b> in	to 180 (Ringing) History-Info header	
	cause parameter			
Test Purpose			r is set to 'Alerting' a Redirection	
			are present, a 180 (Ringing) is sent.	
		alue is mapped from the red	ceived Redirecting reason as indicated	
	in table 6.2.5-38.			
ISUP Parameter values	ACM: Backward call ind	dicator		
		status = no indication		
		on = call is diverting		
	Call diversion info	ormation		
	Redirection numb	per		
	CPG: Event indicator = Alerting			
	Call diversion information			
	Redirecting reason = <b>REAS_value</b>			
	Redirection number			
SIP Parameter values	180:			
	History-Info:			
		ınknown.invalid >; index=1		
	<sip: any="" proper<="" th=""><th>URI?Privacy=history; caus</th><th>e= Cause_value &gt;; index=1.1</th></sip:>	URI?Privacy=history; caus	e= Cause_value >; index=1.1	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	181 Being forwarded	<b>←</b>	← ACM	
	180 Ringing	<b>←</b>	← CPG	
	Apply post test routine			

TP number	TP_305_061	Reference	7.4.6.3.3	
			Table 7.4.6.3.3.1,	
			Table 7.4.6.3.3.5	
TSS reference	PSTN-SS/CDIV/		•	
Selection criteria	PICS 6.3.2/5 AND PICS 6.3.5/2			
Test Purpose name	Mapping of CPG Alerting Redirect	ing reason into 180 (Ringing)	Reason header	
Test Purpose	Ensure that on receipt of a CPG th			
	Restriction parameter and a Call d			
	sent. As a network option, a Reaso	on header is escaped in the pe	enultimate hi-entry of the	
	History-Info header as indicated in	table 6.2.5-39.		
ISUP Parameter	ACM: Backward call indicator			
values	Called party status = no			
	Generic notification = call is	diverting		
	Call diversion information			
	Redirection number	Redirection number		
	CPG: Event indicator = Alerting			
	Call diversion information			
	Redirecting reason = <b>REAS_value</b>			
	Redirection number			
SIP Parameter values	180:			
	<sip:unknown@unknown.invali< th=""><th></th><th></th></sip:unknown@unknown.invali<>			
	<sip:any proper="" uri?privacy="h&lt;/th"><th>nistory;cause=any&gt;; index=1.1</th><th></th></sip:any>	nistory;cause=any>; index=1.1		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	181 Being forwarded ←	<b>←</b>	ACM	
	180 Ringing ←	<b>←</b>	CPG	
		Apply post test routine		

TP number	TP_305_061A	Reference	7.4.6.3.3 Table 7.4.6.3.3.1,
			Table 7.4.6.3.3.1,
TSS reference	PSTN-SS/CDIV/	l	
Selection criteria	PICS 6.3.2/5		
Test Purpose name	Mapping of CPG Alerting Redirence header	ection Number Restriction in	to 180 (Ringing) Privacy
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a <b>Redirection Number Restriction parameter</b> is present, a 180 (Ringing) is sent. The Redirection Number  Restriction parameter value as indicated in table 6.2.5-41 and depending on the Notification subscription option in the previous received Call diversion information as indicated in table 6.2.5-40 is mapped into the Privacy header in the sent 180.		
ISUP Parameter	ACM: Backward call indicator		
values	Called party status = Generic notification = cal Call diversion information Notification subscript Redirection number  CPG: Event indicator = Alerting	ll is diverting n ion option = <b>NSO_value</b>	
	Redirection Number Res	,	
SIP Parameter values	180: <sip:unknown@unknown.inv< th=""><th></th><th>dex=1.1</th></sip:unknown@unknown.inv<>		dex=1.1
Comments		•	
Message flows	Mg	MGCF	ISUP
	·····-	<del>}</del>	17 W.V.
		<del>(</del>	,
	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 AND previous received Notification subscription option NSO_value was NOT "presentation not allowed" AND was NOT "presentation allowed without redirection number"	'none' OR Header not present
VA_02	Presentation restricted	'History'
VA_03	Parameter absent AND previous received Notification subscription option NSO_value was NOT "presentation not allowed" AND was NOT "presentation allowed without redirection number"	'none' OR Header not present

TP number	TP_305_061A	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 6.3.2/5				
Test Purpose name	Mapping of CPG Alerting without	Call diversion information p	parameters into 180 (Ringing)		
	History-Info header Reason heade				
Test Purpose	Ensure that on receipt of a CPG th				
	information parameters are preser				
	the last history entry and the esca				
	indicated in table 6.2.5-39 from a p		n information parameter. The		
	escaped Privacy in the last history	entry is set to 'history'			
ISUP Parameter	ACM: Backward call indicator				
values	Called party status = no				
	Generic notification = call is diverting				
	Call diversion information				
	Redirecting reason = <b>REAS_value</b>				
	Redirection number				
	CPG: Event indicator = Alerting				
SIP Parameter values	180:				
	<sip:unknown@unknown.inval< th=""><th></th><th>e_value&gt;; index=1,</th></sip:unknown@unknown.inval<>		e_value>; index=1,		
	<sip:any proper="" uri?privacy="l&lt;/th"><th>nistory&gt;; index=1.1</th><th></th></sip:any>	nistory>; index=1.1			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	181 Being forwarded ←	<b>←</b>	ACM		
	180 Ringing ←	<b>←</b>	CPG		
	Apply post test routine				

TP number	TP_305_061B	Reference	7.4.6.3.3 Table 7.4.6.3.3.1,	
			Table 7.4.6.3.3.1,	
TSS reference	PSTN-SS/CDIV/	L	14510 7.4.0.0.0.0	
Selection criteria	PICS 6.3.2/5			
Test Purpose name	Mapping of CPG Alerting without	Call diversion information r	parameters into 180 (Ringing)	
•	History-Info header Privacy heade		( 3 3)	
Test Purpose	Ensure that on receipt of a CPG th		erting' and no Call diversion	
_	information parameters are presen	nt, a 180 (Ringing) is sent. A F	listory-Info header is present	
	the last history entry and the esca			
	'history' independent of the value		cation subscription options	
	value as indicated in table 6.2.5-4	0		
ISUP Parameter	ACM: Backward call indicator			
values	Called party status = no			
	Generic notification = call is	s diverting		
	Call diversion information			
	Notification subscription option = <b>NSO_value</b> Redirection number			
	Redirection number			
	CPG: Event indicator = Alerting			
SIP Parameter values	180:			
	<sip:unknown@unknown.inval< th=""><th>id?Reason=SIP;cause=any&gt;;</th><th>index=1,</th></sip:unknown@unknown.inval<>	id?Reason=SIP;cause=any>;	index=1,	
	<sip:any proper="" uri?privacy="&lt;/p"></sip:any>	history>; index=1.1		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	181 Being forwarded	<b>←</b>	ACM	
	180 Ringing ←	<b>←</b>	CPG	
		Apply post test routine		

TP number	TP_305_064	Reference		7.4.6.3.3	
				Table 7.4.6.3.3.1,	
T00	DOTAL CO (ODI) //			Table 7.4.6.3.3.6	
TSS reference		PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.2/5				
Test Purpose name	Mapping of ANM F	Redirection Number Restri	ction into 200 C	K Privacy header	
Test Purpose				striction parameter is present	
	as an indication a	call diversion occurred, a	200 OK INVITE	is sent. The Redirection	
	Number Restrictio	n parameter value is mapp	ped into the Priv	acy header in the sent 200 as	
	indicated in table 6	6.2.5-41.			
ISUP Parameter values	ACM: Generic no	tification = call is diverting			
	Generic no	tification			
	Call diversi	on information			
	Redirection	number			
	ANM:				
	Redirection	Number Restriction = PR	ES_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>				
	<pre><sip:any proper="" uri?privacy="PRIV_value">; index=1.1</sip:any></pre>				
Comments					
Message flows	Mg	MG	CF	ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM	
	181 Being forward	led <b>←</b>	+	ACM	
	180 Ringing	<b>←</b>	+	CPG	
	200 OK INVITE	<b>←</b>	+	ANM	
	ACK	<b>→</b>	•		
	Apply post test routine				

TP number	TP_305_065	Reference	7.4.6.1	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	NOT (PICS 6.3.2/5 OR PICS 6.3.2/27)			
Test Purpose name	No mapping of Redire	ecting number, Original called	I number and Redirection Information	
Test Purpose	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	IAM: Redirecting number Redirection Information Redirecting reason = REAS_value Original called number			
SIP Parameter values				
Comments				
Message flows	ISUP IAM	MGCF → Apply post test	Mg → INVITE routine	

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

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

TP number	TP_305_066	Reference	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 OR PICS 6	6.3.2/27)			
Test Purpose name	No mapping of ACM Redirection	on number and Call diversion	information		
Test Purpose	Ensure that on receipt of an A				
	the Redirecting reason is set t	o REAS_value as indicated in	table 6.2.5-43 is present as		
	an indication a call diversion of	ccurred, a 180 Ringing is sent	and no History-Info header is		
	present. The call setup is not of	disrupted.			
ISUP Parameter values	ACM: Generic notification = call is diverting				
	Redirection number				
	Call diversion information				
	Redirecting reason = REAS_value				
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	INVITE ->	→	IAM		
	180 Ringing ←	· <b>←</b>	ACM		
	Apply post test routine				

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

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

## 6.2.6 Explicit Call Transfer (ECT)

TP number	TP_306_001	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 6.3.2/6		
Test Purpose name	A session is retrieved when	a notification 'call transfer, acti	ve' in a FAC was received and
	the session is on hold		
Test Purpose		d. Ensure that on receipt of an	
		is set to 'call transfer, active',	a reINVITE is sent the "a"
	attribute in the SDP is set to		
ISUP Parameter values	<b>FAC:</b> Generic notification = t	ransfer active	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	Mg	MGCF	ISUP
		<b>→</b>	IAM
		<del>-</del>	
	180 Ringing	<del>(</del>	ACM
	200 OK (INVITE)	← ←	ANM
		<b>→</b>	
	INVITE 2	<b>+ +</b>	CPG(hold)
	200 OK (INVITE)	<b>→</b>	2. 2()
		<del>-</del>	
	INVITE 3	← ←	FAC(call transfer, active)
	= *	- →	1112 (55 1155.7, 2576)
	()	- <b>E</b>	
		Apply post test routine	

TP number	TP_306_002	Reference		7.4.8	
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 6.3.2/6				
Test Purpose name	A session is retrieved when a notification 'call transfer, alerting' in a FAC was received				
	and the session is on h	old		-	
Test Purpose	I-MGCF: A session is o	n hold. Ensure that or	n receipt of an I	FAC message and the	
		Generic notification indicator is set to 'call transfer, alerting', no reINVITE is sent. The			
		en a FAC is received	the Generic no	tification set to 'call transfer	
	active' subsequently.				
ISUP Parameter values	FAC: Generic notification				
SIP Parameter values	INVITE 2 SDP a=sendo				
_	INVITE 3 SDP a=sendr	ecv			
Comments					
Message flows	Mg	MG	_	ISUP	
	INVITE 1	<del>)</del>	<b>→</b>	IAM	
	100 Trying	<del>(</del>	-		
	180 Ringing	<b>←</b>	+	ACM	
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM	
	ACK	<b>→</b>			
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)	
	200 OK (INVITE)	<b>→</b>		( )	
	ACK	<b>←</b>			
			<b>←</b>	FAC(call transfer, alerting)	
	INVITE 3	<b>←</b>	<b>←</b>	FAC(call transfer, active)	
	200 OK (INVITE)	<b>→</b>		,	
	ACK	<b>←</b>			
		Apply post	test routine		

TP number	TD 206 002	Reference	7.4.8	
	TP_306_003	Reference	7.4.0	
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6			
Test Purpose name	A session is retrieved when	a notification 'call transfer, a	ctive' in a CPG was received and	
	the session is on hold			
Test Purpose	O-MGCF: A session is on he	old. Ensure that on receipt of	a CPG message and the Generic	
	notification indicator is set to	'call transfer, active', a relN'	VITE is sent the "a" attribute in the	
	SDP is set to 'sendrecv'.			
ISUP Parameter values	CPG: Generic notification =	transfer active		
SIP Parameter values	INVITE 2 SDP a=sendonly			
	INVITE 3 SDP a=sendrecv			
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)	
	7 (1 (1))		ACK	
		•	AON	
	INVITE 2 ←	<b>←</b>	CPG(hold)	
	200 OK (INVITE) →	•	Of O(fiold)	
	ACK (INVITE)			
	ACK -			
	INIVITE O			
	INVITE 3	<b>←</b>	CPG(call transfer, active)	
	200 OK (INVITE) →			
	ACK ←			
		Apply post test routin	e	

TP number	TP_306_004	Reference	7.4.8		
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 6.3.2/6				
Test Purpose name	A session is retrieved the session is on hole		transfer, alerting' in a CPG was received and		
Test Purpose	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', no relNVITE is sent. The session is retrieved when a FAC is received the Generic notification set to 'call transfer active' subsequently.				
ISUP Parameter values	CPG: Generic notific	ation = transfer alerting			
SIP Parameter values	INVITE 2 SDP a=ser INVITE 3 SDP a=ser	,			
Comments					
Message flows	ISUP IAM ACM ANM INVITE 2	MGCF  ←  ←	Mg  → INVITE  ← 100 Trying  ← 180 Ringing  ← 200 OK (INVITE)  → ACK  ← CPG(hold)		
	200 OK (INVITE) ACK INVITE 3 200 OK (INVITE) ACK	→ ← → ← Apply post	<ul><li>← CPG(call transfer, alerting)</li><li>← FAC(call transfer, active)</li><li>test routine</li></ul>		

TP number	TP_306_005	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 6.3.2/6		
Test Purpose name	FAC with generic notification	'call transfer, active' received, r	no mapping
Test Purpose	O-MGCF: Ensure that on red	eipt of a FAC message and the	Generic notification indicator
		ive' and the session is not on ho	old, no mapping occurs on the
	SIP site.		
ISUP Parameter values	<b>FAC:</b> Generic notification = t	ransfer active	
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, active)	<b>→</b>	
		Apply post test routine	

TP number	TP_306_006	Reference	7.4.8		
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 6.3.2/6				
Test Purpose name	FAC with generic notification 'c	all transfer, alerting' received,	no mapping		
Test Purpose	O-MGCF: Ensure that on receipt of a FAC message and the Generic notification indicator				
	is coded as 'call transfer, alerting	ng' and the session is not on he	old, no mapping occurs on the		
	SIP site.				
ISUP Parameter values	<b>FAC:</b> 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		
			0 0		
	ANM	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
			-		
	FAC(call transfer, alerting)	<b>→</b>			
	( a.a. (	Apply post test routine			

TD	TD 000 007	D-4		7.40
TP number	TP_306_007	Ret	erence	7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6			
Test Purpose name	CPG with generic not	ification 'call tr	ansfer, active' receiv	ved, no mapping
Test Purpose	I-MGCF: Ensure that	on receipt of a	CPG message and	the Generic notification indicator is
	coded as 'call transfe	r, active and t	ne session is not on	hold, no mapping occurs on the
	SIP site.			
ISUP Parameter values	CPG: Generic notifica	ation = transfe	active	
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)	<b>←</b>	<b>←</b>	ANM
	ACK	÷	•	7 (I VIVI
	AUN	•		
			<b>←</b>	CPG(call transfer, active)
		A	oply post test routi	IIC

TP number TSS reference Selection criteria Test Purpose name Test Purpose		Reference tification 'call transfer, alertin	7.4.8			
Selection criteria Test Purpose name	PICS 6.3.2/6 CPG with generic no	tification 'call transfer, alertin	nd received no manning			
Test Purpose name	CPG with generic no	tification 'call transfer, alertin	od received no mapping			
		tification 'call transfer, alertin	a' received ne menning			
Test Purpose	I-MGCF: Ensure that		ig received, no mapping			
		I-MGCF: Ensure that on receipt of a CPG message and the Generic notification indicator is coded as 'call transfer, alerting' and the session is not on hold, no mapping occurs on the SIP site.				
ISUP Parameter values	CPG: Generic notification	ation = transfer alerting				
SIP Parameter values		<del>-</del>				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE 100 Trying	<b>→</b>	→ IAM			
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b> ANM			
		Apply post tes	← CPG(call transfer, alerting)			

#### 6.2.7 Call Waiting

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

TP number	TP_307_002	Reference	7.4.9
TSS reference	PSTN-SS/CW/		
Selection criteria	6.3.2/7		
Test Purpose name	Generic notification 'Call is a w	aiting call' in CPG is not inter	worked
Test Purpose	An ACM called party status 'no and the Event indication is set		
	'Call is a waiting call' is not inte		Sent. The Generic notification
ISUP Parameter values	<b>ACM:</b> BCI Called party Status <b>CPG:</b> Event indication = ALER		
SIP Parameter values			•
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	<b>→</b>	IAM
	100 Trying ←		
		<b>←</b>	ACM(no indication)
	180 Ringing ←	<b>←</b>	CPG(ALERTING)
		Apply post test routine	·

#### 6.2.8 Call Hold

TP number	TP_308_001	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/	•	·		
Selection criteria	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=sendo	nly			
	SDP 2	2014			
Comments	a=sendre	ecv			
Message flows	Mg	MGCF	ISUP		
Wessage nows		stablish a confirmed dialog			
	CASE A	stabilish a commined dialog			
	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>			
	CASE A	,	( ODO(natriava)		
	INVITE(SDP 2 = sendrecv)	<b>←</b> →	← CPG(retrieve)		
	200 OK (INVITE) ACK	<del>7</del> ←			
	ACK	•			
1	CASE B				
	CASE B UPDATE(SDP 2 = sendrecv)	<b>←</b>			
	CASE B UPDATE(SDP 2 = sendrecv) 200 OK (UPDATE)	<b>←</b>			

TP number	TP_308_002	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.2/9					
Test Purpose name	Hold and Retrieve red	uested from SIP in reINVITE	request			
Test Purpose	Ensure that on receipt	Ensure that on receipt of an INVITE request in the confirmed dialogue and the media				
	stream in the SDP is	set to 'sendonly', a CPG mes	sage is sent the Generic notification			
	indicator is set to 'rem	ote hold'.				
	Ensure that on receipt	t of an INVITE request in the	confirmed dialogue and the media			
	stream in the SDP is s	set to 'sendrecv', a CPG mes	sage is sent the Generic notification			
	indicator is set to 'rem	ote retrieval'.				
ISUP Parameter values	CPG: Generic notific	ation				
	Remote ho	ld				
	Remote ret	Remote retrieval				
SIP Parameter values	INVITE/UPDATE:SDF	P 1				
		a=sendonly				
	SDP 2					
	a=sendrecv					
Comments						
Message flows	Mg	MGCF	ISUP			
		Establish a confirme	d dialogue			
	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 r	outine			

TD	TD 000 000	D-4	7 4 40		
TP number	TP_308_003	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.2/9				
Test Purpose name	Hold and Retrieve requested f	rom 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 'sendrecy', a CPG message is sent the Generic notification				
	indicator is set to 'remote retrie	eval'.			
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
	Remote retrieval				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendonly				
	SDP 2				
	a=sendrecv				
Comments					
Message flows	Mg	MGCF	ISUP		
		stablish a confirmed dialogu	ie		
	UPDATE(sendonly)		CPG(hold)		
	200 OK (UPDATE)	•	G. G(1161G)		
	ACK -				
	ACN 7				
	UPDATE(sendrecv)	· -	CDC(retrieve)		
		-	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 6.3.2/9					
Test Purpose name	Hold requested from both end	s, session inactive sent				
Test Purpose	'remote hold' und the session	Ensure that on receipt of a CPG message and the Generic notification indicator is set to '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=sendo SDP 2 a=inactiv	•				
Comments	u-inactiv					
Message flows	Mg	MGCF Establish a confirmed dialogue	ISUP			
	INVITE(SDP 1 = sendonly) 200 OK (INVITE) ACK	→ ← →	→ CPG(hold)			
	CASE A INVITE(SDP 2 = inactive) 200 OK (INVITE) ACK	<b>←</b> → <b>←</b>	← CPG(hold)			
	CASE B UPDATE(SDP 2 = inactive) 200 OK (UPDATE)	← → Apply post test routine				

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

TP number	TP_308_006	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/	- 1	
Selection criteria	PICS 6.3.2/9		
Test Purpose name	First hold from SIP. Session	inactive, Retrieve requested from	n SIP
Test Purpose	receipt of an INVITE request	first from SIP as well as second and the media stream in the SDI neric notification indicator is set to	P is set to 'recvonly', a CPG
ISUP Parameter values	CPG 1: Generic notificatio Remote hold CPG 2: Generic notificatio	n	
SIP Parameter values	Remote retriev	'aı	
SIF Farailleter values	a=send	only	
	SDP 2	Office	
	a=inact	ive	
	SDP 3		
	a=recvo	only	
Comments			
Message flows	Mg	MGCF	ISUP
		Establish a confirmed dialogue	
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG 1 (hold)
	200 OK (INVITE) ACK	<b>←</b> →	
	ACK	7	
	CASE A INVITE(SDP 2 = inactive) 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	← CPG 1 (hold)
	CASE B UPDATE(SDP 2 = inactive) 200 OK (UPDATE)	<b>←</b> →	
	INVITE(SDP 3 = recvonly) 200 OK (INVITE) ACK	→ ← → Apply post test routine	→ CPG 2 (retrieve)

TP number	TP_308_007	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/		•
Selection criteria	PICS 6.3.2/9		
Test Purpose name	First hold from SIP. Session in	active, Retrieve requested f	rom ISUP
Test Purpose	The session is set on hold at f	irst from SIP as well as seco	and from ISUP. Ensure that on
			licator is set to 'remote retrieval',
		st is sent and the media strea	am 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	re	
	SDP 3		
Comments	a=recvor	niy	
Comments		MOOF	ICUD
Message flows	Mg	MGCF	ISUP
		stablish a confirmed dialo	_
	INVITE(SDP 1 = sendonly)	<del>)</del>	→ CPG(hold)
	200 OK (INVITE)	<del>(</del>	
	ACK	<b>→</b>	
	CASE A		
		_	← CPG(hold)
	INVITE(SDP 2 = inactive)	<b>←</b> →	← CPG(hold)
	200 OK (INVITE) ACK	<del>7</del>	
	ACK	~	
	CASE B		
	UPDATE(SDP 2 = inactive)	<b>←</b>	
	200 OK (UPDATE)	<b>→</b>	
	200 OK (OFDATE)	7	
	CASE A		
	INVITE(SDP 3 = recvonly)	<b>←</b>	← CPG(retrieve)
	200 OK (INVITE)	<b>→</b>	Cr G(retrieve)
	ACK	<del>-</del>	
	ACK	•	
	CASE B		
	UPDATE(SDP 3 = recvonly)	<b>←</b>	
	200 OK (UPDATE)	<b>→</b>	
	200 OK (OF DATE)	Apply post test routine	
	1	Apply post test routine	

TP number	TP_308_008	Reference	7.4.	10	
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.2/9				
Test Purpose name	First hold from ISUP. Session	inactive, Retrieve requested from	om SI	Р	
Test Purpose		irst from ISUP as well as secon			
	receipt of an INVITE request a	and the media stream in the SD	P is s	set to 'recvonly', a CPG	
		eric notification indicator is set t	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	re			
	SDP 3				
	a=recvor	nly			
Comments					
Message flows	Mg _	MGCF		ISUP	
	Establish a confirmed dialogue				
	CASE A				
	INVITE(SDP 1 = sendonly)	<b>←</b>	<b>←</b>	CPG(hold)	
	200 OK (INVITE)	<b>→</b>			
	ACK	<del>(</del>			
	CASE B				
		_			
	UPDATE(SDP 1 = sendonly)	<b>←</b> →			
	200 OK (UPDATE)	7			
	INVITE(SDP 2 = inactive)	<b>→</b>	<b>→</b>	CPG(hold)	
	200 OK (INVITE)	<b>É</b>	•	Ci G(ilola)	
	ACK	<b>→</b>			
	AUN	•			
	INVITE(SDP 3 = recvonly)	<b>→</b>	<b>→</b>	CPG(retrieve)	
	200 OK (INVITE)	<b>←</b>	•	5. 5(16th16v6)	
	ACK	<b>•</b>			
		Apply post test routine			
		Apply post test routille			

TP number	TP_308_009	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/	I	- I		
Selection criteria	PICS 6.3.2/9				
Test Purpose name	First hold from ISUP. Session	inactive, Retrieve reques	sted from ISUP		
Test Purpose			second from SIP. Ensure that on	)	
_	receipt of a CPG message and	the Generic notification	indicator is set to 'remote retrieva	al',	
		t is sent and the media s	tream in the SDP is set to 'recvor	nly'.	
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendo				
	SDP 2				
	a=inactiv				
	SDP 3				
Comments	a=recvor	niy			
Message flows	Mg	MGCF	ISUP		
wessage nows		stablish a confirmed d			
	CASE A	Stabilish a commined u	lalogue		
	INVITE(SDP 1 = sendonly)	<b>←</b>	← CPG(hold)		
	200 OK (INVITE)	<b>→</b>	Ci G(ilola)		
	ACK	É			
	ACK	•			
	CASE B				
	UPDATE(SDP 1 = sendonly)	<b>←</b>			
	200 OK (UPDATE)	<b>→</b>			
	200 011 (01 27112)	•			
	INVITE(SDP 2 = inactive)	<b>→</b>	→ CPG(hold)		
	200 OK (INVITE)	<del>-</del>	2 31 3(11514)		
	ACK	÷			
		_			
	CASE A				
	INVITE(SDP 3 = recvonly)	<b>←</b>	CPG(retrieve)		
	200 OK (INVITE)	<b>→</b>			
	ACK	<b>←</b>			
	CASE B				
	UPDATE(SDP 3 = recvonly)	<b>←</b>			
	200 OK (UPDATE)	<b>→</b>			
	` '	Apply post test rout	ina		

TP number	TP_308_010		Reference		7.4.10.2			
TSS reference	PSTN-SS/HOLD/		rtororonoo		7.4.10.2			
		3100 0 0	0/4					
Selection criteria		PICS 6.3.2/9 AND PICS 6.3.6/1						
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	a dialog	ue is established, th	e UPD	ATE request indicating the hold			
					a 180 Ringing is established. The			
	media stream in the							
ISUP Parameter values	CPG: Generic noti		or to condomy man	<u>.</u>				
loor rarameter values	Remote							
SIP Parameter values	UPDATE: SDP	ioiu						
SIP Parameter values		براميمايي						
_		ndonly	011					
Comments	A CPG is received a	after an A						
Message flows	ISUP		MGCF		Mg			
	IAM	<b>→</b>	Start Ti/w2	→	INVITE			
				<b>←</b>	100 Trying			
	ACM	<b>←</b>	Timeout Ti/w2		,			
	7.0101	•	Timeout Ti/WZ					
	ODO(  - )							
	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	ŀ	Reference	7.4.10.2		
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.2/9 AND F	PICS 6.3.6/1				
Test Purpose name	CPG hold received dialogue	before a dial	ogue was established l	JPDATE is sent in confirmed		
Test Purpose	remote hold before the hold indication is established. The me	a dialogue i s sent <b>after t</b> edia stream i	s established, the INVI the confirmed dialogu	eric notification indicator is set to TE or UPDATE request indicating e by receiving a 200 OK (INVITE) is donly indicating the hold state.		
ISUP Parameter values	CPG: Generic notification Remote I					
SIP Parameter values	INVITE/UPDATE:SI	DP a=sendonly	у			
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 routi	ine		

TD mumber	TD 000 040		Deference		7.4.40.0	
TP number	TP_308_013		Reference		7.4.10.2	
TSS reference	PSTN-SS/HC	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.2/9	PICS 6.3.2/9 AND PICS 6.3.6/1				
Test Purpose name	An UPDATE	(hold) is repeated	in the early dialogue af	ter SDF	offer answer exchange	
Test Purpose	Ensure that of	n receipt of an UF	PDATE request after the	e session	on was set on hold indicating	
	a new SDP, a	an UPDATE reque	st is sent and the media	a streai	m is set to 'sendonly' to	
		evious held state.			•	
ISUP Parameter values	CPG: Gener	ric notification				
	Re	mote hold				
SIP Parameter values	INVITE:	SDP1				
	UPDATE 1:	SDP a=sendonly	,			
			ec negotiation no hold)			
Comments	0. 272 2.	02. <u>2 (a)</u> 0000	o negotiation no nota,			
Message flows	ISU	P	MGCF		Mg	
	IAM	<b>→</b>	<b>→</b>	INV	TE(SDP1)	
	ACM	÷	·		Ringing	
	AOW	`	•	100	Kinging	
	CDC(hald)	<b>→</b>	<b>→</b>	LIDE	NATE 1 (condonly)	
	CPG(hold)	7	<del>7</del>		OATE 1 (sendonly)	
			~	200	OK (UPDATE)	
			_		ATE 0 (0000)	
			<b>←</b>		DATE 2 (SDP2)	
			<b>→</b>	200	OK (UPDATE)	
			<b>→</b>	· · -	DATE 1 (sendonly)	
			<del>(</del>	200	OK (UPDATE)	
			Apply post test rout	tine		

TP number	TP_308_014	Reference	7.4.10.2
TSS reference	PSTN-SS/HOLD/	•	•
Selection criteria	PICS 6.3.2/9 AND PICS 6.3	.6/1	
Test Purpose name	An UPDATE (hold) is sent a		
Test Purpose			e that on receipt of a 180 Ringing sent on this dialogue and the media
ISUP Parameter values	CPG: Generic notification Remote hold		
SIP Parameter values	180 1: To: <appropriate 180="" 1:="" 2:="" <appropri<="" <appropriate="" th="" to:="" update="" ur=""><th>&gt;; tag=2</th><th></th></appropriate>	>; tag=2	
Comments			
Message flows	ISUP	MGCF	Mg
	ACM →	<b>→</b>	INVITE 180 Ringing 1
	CPG(hold) →	<b>→</b>	UPDATE 1 (sendonly) 200 OK (UPDATE)
		<b>←</b>	180 Ringing 2
		<b>→</b>	UPDATE 2 (sendonly) 200 OK (UPDATE)
		Apply post test rout	ine

TP number	TP 308 015	R	eference	7.4.10.2			
TSS reference	PSTN-SS/HOLD/		0.0.0.00	11.110.2			
Selection criteria	PICS 6.3.2/9 AND P	ICS 6 3 6/1					
Test Purpose name			dition) is sent after 20	00 OK INVITE was received when a			
l cott a poss name	CPG (hold) was received in early dialogue						
Test Purpose		A CPG indicating Hold was received in the early dialogue. Ensure that on receipt of a 200					
	OK (INVITE) establishing the confirmed dialogue, an INVITE or UPDATE request is sent						
			endonly' indicating the				
ISUP Parameter values	CPG: Generic notif						
	Remote h	old					
SIP Parameter values	INVITE/UPDATE 2:	SDP					
		a=sendo	only				
Comments			•				
Message flows	ISUP		MGCF	Mg			
	IAM	<b>→</b>	→	INVITE			
	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) ACK			
	CASE A		→ ← →	INVITE 2 (sendonly) 200 OK (INVITE) ACK			
	CASE B		<b>→</b>	UPDATE 2 (sendonly) 200 OK (UPDATE)			
			Apply post test rout	ine			

TP number	TP_308_016	R	eference	7.4.10
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 6.3.2/9 AND PI	CS 6.3.6/1		
Test Purpose name	'sendonly' and 'sendre	ecv' receive	d from the terminating	SIP user in the early dialogue
Test Purpose	Ensure that on receip	t of an UPD	ATE request in the ea	rly dialogue and the media stream
	is set to 'sendonly' a	CPG messa	ige is sent and the Ger	neric notification indicator is set to
	'remote hold'.			
				rly dialogue and the media stream
				ecv' in the received UPDATE, a
	CPG message is sen	t and the G	eneric notification indic	ator is set to 'remote retrieval'.
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	→	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	ACM	<b>←</b>	+	180 Ringing
	CPG(hold)	<b>←</b>	<b>+</b>	UPDATE(sendonly)
			<b>→</b>	200 OK (UPDATE)
	CPG(retrieve)	<b>←</b>	<b>←</b>	UPDATE(sendrecv)
			<b>→</b>	200 OK (UPDATE)
			Apply post test routi	ne

TP number	TP_308_017	Reference	7.4.2
TSS reference	PSTN-SS/HOLD/		·
Selection criteria	PICS 6.3.2/9 AND PICS 6.3.6/	1	
Test Purpose name	'sendonly' and 'sendrecv' recei	ved from the originating SIP u	ser in the early dialogue
Test Purpose	Ensure that on receipt of an Uf is set to 'sendonly', a CPG med 'remote hold'. Ensure that on receipt of an Uf is set to 'sendonly' the session Generic notification indicator is	PDATE request in the early dissage is sent and the Generic PDATE request in the early dissalready set on hold, a CPG	alogue and the media stream notification indicator is set to alogue and the media stream
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE ->	→	IAM
	180 Ringing ←	+	ACM
	UPDATE(sendonly) 200 OK (UPDATE)  →	<b>→</b>	CPG(hold)
	UPDATE(sendrecv) 200 OK (UPDATE)  →	<b>→</b>	CPG(retrieve)
		Apply post test routine	

TP number	TP_308_018	F	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 6.3.2/9 AND P	ICS 6.3.6/1		
Test Purpose name	'hold' and 'retrieve' re	eceived from	the originating PSTN	user in the early dialogue
Test Purpose	Ensure that on recei	pt of a CPG	message and the Gen	eric notification indicator is set to
	'remote hold' in the	early dialogu	e, an UPDATE request	t is sent and the mediastream is set
	to 'sendonly'.			
				eric notification indicator is set to
				, an UPDATE request is sent and
	the media stream is	set to 'sendr	ecv'.	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	ACM	+	<b>←</b>	180 Ringing
	CPG(hold)	<b>→</b>	<b>→</b>	UPDATE(sendonly)
	, ,		<b>←</b>	200 OK (UPDATE)
	CPG(retrieve)	<b>→</b>	<b>→</b>	UPDATE(sendrecv)
			<b>←</b>	200 OK (UPDATE)
			Apply post test routi	ne

#### 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 6.3.2/10		
Test Purpose name	The diagnostic field is not inter	worked	
Test Purpose	Ensure that on receipt of an RE	EL message cause #17 and a	diagnostic field is present set
	to 'CCBS possible', a final SIP	response 486 Busy Here is se	ent no indication of CCBS is
	present.		
ISUP Parameter values	<b>REL:</b> Cause indicator CCBS po	ossible indicator = CCBS poss	sible
SIP Parameter values			
Comments	The CCBS possible indicator is	s 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/		
Selection criteria	PICS 6.3.2/11		
Test Purpose name	CCNR possible indication rece	ived in an ACM, discarded	
Test Purpose	Ensure that on receipt of an AC	CM and a CCNR possible indic	cator is present the value set
	to 'CCNR possible', a 180 Ring	ging is sent without indication o	of CCNR facility.
ISUP Parameter values	ACM: BCI called party status in	ndicator = subscriber free, CC	NR Possible Indicator =
	CCNR possible		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	180 Ringing ←	<b>←</b>	ACM
		Apply post test routine	

TP number	TP_310_002	Reference	7.4.12
TSS reference	PSTN-SS/CCNR/		
Selection criteria	PICS 6.3.2/11		
Test Purpose name	CCNR possible indication rece	ived in a CPG, discarded	
Test Purpose	Ensure that on receipt of a CP to 'CCNR possible', a 180 Ring		
ISUP Parameter values	<b>ACM:</b> BCI called party status i <b>CPG:</b> Event indicator = ALER		
SIP Parameter values			·
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
		<b>←</b>	ACM(no indication)
	180 Ringing ←	<b>←</b>	CPG
		Apply post test routine	

# 6.2.11 Terminal Portability (TP)

TP number	TP_311_001	Reference	7.4.13
TSS reference	PSTN-SS/TP/		
Selection criteria	PICS 6.3.2/12		
Test Purpose name	SUS user initiated is mapped ir	nto an reINVITE SDP sendonly	y
Test Purpose	Ensure that on receipt of an SU	JS message and the Suspend	Resume indicator is set to
	'ISDN subscriber initiated', a re	INVITE is sent and the media	stream indicated in the SDP
	is set to 'sendonly'.		
ISUP Parameter values	SUS: Suspend/Resume		
	ISDN subscriber initi	ated	
SIP Parameter values	INVITE: SDP		
	a=sendonly		
Comments	•		
Message flows	Mg	MGCF	ISUP
	INVITE -	<b>→</b>	IAM
	100 Trying ←		
	180 Ringing ←	<b>←</b>	ACM
	200 OK (INVITE) ←	<b>←</b>	ANM
	ACK		
	INVITE(sendonly) ←	<b>←</b>	SUS(user)
	200 OK (INVITE) →		,
	ACK		
ı I	ACI		

TP number	TP_311_002		Reference	7.4.13
TSS reference	PSTN-SS/TP/			
Selection criteria	PICS 6.3.2/12			
Test Purpose name	RES user initiated is ma	pped ir	to an reINVITE SDP se	endrecv
Test Purpose				s set to 'ISDN subscriber initiated'
				age and the Suspend/Resume
				E is sent and the media stream
	indicated in the SDP is s		endrecv'.	
ISUP Parameter values	RES: Suspend/Resum			
	ISDN subscri	ber initi	ated	
SIP Parameter values	INVITE: SDP			
	a=sendre	CV		
Comments	10115			
Message flows	ISUP	_	MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	
		_	<b>←</b>	
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	+	200 OK (INVITE)
			<b>→</b>	ACK
	INVITE(sendonly)	<del>(</del>	<b>←</b>	SUS(user)
	200 OK (INVITE)	<b>→</b>		
	ACK	_		
	INVITE(sendrecv)	<b>←</b>	<b>+</b>	RES(user)
	200 OK (INVITE)	<b>→</b>		
	ACK	←		
			Apply post test rou	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 6.3.2/13		
Test Purpose name	I-MGCF: Session not on hold,	notification 'conference establi	shed'
Test Purpose	A session at the I-MGCF is in t	he confirmed state and not se	t on hold. Ensure that on
	receipt of a CPG message the established no reINVITE is ser		s set to 'Conference
ISUP Parameter values	<b>CPG:</b> Generic notification	iii.	
a an anneter values	Conference esta	phlished	
SIP Parameter values	Contended esta	ionoried	
Comments	This state is applicable for COI	NF and 3PTY	
Message flows	Mg	MGCF	ISUP
oougo iioiio	INVITE →	→	IAM
	100 Trying		
	180 Ringing ←	<b>←</b>	ACM
			A N I N 4
	200 OK (INVITE) ← ACK →	<b>←</b>	ANM
	ACR		
		<b>←</b>	CPG
		Apply post test routine	

TP number	TP_312_002	Reference	7.4.14				
TSS reference	PSTN-SS/CONF/	•	·				
Selection criteria	PICS 6.3.2/13						
Test Purpose name	O-MGCF: Session not on hold	d, notification 'conference e	established'				
Test Purpose	receipt of a CPG message the	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	<b>CPG:</b> Generic notification =						
	Conference est	ablished					
SIP Parameter values							
Comments	This state is applicable for CC	NF and 3PTY					
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				
	CPG →						
		Apply post test routing	ne				

TP number	TP 312 003	Reference	7.	4.14
TSS reference	PSTN-SS/CONF/	•		
Selection criteria	PICS 6.3.2/13			
Test Purpose name	I-MGCF: Session on hold, no	tification 'conference establish	ed'	
Test Purpose	A session at the I-MGCF is in	the confirmed state and set or	n hol	d. Ensure that on receipt of
_	a CPG message the Generic	notification indicator is set to '0	Confe	erence established' a
	reINVITE request is sent the	a' attribute in the SDP is set to	'sen	drecv'.
ISUP Parameter values	CPG 1: Generic notification	า		
	Remote hold			
	CPG 2: Generic notification	า		
	Conference est	tablished		
SIP Parameter values	INVITE 1: SDP			
	a=sendonly			
	INVITE 2: SDP			
	a=sendrecv			
Comments	This state is applicable for 3P	TY		
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>	<b>←</b>	ANM
	ACK	<b>à</b>	•	AINIVI
	7.61			
	INVITE 1 (sendonly)	<b>←</b>	<b>←</b>	CPG 1
	200 OK INVITE (recvonly)	<b>→</b>	-	0.0.
	ACK	<b>É</b>		
		_		
	INVITE 2 (sendrecv)	<b>←</b>	<b>←</b>	CPG 2
	200 OK INVITE (sendrecv)	<b>→</b>	-	
	ACK	<del>-</del>		
		Apply post test routine		

TP number	TP_312_004	Reference		7.4.14		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.2/13					
Test Purpose name	O-MGCF: Session on ho	old, notification 'conference	estab	lished'		
Test Purpose	A session at the O-MGC	F is in the confirmed state	and se	et on hold. Ensure that on receipt		
				t to 'Conference established' a		
		t the 'a' attribute in the SDF	is set	to 'sendrecv'.		
ISUP Parameter values	CPG 1: Generic notific					
	Remote he					
	CPG 2: Generic notific					
		ce established				
SIP Parameter values	INVITE 1: SDP					
	a=sendon	ly				
	INVITE 2: SDP					
0	a=sendred					
Comments	This state is applicable for			B		
Message flows	ISUP	MGCF →		Mg		
	IAM	7		INVITE		
	A CNA	<b>←</b>	_	100 Trying		
	ACM	~	_	180 Ringing		
	ANINA	<b>←</b>	<b>←</b> :	200 OK (INI\/ITE)		
	ANM	~		200 OK (INVITE) ACK		
			7	ACK		
	CPG 1	<b>→</b>	<b>→</b>	INIVITE 1 (condonly)		
	CPG I	7		INVITE 1 (sendonly) 200 OK INVITE (recvonly)		
				,		
	→ ACK					
	CPG 2	<b>→</b>	<b>→</b>	INIVITE 2 (condragu)		
	UF G 2	7	- '	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)		
				ACK		
		Apply post tost	-	1		
	Apply post test routine					

TP number	TP_312_005	Reference	7.4.14
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.2/13		
Test Purpose name	I-MGCF: Session not on hold,	notification 'Conference discor	nnected'
Test Purpose	A session at the I-MGCF is in	the confirmed state not on hold	d and a conference is
	established. Ensure that on re		eneric notification indicator is
	set to 'Conference disconnecte		
ISUP Parameter values	CPG 1: Generic notification		
	Conference esta	ablished	
	CPG 2: Generic notification		
	Conference disc	connected	
SIP Parameter values			
Comments	This state is applicable for CO		
Message flows	Mg	MGCF	ISUP
	INVITE ->		IAM
	100 Trying ←		
	180 Ringing	<b>←</b>	ACM
	200 OK (INVITE) ← ACK →		ANM
		<b>←</b>	CPG 1
		← Apply post test routine	CPG 2

TP number	TP_312_006	Reference	7.4.14		
TSS reference	PSTN-SS/CONF/		•		
Selection criteria	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 established. Ensure that on reset to 'Conference disconnected'	ceipt of a CPG message the	n hold and a conference is he Generic notification indicator is		
ISUP Parameter values	CPG 1: Generic notification Conference established CPG 2: Generic notification Conference disconnected				
SIP Parameter values					
Comments	This state is applicable for CO	NF and 3PTY			
Message flows	ISUP	MGCF	Mg		
	IAM → ACM ←	→ ← ←	INVITE 100 Trying 180 Ringing		
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK		
	CPG 1 →				
	CPG 2 →	Apply post test routing	ne		

TP number	TP_312_007	Reference	7.	4.14			
TSS reference	PSTN-SS/CONF/	•					
Selection criteria	PICS 6.3.2/13						
Test Purpose name	I-MGCF: Session on hold, no	tification 'Conference disconne	cted	1			
Test Purpose		the confirmed state set on hol					
		eceipt of a CPG message the 0					
		set to 'Conference disconnected' a reINVITE request is sent the 'a' attribute in the SDP is					
	set to 'sendonly'.						
ISUP Parameter values	CPG 1: Generic notification	n					
	Remote hold CPG 2: Generic notification	•					
	Conference es						
	CPG 3: Generic notification						
	Conference dis	· <del>-</del>					
SIP Parameter values	INVITE 1: SDP						
	a=sendonly						
	INVITE 2: SDP						
	a=sendrecv						
	INVITE 3: SDP						
	a=sendonly						
Comments	This state is applicable for 3F			IOUD			
Message flows	Mg INVITE	MGCF	<b>→</b>	ISUP IAM			
	100 Trying	<b>→</b>	7	IAW			
	180 Ringing	<del>-</del>	<b>←</b>	ACM			
	100 Kinging		•	ACIVI			
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM			
	ACK	• →	•	7 (( ( ( )			
	7.61.0	-					
	INVITE 1 (sendonly)	<b>←</b>	<b>←</b>	CPG 1			
	200 OK INVITE (recvonly)	<b>→</b>					
	ACK `	<b>←</b>					
	INVITE 2 (sendrecv)	<b>←</b>	←	CPG 2			
	200 OK INVITE (sendrecv)	<b>→</b>					
	ACK	<del>(</del>					
		_	_	000			
	INVITE 3 (sendonly)	<del>(</del>	<b>←</b>	CPG 3			
	200 OK INVITE (recvonly)	<b>→</b>					
	ACK	=					
		Apply post test routine					

TP number	TP_312_008	Reference	7.4.14		
TSS reference	PSTN-SS/CONF/	1	1, , , , ,		
Selection criteria	PICS 6.3.2/13				
Test Purpose name	O-MGCF: Session on hold, no	otification 'Conference disc	connected'		
Test Purpose	A session at the O-MGCF is i				
l cott a pood	established. Ensure that on receipt of a CPG message the Generic notification indicator is				
			sent the 'a' attribute in the SDP is		
	set to 'sendonly'.				
ISUP Parameter values	CPG 1: Generic notification	า			
	Remote hold				
	CPG 2: Generic notification	า			
	Conference est	tablished			
	CPG 3: Generic notification	า			
	Conference dis	connected			
SIP Parameter values	INVITE 1: SDP				
	a=sendonly				
	INVITE 2: SDP				
	a=sendrecv				
	INVITE 1: SDP				
Comments	a=sendonly				
Comments Magazine flavor	This state is applicable for 3P	MGCF	Mg		
Message flows	A conference is established				
	IAM →	A conference is establis	INVITE		
	IAW	<del>-</del>	100 Trying		
	ACM	<del>-</del>	180 Ringing		
	ACIVI		180 Kinging		
	ANM ←	<b>+</b>	200 OK (INVITE)		
	AINIVI	<b>→</b>	ACK		
		7	ACK		
	CPG 1 →	<b>→</b>	INVITE 1 (sendonly)		
	Cror	<del>,</del>	200 OK INVITE (recvonly)		
		<b>,</b>	ACK		
		7	ACK		
	CPG 2 →	<b>→</b>	INVITE 2 (sendrecv)		
	0.02	<b>+</b>	200 OK INVITE (sendrecv)		
		÷	ACK		
		•			
	CPG 3 →	<b>→</b>	INVITE 3 (sendonly)		
		<del>,</del>	200 OK INVITE (recvonly)		
		÷	ACK		
		Apply post test routing			
	1	Apply poor tool loutil	••		

TP number	TP_312_009	Reference	7.	4.14	
TSS reference	PSTN-SS/CONF/	•			
Selection criteria	PICS 6.3.2/13				
Test Purpose name	I-MGCF: notification 'isolated'	and 'reattached' interworked			
Test Purpose	Generic notification indicator the SDP is set to 'sendonly'. Sonotification indicator is set to 'SDP is set to 'sendrecy'.	s established. Ensure that on re is set to 'isolated' a reINVITE re Subsequently on receipt of a Cl reattached' a reINVITE reques	eque PG n	st is sent the 'a' attribute in nessage the Generic	
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=sendrecv				
Comments	This state is applicable for CC	NF.			
Message flows	Mg	MGCF		ISUP	
	INVITE 100 Trying 180 Ringing	<b>→</b>	<b>→</b>	IAM ACM	
	200 OK (INVITE) ACK	<b>←</b> <b>→</b>	<b>←</b>	ANM	
			<b>←</b>	CPG 1	
	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK	<b>← → ←</b>	<b>←</b>	CPG 2	
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	← → ← Apply post test routine	<b>←</b>	CPG 3	

TP number	TP_312_010	Referenc	е	7.4.14		
TSS reference	PSTN-SS/CON	IF/				
Selection criteria	PICS 6.3.2/13					
Test Purpose name		ication 'isolated' and 'reatta				
Test Purpose	Generic notification set notification indi	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 2: Gen i: CPG 2: Gen r	CPG 1: Generic notification Conference established CPG 2: Generic notification isolated				
SIP Parameter values	INVITE 2: SDF	a=sendonly a=sendrecv				
Comments		plicable for CONF				
Message flows	ISUP	MGC		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>	<b>→ ← →</b>	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK		
	CPG 3	<b>→</b>	→ ← →	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK		
		Apply p	ost test rout	ine		

## 6.2.13 Closed User Group (CUG)

TP number	TP_313_001	Reference	7.4.16		
TSS reference	PSTN-SS/CUG/				
Selection criteria	PICS 6.3.2/14				
Test Purpose name	oFCi CUG outgoing access all	owed 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 Forward Call inc	dicator: CUG with outgoing ac	cess 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 6.3.2/14					
Test Purpose name	oFCi CUG outgoing acces	ss not allowed				
Test Purpose	outgoing access not allow	Ensure that on receipt of an IAM the optional Forward call indicator is set to 'CUG with outgoing access not allowed' a REL message is sent the cause value is set to 29 and diagnostics indicating CUG without access is sent towards the originating exchange.				
ISUP Parameter values	IAM: Optional Forward Call indicator: CUG with outgoing access not allowed  REL: Cause value (if sent)  29  Diagnostics = CUG without access					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	REL #29	-				

## 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			
Test Purpose name	Precedence parame	eter received in IAM, discarded	d
Test Purpose		ipt of an IAM and a Precedend affecting the ongoing call set	ce parameter is present, this parameter up.
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/	·	·			
Selection criteria						
Test Purpose name	A REL cause #9 terminates	an early dialogue				
Test Purpose	Cause value is set to '9', a 0	Ensure that on receipt of a REL message in an early dialogue at the O-MGCF and the Cause value is set to '9', a CANCEL request is sent. A Reason header is contained in the CANCEL request and the cause value is set to '9'.				
ISUP Parameter values	REL: Cause = 9					
SIP Parameter values	CANCEL: Reason: Q.850 [	5]; cause=9				
Comments						
Message flows	ISUP	MGCF	Mg			
	A	A Session is already in early dialogue				
	REL →	<b>→</b>	CANCEL			
	RLC ←	<b>←</b>	200 OK CANCEL			
		<b>←</b>	487 Request Terminated			
		<b>→</b>	ACK .			

TP number	TP_314_003	Reference	7.4.17			
TSS reference	PSTN-SS/MLPP/					
Selection criteria						
Test Purpose name	A REL cause #8 terminates a	n early dialogue				
Test Purpose	Cause value is set to '8', a 4x	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]; car	l80: Reason: Q.850 [5]; cause=8				
Comments						
Message flows	Mg	MGCF		ISUP		
	A Session is already in early dialogue					
	4xx/5xx	<b>←</b>	← RE	EL		
	ACK	<b>→</b>	→ RL	_C		

TP number	TP_314_004	Reference	7.4.17	
TSS reference	PSTN-SS/MLPP/		·	
Selection criteria				
Test Purpose name	A REL cause #9 terminates a	confirmed dialogue		
Test Purpose	Ensure that on receipt of a RE set to '9', a BYE request is ser the cause value is set to '9'.			
ISUP Parameter values	REL: Cause = 9			
SIP Parameter values	BYE: Reason: Q.850 [5]; cause=9			
Comments				
Message flows	ISUP	MGCF	Mg	
	A Session is already established			
	REL →	<b>→</b>	BYE	
	RLC ←	<del>-</del>	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						
Test Purpose name	Forward GVNS parameter in IA	AM discarded				
Test Purpose	Ensure that on receipt of an IAI					
	GVNS parameter is discarded	without affect the ongoing car	i setup.			
ISUP Parameter values	IAM: Called party number	IAM: Called party number				
	Forward GVNS	Forward GVNS				
	Originating participating service provider					
	GVNS user group					
	Terminating network routing number					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	← 100 Trying					
		Apply post test routine				

# 6.2.16 Reverse charging (REV)

TP number	TP_316_001	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/1					
Test Purpose name	REV request from the calling u	ser at the call set-up time				
Test Purpose	a REVCallingReqSetup invoke	Ensure that on receipt of an IAM and a Remote Operation parameter is present containing a REVCallingReqSetup invoke component, the Remote Operation parameter is discarded without affect the ongoing call setup.				
ISUP Parameter values	IAM: Called party number Remote Operation REVCallingReqSetu transferRequest callingUserNum	ed = true				
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →		NVITE 00 Trying			

TP number	TP_316_002	Reference	7.4.20			
TSS reference	PSTN-SS/REV/	·	·			
Selection criteria	PICS 6.3.7/1					
Test Purpose name	REV request from the	e calling user during the active s	tate of the call			
Test Purpose	Remote Operation pa	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	REVCallin transfe	FAC: Remote Operation REVCallingReqActive invoke transferRequested = true callingUserNumber				
SIP Parameter values						
Comments						
Message flows	ISUP FAC	MGCF A confirmed dialogue is alre  → Apply post test ro	•			

TP number	TP 316 003	Reference	7.4.20
TSS reference	PSTN-SS/REV/		
Selection criteria	PICS 6.3.7/1		
Test Purpose name	REV request from the called user during the active state of the call		
Test Purpose	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	FAC: Remote Operation  REVCalledRequest invoke  transferRequested = true  calledUserNumber		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF A confirmed dialogue is alre  Apply post test ro	<b>F</b> FAC

TP number	TP_316_004	Refere	nce	7.4.20		
TSS reference	PSTN-SS/REV/	•				
Selection criteria	PICS 6.3.7/2					
Test Purpose name	REV request in IA	M explicit rejected				
Test Purpose	Ensure that on recontaining REVCa is supported, the S  ANM a Remonument seems	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:  • ANM a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork <b>OR</b> • REL a Remote Operation parameter containing a REVCallingReqSetup return error				
ISUP Parameter values	IAM: Called part Remote Op REVCa tran calli ANM: Remote Op REVCa reje REL: Cause 29 Remote Op REVCa	ry number peration illingReqSetup invok isferRequested = true ingUserNumber peration illingReqSetup return ctedByNetwork	e error	Se value is set to 25.		
SIP Parameter values Comments						
	ISUP		GCF	N/		
Message flows	IAM  CASE A  ACM ANM  CASE B  REL	<b>→</b> ← ←	→ ← ← y post test rout	Mg INVITE 180 Ringing 200 OK INVITE ACK ine		
	RLC	÷				

TP number	TP_316_00	)5	Reference	7.4.20			
TSS reference	PSTN-SS/F	REV/	•	<u>.</u>			
Selection criteria	PICS 6.3.7	/2					
Test Purpose name	REV reque	st in the active sta	te explicit rejected at th	ne O-MGCF			
Test Purpose	Ensure tha and a Rem component message a	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					
ISUP Parameter values	FAC: Ren	component set to rejectedByNetwork.  FAC: Remote Operation     REVCallingReqActive invoke     transferRequested = true     callingUserNumber  FRJ: Remote Operation     REVCallingReqActive return error					
		rejectedByNetwork					
SIP Parameter values							
Comments			•				
Message flows	FAC FRJ	UP A conf → ←	MGCF irmed dialogue is alre	Mg eady established			
			Apply post test ro	outine			

TP number	TP_316_006	Reference	7.4.20		
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 6.3.7/2				
Test Purpose name	REV request in the active state	e 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 transferRequest calledUserNumb FRJ: Remote Operation REVCalledRequest rejectedByNetwo	ed = true per return error			
SIP Parameter values					
Comments					
Message flows	Mg A confir	MGCF med dialogue is already esta ← 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	Reference	7.4.21.1.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.2/18					
Test Purpose name	User-to-user information recei	ved in an INVITE is sent in an	IAM			
Test Purpose	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: User-to-user Information	IAM: User-to-user Information				
	User Information					
SIP Parameter values	INVITE: User-to-User: <uuio< th=""><th>lata&gt;; encoding=hex</th><th></th></uuio<>	lata>; encoding=hex				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	<b>→</b>	IAM			
	100 Trying ←					
		Apply post test routine				

TP number	TP_317_002	Reference		7.4.21.1.2		
TSS reference	PSTN-SS/UUS/	·		•		
Selection criteria	PICS 6.3.2/18					
Test Purpose name	User-to-user information red	eived in a Cancel is sent	in a R	EL EL		
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 Informa User Information	tion				
SIP Parameter values	CANCEL: User-to-User: <u< th=""><th>uidata&gt;; encoding=hex</th><th></th><th></th></u<>	uidata>; encoding=hex				
Comments		<del>-</del>				
Message flows	Mg INVITE	MGCF →	<b>→</b>	ISUP IAM		
	CANCEL	<b>→</b>	<b>→</b>	REL		
	200 OK CANCEL 487 Request Terminated ACK	<b>←</b> <b>←</b> <b>→</b>	+	RLC		
		Apply post test rou	tine			

TP number	TP_317_003	Reference	7.4.21.1.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.2/18					
Test Purpose name	User-to-user information recei	ved 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	REL: User-to-user Information				
	User Information					
SIP Parameter values	BYE: User-to-User: <uuidata>; encoding=hex</uuidata>					
Comments						
Message flows	Mg MGCF ISUP					
	A confirmed dialogue is already established					
	BYE -	→	REL			
	200 OK BYE ←	· <b>←</b>	RLC			

TP number	TP_317_0	004	Reference		7.4.21.1.3	
TSS reference	PSTN-SS	/UUS/			·	
Selection criteria	PICS 6.3.	2/18				
Test Purpose name	User-to-us	ser information recei	ved in an IAM is sent i	n an IN	VITE	
Test Purpose	is sent an	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: <uuio< th=""><th>data&gt;; encoding=hex</th><th></th><th></th></uuio<>	data>; encoding=hex			
Comments						
Message flows	IS	SUP	MGCF		Mg	
	IAM	<b>→</b>		<b>→</b>	INVITE	
				<b>←</b>	100 Trying	
			Apply post test ro	utine		

TP number	TP_317_005	Reference	7.4.21.1.3		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.2/18				
Test Purpose name	User-to-user information received	ed in a REL is sent in a CAN	CEL		
Test Purpose	Ensure that on receipt of User- is confirmed, a CANCEL reque				
	uuidata parameter is derived fr the REL, the encoding parame		e User-to-user parameter of		
ISUP Parameter values	<b>REL:</b> User-to-user Informatio	n			
	User Information				
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		
	→ ACK				
		Apply post test routine			

TP number	TP_317_006	Reference	7.4.21.1.3			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.2/18					
Test Purpose name	User-to-user information received	ved 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 Informatio User Information	REL: User-to-user Information User Information				
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	NOT PICS 6.3.8/1					
Test Purpose name	User-to-user indicator service	1 'not essential' received in IA	M, discarded			
Test Purpose	Ensure that on receipt of an IA					
	is present the request is 'not e	ssential' the call setup is not d	isrupted.			
ISUP Parameter values	IAM: User-to-user Indicator					
	Request service 1					
	not essential	not essential				
	User-to-user Informatio	User-to-user Information				
	User Information					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>+</b>	200 OK INVITE			
		<b>→</b>	ACK			
		Apply post test routine				

TP number	TP_317_102	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.8/1					
Test Purpose name	User-to-user indicator se response in ACM or ANN		d in IAM, User-to-user indicator			
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 1 is present the request is 'not essential' the call setup is not disrupted A User-to-user indicator is sent in an ACM or ANM with a response for service 1 'not 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	TIOU TOVICE	<u> </u>				
Comments						
Message flows	ACM	MGCF → ←	Mg → INVITE ← 180 Ringing ← 200 OK INVITE → ACK			
		Apply post test rou	ine			

TP number	TP 317 103	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/	•				
Selection criteria	PICS 6.3.8/1					
Test Purpose name	User-to-user indicator	service 1 'essential' received	in IAM, call is rejected			
Test Purpose	Ensure that on receipt is present the request	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 1 is present the request is 'essential' the call setup is rejected. A REL is sent the Cause value is set to '29 ' the Diagnostics field contains the parameter name of the User-to-user				
ISUP Parameter values	Request set essentia User-to-user Inf User Inform	IAM: User-to-user Indicator Request service 1 essential User-to-user Information User Information REL: Cause indicator Cause 29				
SIP Parameter values		<del></del>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM REL RLC	→ ← →				

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

TP number	TP_317_201	Reference	7.4.21.2
TSS reference	PSTN-SS/UUS/		
Selection criteria	NOT PICS 6.3.8/1		
Test Purpose name	User-to-user indicator se	rvice 2 'not essential' recei	ived in IAM, discarded
Test Purpose		an IAM and a User-to-use 'not essential' the call setu	er indicator parameter for the service 2 p is not disrupted.
ISUP Parameter values	IAM: User-to-user Indic Request servion not essenti User-to-user Infor User Informati	ce 2 ial mation	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	Apply post test ro	→ INVITE ← 100 Trying  outline

TP number	TP_317_202	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.8/1					
Test Purpose name	User-to-user indicator service 2	2 'not essential' received in IAM	Л, User-to-user indicator			
	response in ACM or ANM 'not provided'					
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 es	ssential', the call setup is not d	isrupted A User-to-user			
	indicator is sent in an ACM or A	ANM with a response for servi	ce 2 'not provided'.			
ISUP Parameter values	IAM: User-to-user Indicator					
	Request service 2					
	not essential					
	User-to-user Information	n				
	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 <b>←</b>	<b>←</b>	200 OK INVITE			
		<b>→</b>	ACK			
		Apply post test routine				

TP number	TP_317_203	Reference	7.4.21.2	
TSS reference	PSTN-SS/UUS/			
Selection criteria	PICS 6.3.8/1			
Test Purpose name	User-to-user indicator service	2 'essential' received in IAM, c	all is rejected	
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 2 is present the request is 'essential', the call setup is rejected. A REL is sent the Cause value is set to '29' the Diagnostics field contains the parameter name of the User-to-user			
	indicator '42'.			
ISUP Parameter values	IAM: User-to-user Indicator Request service 2 essential User-to-user Information User Information FEL: Cause indicator Cause 29 Diagnostics 42			
SIP Parameter values				
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	Reference	7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.2/18 AND NOT PICS	6.3.8/1			
Test Purpose name	User-to-user indicator service 3	3 'not essential' received in IAI	M, discarded		
Test Purpose	Ensure that on receipt of an IA	M and a User-to-user indicato	r parameter for the service 3		
	is present the request is 'not es	ssential' the call setup is not di	isrupted.		
ISUP Parameter values	IAM: User-to-user Indicator				
	Request service 3				
	not essential				
	User-to-user Information				
	User Information				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_317_302	Reference	7.4.21.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.2/18 AND PICS	6.3.8/1			
Test Purpose name	User-to-user indicator ser response in ACM or ANM	vice 3 'not essential' received i 'not provided'	n IAM, User-to-user indicator		
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 3 is present the request is 'not essential', the call setup is not disrupted A User-to-user indicator is sent in an ACM or ANM with a response for service 3 'not provided'.				
ISUP Parameter values	IAM: User-to-user Indicator Request service 3 not essential User-to-user Information User Information ACM or ANM:				
	User-to-user Indicator Response service 3 not Provided				
SIP Parameter values		-			
Comments					
Message flows	ISUP IAM ACM ANM	<u>-</u>	Mg → INVITE ← 180 Ringing ← 200 OK INVITE → ACK		
		Apply post test routin	е		

TP number	TP_317_303	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.8/1					
Test Purpose name	User-to-user indicator service	e 3 'essential' received in IAM,	call is rejected			
Test Purpose	Ensure that on receipt of an I	AM and a User-to-user indicate	or parameter for the service 3			
	is present the request is 'esse	ential', the call setup is rejected	I. A REL is sent the Cause			
	value is set to '29' the Diagno indicator '42'.	ostics field contains the parame	ter name of the User-to-user			
ISUP Parameter values	IAM: User-to-user Indicator					
	Request service 3					
	essential					
	User-to-user Informati	on				
	User Information	User Information				
	REL: Cause indicator					
	Cause 29					
	Diagnostics 42					
SIP Parameter values						
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>←</b>	200 OK INVITE			
		<b>→</b>	ACK			
		Apply post test routine				

# 6.2.18 Anonymous Call rejection

TP number	TP_318_001	Reference	7.4.23	
TSS reference	PSTN-SS/ACR/			
Selection criteria				
Test Purpose name	Receipt of REL cause 24			
Test Purpose	Ensure that on receipt of an IS	SUP REL message cause #2	24 after the IAM was sent, a 433	
	(Anonymity Disallowed) final r	esponse is sent.		
ISUP Parameter values	REL: Cause = 24 (call rejecte	d due to ACR supplementar	y service)	
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b> →	• 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 43	33 (Anonymity Disallowed)	final response after an initial
	INVITE request was sent, an		
ISUP Parameter values	REL: Cause = 24 (call rejected	ed due to ACR supplement	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 6.3.3/1 AND PICS	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 sent					
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and				
	the From header does r	the From header does not contain an URI that encodes an E.164 [i.1] Address, an IAM is				
	sent.					
	A Calling party number SUT.	parameter is present and th	e address digits are provided by the			
ISUP Parameter values	IAM: Calling party No	umber				
		mplete indicator = Complete				
			hony (Recommendation E.164)'			
		dress Indicator				
			the CC of the country where MGCF is			
			de is located in the same country then			
	national (significant) number					
	else					
	international number					
	Screening indicator = Network Provided					
	Presentation restriction = restricted or allowed					
	Address signal provided by the Network					
	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"					
Sir raiailletei values	INVITE: P-Asserted-Identity: not present From: sip:unavailable@unknown.invalid					
Comments	1 Torri. Sip.uri	avallable @ driki lowi i.irivalid				
Message flows	Mg	MGCF	ISUP			
Incodage nows	INVITE	→	→ IAM			
	100 Trying	<del>-</del>	Z IMIVI			
	100 Hyllig	Apply post test ro	outine			
	Apply post test routine					

TP number	TP_401_002	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/1 AND F	PICS 6.3.3/1 AND PICS 6.3.3/4 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. Fi	INVITE received. From header not present, P-Asserted-Identity not present. Network				
	provided number is sent					
Test Purpose	Ensure that on rece	eipt 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 [i.1] Address, an IAM is				
	sent.					
			e address digits are provided by the			
			'presentation restricted by network'.			
ISUP Parameter values	IAM: Calling part					
		incomplete indicator = Complete				
		,	hony (Recommendation E.164)'			
		of Address Indicator	W 00 (#			
			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 = presentation restricted by network					
	Address signal <b>provided by the Network</b>					
	if NOA is " <i>national (significant) number</i> " then set to "NDC" + "SN"					
		OA is ' <i>international number</i> " then				
SIP Parameter values		ted-Identity: not present				
		p:unavailable@unknown.invalid				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
		Apply post test re	outine			

TP number	TP_401_003	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3/1 A	AND NOT PICS 6.3.3/2 AND PI	CS 6.3.2/1		
Test Purpose name	INVITE received. Fr number omitted	INVITE received. From header not present, P-Asserted-Identity not present. Calling party number omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header does not contain an URI that encodes an E.164 [i.1] Address, an IAM is sent.  A Calling party number parameter is not present.				
ISUP Parameter values	IAM: Calling party	Number not present			
SIP Parameter values		ed-Identity: not present o:unavailable@unknown.invalid			
Comments					
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test re	ISUP → IAM  Dutine		

TP number	TP_401_004	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/1 AND PICS 6.3.3/	2 AND PICS 6.3.3/3 AND PI	CS 6.3.2/1		
Test Purpose name	INVITE received. From header	not present, P-Asserted-Ide	ntity not present APRI is set to		
	'Address not available'				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the				
	From header does not contain	an URI that encodes an E.16	64 [i.1] Address, an IAM is		
	sent.				
	A Calling party number parame	•	· ·		
	Presentation restriction indicate	or is set to 'Address not avail	able'.		
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	<b>INVITE:</b> P-Asserted-Identity:	•			
	From: sip:unavailab	le@unknown.invalid			
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		From header present, P-Asserte	d-Identity not present. Network		
-	provided number	•	, .		
Test Purpose	Ensure that on re	ceipt of an INVITE request the P	-Asserted-Identity is not present and the		
-	From header con	tains an URI that encodes an E.1	64 [i.1] Address, an IAM is sent.		
	A Calling party no	umber parameter is present and t	he address digits are provided by the		
	SUT. An Addition	al calling Party number is sent in	a Generic number parameter and the		
	Address signals a	are derived from the Userpart of t	he From header.		
ISUP Parameter values	IAM: Calling pa	arty Number			
	Numbe	er incomplete indicator = Comple	te		
	Numbe	ering Plan Indicator = 'ISDN/Tele	phony (Recommendation E.164)'		
	Nature	of Address Indicator			
	If C	CC encoded in the URI is equal to	the CC of the country where MGCF is		
	loc	ated AND the next BICC/ISUP no	ode is located in the same country then		
		national (significant) number			
	els	e			
		international number			
		ning indicator = Network Provided			
	Presentation restriction = restricted or allowed				
	Address signal provided by the Network				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
	If NOA is 'international number" then set to "CC" + "NDC" + "SN"				
	Additional calling party number				
		e of Address Indicator			
			the CC of the country where MGCF is		
			ode is located in the same country then		
	national (significant) number else				
		-			
		ernational number			
		er incomplete indicator = Comple			
		ering Plan Indicator = 'ISDN/Tele			
		ntation restriction = restricted or a			
	Screening indicator = user provided not verified Address digits derived from the 'From' header				
		is digits <b>derived from the From</b> IOA is <i>national (significant) numb</i>			
		NOA is " <i>international number"</i> set			
SIP Parameter values		erted-Identity: not present	IU CC T NDC T SN		
Sir Farameter values		contains a URI that encodes an I	= 164 [i 1] address		
Comments	1 10111.	contains a Orti that encodes and	104 [i.1] address		
Message flows	Mg	MGCF	ISUP		
Incoogge Hows	INVITE	wiger →	→ IAM		
	100 Trying	<del>-</del>	✓ I∩IVI		
	100 Hyllig		routine		
L		Apply post test i	Outilie		

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	INVITE received. Fro	m header present, P-Asserted-I	dentity not present. Network			
	provided number is s	ent	•			
Test Purpose	From header contain: A Calling party numb SUT. The Presentatio An Additional calling Address signals are of restriction indicator is	s an URI that encodes an E.164 er parameter is present and the on restriction indicator is set to 'party number is sent in a Gener derived from the Userpart of the set to 'presentation allowed'.	address digits are provided by the presentation restricted by network'.			
ISUP Parameter values	IAM: Calling party	Number				
	Numbering Nature of A If CC e located nat		ony (Recommendation E.164)' e CC of the country where MGCF is e is located in the same country then			
	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"					
	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					
	eise international number					
	Number incomplete indicator = Complete					
	Numbering Plan Indicator = 'ISDN/Telephony ( <i>Recommendation E.164</i> )'					
	Presentation restriction = allowed					
	Screening indicator = user provided not verified					
	Address digits derived from the 'From' header					
		is national (significant) number				
SIP Parameter values		is "international number" set to	"CC" + "NDC" + "SN"			
SIP Parameter values		d-Identity: not present	CA [i 1] address			
Comments	From: con	tains a URI that encodes an E.1	04 [i. i] address			
Message flows	Mg	MGCF	ISUP			
messaye nows	INVITE	wiger →	→ IAM			
	100 Trying	<del></del>	Z IAWI			
	100 frying	Apply post test rou	ıtine			
		Apply post test for	AUTIG			

TP number	TP_401_007	Referer	ice	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OI	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3	NOT PICS 6.3.3/1 AND PICS 6.3.3/2 AND PICS 6.3.3/3 AND PICS 6.3.2/1				
Test Purpose name	INVITE received	d. From header present	P-Asserted-Identity	not present. Address digits		
	omitted					
Test Purpose				Identity is not present and the		
		ntains an URI that enco				
				s digits omitted. An Additional		
				and the Address signals are		
		Userpart of the From h	neader.			
ISUP Parameter values	IAM: Calling	•				
		per incomplete indicator				
		pering Plan Indicator = '				
		re of Address Indicator				
		ening indicator = Netwo				
		entation restriction = Ad				
		Address signal Address digits not present				
		Additional calling party number				
		re of Address Indicator				
				f the country where MGCF is		
				ted in the same country then		
		ational (significant) num	per			
		se				
		international number				
	Number incomplete indicator = Complete					
	Numbering Plan Indicator = 'ISDN/Telephony ( <i>Recommendation E.164</i> )'  Presentation restriction = restricted or allowed					
	Screening indicator = user provided not verified Address digits derived from the 'From' header					
	if NOA is national (significant) number then set to "NDC" + "SN"					
	If NOA is "international number" set to "CC" + "NDC" + "SN"					
SIP Parameter values		serted-Identity: not pres		1120 1 011		
		: contains a URI that er		address		
Comments	11011	. contains a orti that or	100000 an E. 10 1 [1.1]	address		
Message flows	Mg		MGCF	ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	100 Trying	É	•			
	1.00 mig	<del>=</del>	post test routine			
L		дрыу	poor toot routillo			

TP number	TP_401_008	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR	/			
Selection criteria	NOT PICS 6.3.3/	1 AND NOT PICS 6.3.3/2 AND PI	CS 6.3.3/5 AND PICS 6.3.2/1		
Test Purpose name	INVITE received. number omitted	INVITE received. From header present, P-Asserted-Identity not present. Calling party number omitted			
Test Purpose	From header con A Calling party nu	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 [i.1] Address, an IAM is sent. A Calling party number parameter is omitted. In addition, the Additional calling party number is omitted.			
ISUP Parameter values		IAM: Calling party Number not present Additional calling party number not present			
SIP Parameter values		INVITE: P-Asserted-Identity: not present From: contains a URI that encodes an E.164 [i.1] address			
Comments					
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test re	ISUP → IAM  putine		

TP number	TP_401_009	) R	eference	7.5.1, 7.2.3	3.1.2.6	
TSS reference	IMS-SS/OIP	-OIR/				
Selection criteria	PICS 6.3.2/1					
Test Purpose name	INVITE rece	ived. From header n	ot present, P-Asserte	d-Identity present F	Privacy not	
-	present		•			
Test Purpose	Ensure that	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 [i.1] Address a Privacy header is not present, an IAM is sent.				
	From heade					
	A Calling pa	A Calling party number parameter is present and the address digits are derived from the				
	P-Asserted-	P-Asserted-Identity header.				
ISUP Parameter values		ng party Number				
	N	umber incomplete in	dicator = Complete			
	Numbering Plan Indicator = 'ISDN/Telephony (Recommendation E.164)'				ion E.164)'	
	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					
					me country then	
		else				
		international nu				
		creening indicator =				
	-	Presentation restriction = allowed				
	A		d from the P-Assert		"ON I"	
	if NOA is "national (significant) number" then set to "NDC" + "SN"  If NOA is 'international number" then set to "CC" + "NDC" + "SN"					
OID Deservation and least	INDUTE: D			t to "CC" + "NDC" ·	+ "SN"	
SIP Parameter values		Asserted-Identity: p				
		om: sip:unavailable	@unknown.invalid			
Comments		rivacy not present				
	<del> </del>	1 ~	MGCF		ISUP	
Message flows	INVITE	⁄lg →	WIGCE	→ IAM	1507	
				→ IAM		
	100 Trying	+	Annly neet test	ina		
			Apply post test rout	ine		

TP number	TP 401 010	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/		,			
Selection criteria	PICS 6.3.2/1					
Test Purpose name	INVITE received. Fro	INVITE received. From header not present, P-Asserted-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 [i.1] 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 in Numberin Nature of If CC o locate na else int Screening Presentat Address s if NOA	y Number Incomplete indicator = Complet Ing Plan Indicator = 'ISDN/Telep Indicator Ind	the CC of the country where MGCF is de is located in the same country then serted-Identity			
SIP Parameter values	INVITE: P-Asserte	ed-Identity: present :unavailable@unknown.invalid				
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test re	ISUP → IAM  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					
Test Purpose name	INVITE received. From	m header not present, P-Ass	erted-Identity present, Privacy valu	ıe 'id'		
Test Purpose			-Asserted-Identity is present and the			
		from header does not contain an URI that encodes an E.164 [i.1] Address and a Privacy				
	header is present set					
		A Calling party number parameter is present and the address digits are derived from the				
			riction is set to 'presentation 'restri	cted'.		
ISUP Parameter values	IAM: Calling party					
		complete indicator = Comple				
			ohony (Recommendation E.164)'			
		Address Indicator				
			the CC of the country where MGC			
			ode is located in the same country	then		
		onal (significant) number				
	else					
		rnational number				
	J	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	II.		i set to CC + NDC + SN			
SIP Parameter values		l-Identity: present ınavailable@unknown.invalic	1			
	Privacy: id	inavallable@unknown.invalic				
Comments	Filivacy. iu					
Message flows	Mg	MGCF	ISUP			
Incodage Hows	INVITE	₩GCF <del>}</del>	→ IAM			
	100 Trying	<del></del>	<b>→</b> IAIVI			
	100 Hying	<del>-</del>	couting			
1		Apply post test i	Outilie			

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	INVITE received. F	INVITE received. From header not present, P-Asserted-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 [i.1] 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 par Number Number Nature of If CO locat n else ir Screenir Presenta Address if NO	ty Number incomplete indicator = Complete ing Plan Indicator = 'ISDN/Telep of Address Indicator c encoded in the URI is equal to	the CC of the country where MGCF is de is located in the same country then serted-Identity per" then set to "NDC" + "SN"			
SIP Parameter values	INVITE: P-Assert	ted-Identity: present p:unavailable@unknown.invalid				
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test re	ISUP → IAM  outline			

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	n header not present, P-Asse	erted-Identity present, Privacy value			
	'header'					
Test Purpose			Asserted-Identity is present and the			
			s an E.164 [i.1] Address and a Privacy			
		header is present set to 'header', an IAM is sent.				
			ne address digits are derived from the			
			iction is set to 'presentation 'restricted'.			
ISUP Parameter values	IAM: Calling party N					
		omplete indicator = Complet				
		Numbering Plan Indicator = 'ISDN/Telephony (Recommendation E.164)'				
	Nature of Address Indicator					
			the CC of the country where MGCF is			
			de is located in the same country then			
		onal (significant) number				
	else	national number				
		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"					
		s ' <i>international number"</i> then				
SIP Parameter values		Identity: present	100110 00 1 1100 1 011			
on raidingtor various		navailable@unknown.invalid				
	Privacy: hea					
Comments	1					
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
	, 3	Apply post test re	outine			

TP number	TP_401_014	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3/6 AND	PICS 6.3.2/1				
Test Purpose name			ed-Identity present. Privacy header not			
-		g party number not omitte				
Test Purpose			P-Asserted-Identity is present and the			
	From header contains an URI that encodes an E.164 [i.1] Address a Privacy header is not					
	present, an IAM is sent.					
			the address digits are derived from the			
	P-Asserted-Identity head	der the Presentation restr	iction indicator is set to 'presentation			
			nt in a Generic number parameter and			
			t of the From header the Presentation			
		t to 'presentation allowed				
ISUP Parameter values	IAM: Calling party Nu					
		nplete indicator = Comple				
			ephony (Recommendation E.164)'			
		Iress 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 = 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"					
			in set to CC + NDC + SN			
	Additional callin	lress Indicator				
			the CC of the country where MGCF is			
			ode is located in the same country then			
		significant) number	ode is located in the same country then			
	else	signineanty namber				
		nal number				
	Number incomplete indicator = Complete					
	Number incomplete indicator = 'ISDN/Telephony ( <i>Recommendation E.164</i> )'					
	Presentation restriction = allowed					
	Screening indicator = user provided not verified					
	Address digits derived from the 'From' header					
			ber then set to "NDC" + "SN"			
	If NOA is '	' <i>international number"</i> se	t to "CC" + "NDC" + "SN"			
SIP Parameter values		lentity: present				
	From: contain	s a URI that encodes an	E.164 [i.1] address			
	Privacy not pr	esent				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
1		Apply post test	routine			

TP number	TP_401_0	015	Refer	ence		7.5.1, 7.	2.3.1.2.6
TSS reference	IMS-SS/C	IMS-SS/OIP-OIR/					
Selection criteria		6.3.3/6 AND P	ICS 6.3.2/1				
Test Purpose name	INVITE re	ceived. From he	ader presei	nt, P-Asserted-	Identity	present. F	Privacy header
-		ditional calling p			,	•	•
Test Purpose							present and the
	From hea	der contains an	URI that en	codes an E.16	4 [i.1] A	ddress, ar	IAM is sent Privacy
	header is	present set to 'n	ione'.				
							e derived from the
							to 'presentation
							per parameter and
					f the Fro	om headei	the Presentation
		indicator is set		tion allowed'.			
ISUP Parameter values	IAM: Ca	Illing party Nun					
		Number incomp					
		Numbering Pla			ony (Re	ecommend	dation E.164)'
		Nature of Addre					
							try where MGCF is
					e is loca	ated 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"						
				<i>number"</i> then s			
	Δ.	Iditional calling			SELIO C	C + ND	O T SIN
		Nature of Addre					
					ne CC c	of the coun	try where MGCF is
							same country then
		national (sig			0 10 1000	2100 111 1110	dame dearning them
		else	grimount, ma				
		internationa	al number				
	Number incomplete indicator = Complete						
	Numbering Plan Indicator = 'ISDN/Telephony (Recommendation E.164)'						
	Presentation restriction = allowed						
	Screening indicator = user provided not verified						
	Address digits derived from the 'From' header						
		if NOA is na	ational (sign	ificant) numbei	then se	et to "NDC	" + "SN"
				number" set to	"CC" +	"NDC" +	"SN"
SIP Parameter values	INVITE:	P-Asserted-Ide			· · · · · ·		<u> </u>
	114 V I I L.						
	IIIVII L.	From: contains	a URI that	encodes an E.´	164 [i.1]	address	
A	IIIVII L.		a URI that	encodes an E.′	164 [i.1]	address	
Comments	IIIVII E.	From: contains Privacy: none	a URI that	encodes an E.´	164 [i.1]	address	
Comments Message flows	IIIVII L.	From: contains	a URI that	encodes an E. <sup>2</sup> MGCF	164 [i.1]	address	ISUP
	INVITE	From: contains Privacy: none	a URI that ∘		164 [i.1] →	IAM	ISUP
		From: contains Privacy: none					ISUP

TP number	TP_401_016	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria		/6 AND PICS 6.3.2/1				
Test Purpose name			erted-Identity present. Privacy header 'id',			
•		party number not omitted	, , , , , , , , , , , , , , , , , , , ,			
Test Purpose	Ensure that on re	eceipt of an INVITE request the	e P-Asserted-Identity is present and the			
	From header cor	ntains an URI that encodes an	E.164 [i.1] Address, an IAM is sent Privacy			
	header is presen	it set to 'id'.				
			nd the address digits are derived from the			
	P-Asserted-Iden	tity header the Presentation re	striction indicator is set to 'presentation			
			s sent in a Generic number parameter and			
			part of the From header the Presentation			
		tor is set to 'presentation restri	cted'.			
ISUP Parameter values		arty Number				
		er incomplete indicator = Com				
			elephony (Recommendation E.164)'			
		e of Address Indicator				
			al to the CC of the country where MGCF is			
	loc		node is located in the same country then			
	national (significant) number					
	else					
	international number					
	Screening indicator = Network Provided					
	Presentation restriction = restricted Address signal derived from the P-Asserted-Identity					
	if NOA is "national (significant) number" then set to "NDC" + "SN"					
			then set to "CC" + "NDC" + "SN"			
		al calling party number	THEIT SET TO CC + INDC + SIN			
		e of Address Indicator				
			al to the CC of the country where MGCF is			
			node is located in the same country then			
		itional (significant) number	node is located in the same country then			
	els					
		ternational number				
	Number incomplete indicator=Complete					
	Number indomplete indicator=complete  Numbering Plan Indicator='ISDN/Telephony (Recommendation E.164)'					
	Presentation restriction=restricted					
	Screening indicator=user provided not verified					
	Address digits derived from the 'From' header					
	1 fi	NOA is national (significant) nι	umber then set to "NDC" + "SN"			
	If !	NOA is "international number"	set to "CC" + "NDC" + "SN"			
SIP Parameter values	INVITE: P-Ass	erted-Identity: present				
		contains a URI that encodes a	an E.164 [i.1] address			
	Privac	cy: id				
Comments						
Message flows	Mg	MGCF	ISUP			
	9					
	INVITE	<b>→</b>	→ IAM			
	_	<b>→</b> ←	→ IAM			

TP number	TP_401_017	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/	•	· .				
Selection criteria		NOT PICS 6.3.3/6 AND PICS 6.3.2/1					
Test Purpose name			d-Identity present. Privacy header				
•		Illing party number not omitted	, ,				
Test Purpose			Asserted-Identity is present and the				
•	From header conta	ins an URI that encodes an E.1	64 [i.1] Address, an IAM is sent Privacy				
	header is present s						
	A Calling party nun	nber parameter is present and the	he address digits are derived from the				
	P-Asserted-Identity	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation					
	restricted'. An Addi	tional calling Party number is se	ent in a Generic number parameter and				
	the Address signals	s are derived from the Userpart	of the From header the Presentation				
	restriction indicator	is set to 'presentation restricted	J'.				
ISUP Parameter values	IAM: Calling par	ty Number					
I		incomplete indicator=Complete					
	Number	ing Plan Indicator=' <i>ISDN/Teleph</i>	nony (Recommendation E.164)'				
		of Address Indicator					
	If CC	encoded in the URI is equal to	the CC of the country where MGCF is				
			de is located in the same country then				
		ational (significant) number					
	else						
		nternational number					
		ng indicator = Network Provided					
		ation restriction = restricted	control Idontity				
		signal derived from the P-Ass					
		OA is "national (significant) numb					
		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	mar (eigrimearit) marriser					
		national number					
	Number	incomplete indicator = Complet	e				
			phony (Recommendation E.164)				
		ation restriction = restricted	,				
	Screenir	ng indicator = user provided not	verified				
	Address	digits derived from the 'From'	' header				
	if NC	A is national (significant) numb	er then set to "NDC" + "SN"				
	If NC	OA is "international number" set	to "CC" + "NDC" + "SN"				
SIP Parameter values		ted-Identity: present					
	From: co	ontains a URI that encodes an E	E.164 [i.1] address				
	Privacy:	user					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test r	outine				

TP number	TP_401_018   <b>Reference</b>   7.5.1, 7.2.3.1.2.6					
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1					
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header					
	'header', additional calling party number not omitted					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the					
	From header contains an URI that encodes an E.164 [i.1] Address, an IAM is sent Privacy					
	header is present set to 'header'.					
	A Calling party number parameter is present and the address digits are derived from the					
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation					
	restricted'. An Additional calling Party number is sent in a Generic number parameter and					
	the Address signals are derived from the Userpart of the From header the Presentation					
IOUD D	restriction indicator is set to 'presentation restricted'.					
ISUP Parameter values	IAM: Calling party Number					
	Number incomplete indicator = Complete					
	Numbering Plan Indicator = 'ISDN/Telephony (Recommendation E.164)'					
	Nature of Address Indicator					
	If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then					
	national (significant) number					
	else					
	international number					
	Screening indicator = Network Provided					
	Presentation restriction = restricted					
	Address signal derived from the P-Asserted-Identity					
	if NOA is "national (significant) number" then set to "NDC" + "SN"					
	If NOA is 'international number" then set to "CC" + "NDC" + "SN"					
	Additional calling party number  Nature of Address Indicator					
	If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then					
	national (significant) number					
	else					
	international number					
	Number incomplete indicator = Complete					
	Numbering Plan Indicator = 'ISDN/Telephony ( <i>Recommendation E.164</i> )'					
	Presentation restriction = restricted					
	Screening indicator = user provided not verified Address digits derived from the 'From' header					
	if NOA is <i>national (significant) number</i> then set to "NDC" + "SN"					
	If NOA is "international number" set to "CC" + "NDC" + "SN"					
SIP Parameter values	INVITE: P-Asserted-Identity: present					
C. I didiliotoi valuos	From: contains a URI that encodes an E.164 [i.1] address					
	Privacy: header					
Comments						
Message flows	Mg MGCF ISUP					
	INVITE → IAM					
	100 Trying ←					
	Apply post test routine					

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. Fro	om header present, P-Asserte	d-Identity present. Privacy header not				
	present, additional c	present, additional calling party number omitted					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the						
			64 [i.1] Address a Privacy header is not				
	present, an IAM is se						
			he address digits are derived from the				
			ction indicator is set to 'presentation				
		nal calling Party number paran	neter is not present.				
ISUP Parameter values	IAM: Calling party						
		ncomplete indicator = Comple					
			phony (Recommendation E.164)'				
		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 = allowed						
	Address signal derived from the P-Asserted-Identity						
	If NO	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"  INVITE: P-Asserted-Identity: present						
on rarameter values			= 16/1 [i 1] address				
	From: contains a URI that encodes an E.164 [i.1] address Privacy not present						
Comments	1 HVaoy H	ot procent					
Message flows	Mg	MGCF	ISUP				
	INVITE	→	→ IAM				
	100 Trying	<b>←</b>	2 17 1191				
	100 Hymig	Apply post test i	outine				
<u>l</u>	Apply post test routille						

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. Fro	INVITE received. From header present, P-Asserted-Identity present. Privacy header					
	'none', additional call	'none', additional calling party number omitted					
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the					
		From header contains an URI that encodes an E.164 [i.1] Address a Privacy header is set					
	to 'none', an IAM is se						
			e address digits are derived from the				
			on indicator is set to 'presentation				
		al calling Party number parame	eter is not present.				
ISUP Parameter values	IAM: Calling party						
		complete indicator = Complete					
			nony (Recommendation E.164)'				
		Address Indicator	1 00 (II ) 1 MOOF:				
			he CC of the country where MGCF is				
			le 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 'NDC' + 'SN'						
SIP Parameter values	INVITE: P-Asserted-Identity: present						
on randingtor variage	From: contains a URI that encodes an E.164 [i.1] address						
	Privacy: none						
Comments	1						
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test ro	utine				
L.	ı	LI 7 F					

TP number	TP_401_021	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1						
Test Purpose name	INVITE received.	From header present, P-Asserted	d-Identity present. Privacy header 'id',				
		party number omitted					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the						
			64 [i.1] Address a Privacy header is set				
	to 'id', an IAM is se						
			ne address digits are derived from the				
			tion indicator is set to 'presentation				
		ditional calling Party number para	meter is not present.				
ISUP Parameter values	IAM: Calling pa						
		r incomplete indicator = Complete					
			phony (Recommendation E.164)'				
		of Address Indicator	# 00 (#				
			the CC of the country where MGCF is				
			de is located in the same country then				
		national (significant) number					
		else					
	international number						
	Screening indicator = Network Provided						
	Presentation restriction = 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	INVITE: P-Asserted-Identity: present						
on rarameter values	From: contains a URI that encodes an E.164 [i.1] address						
	Privacy: id						
Comments	1 111469	. 10					
Message flows	Mg	MGCF	ISUP				
	INVITE	→	→ IAM				
	100 Trying	<del>-</del>	- 0.00				
	1.00 11,1119	Apply post test r	outine				
	Apply post test routine						

TP number	TP_401_022	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1					
Test Purpose name	INVITE receive	INVITE received. From header present, P-Asserted-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 From header contains an URI that encodes an E.164 [i.1] Address a Privacy header is 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 indicator is set to 'presentation					
	restricted'. An	Additional calling Party number para	meter is not present.			
ISUP Parameter values	restricted'. An Additional calling Party number parameter is not present.  IAM: Calling party Number  Number incomplete indicator = Complete Numbering Plan Indicator = 'ISDN/Telephony (Recommendation E.164)' Nature of Address Indicator  If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then national (significant) number else international number Screening indicator = Network Provided Presentation restriction = restricted Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is 'international number" then set to "CC" + "NDC" + "SN"					
SIP Parameter values	INVITE: P-Asserted-Identity: present From: contains a URI that encodes an E.164 [i.1] address Privacy: user					
Comments						
Message flows	INVITE 100 Trying	MGCF  →  ←  Apply post test re	ISUP → IAM  putine			

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. Fi	rom header present, P-Asserte	d-Identity present. Privacy header				
_		calling party number omitted	, ,				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header contains an URI that encodes an E.164 [i.1] Address a Privacy header is set to 'header', an IAM is sent.  A Calling party number parameter is present and the address digits are derived from the						
			ction indicator is set to 'presentation				
		tional calling Party number para					
ISUP Parameter values	IAM: Calling part	y Number	·				
	Number	incomplete indicator = Comple	te				
	Numberi	ng Plan Indicator = 'ISDN/Tele	phony (Recommendation E.164)'				
	Nature o	f Address Indicator					
			the CC of the country where MGCF is				
	locate	ed AND the next BICC/ISUP no	ode is located in the same country then				
	na	ational (significant) number					
	else	else					
	international number						
	Screening indicator = Network Provided						
	Presentation restriction = restricted						
	Address signal derived from the P-Asserted-Identity						
		A is "national (significant) num					
	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 [i.1] address						
	Privacy:	neader					
Comments	14	MOOF	IOUD				
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>4</b>					
	Apply post test routine						

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

TP number	TP_401_025	Re	eference	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 a E.164 URI is sent	number 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	ISUF	P	MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			+	100 Trying		
		1	Apply post test routine			

TP number	TP_401_026	Reference	7.5.1, 7.2.3.2.2.3				
TSS reference	IMS-SS/OIP-O	DIR/	,				
Selection criteria	PICS 6.3.2/1						
Test Purpose name		umber not received, Additional ca vailable From header is sent	lling party number received presentation				
Test Purpose	Ensure that on receipt of an IAM and no Calling party number and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to 'sip:unavailable@unknown.invalid'.						
ISUP Parameter values							
SIP Parameter values	INVITE: From: sip:unavailable@unknown.invalid 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 02	7	Reference		7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIF					
Selection criteria	PICS 6.3.2/	1				
Test Purpose name			presentation allowed neader and From header		onal calling party number not 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 not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'.					
ISUP Parameter values	IAM: Calli	ng party number p	resent presentation a	allowed		
	Gen	Generic number (Additional calling party number) not present				
SIP Parameter values	INVITE: From derived from the calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present					
Comments						
Message flows	ISUP MGCF Mg					
	IAM	<b>→</b>		<b>→</b>	INVITE	
	← 100 Trying					
			Apply post test r	outine		

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	0. ,	ed presentation allowed, Additio ed, P-Asserted-Identity header a	0 1 ,		
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	<b>.</b> .	r present presentation allowed ditional calling party number) pre	esent presentation allowed		
SIP Parameter values	INVITE: From derived from the additional calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	Apply post test routine				

TP number	TP 401 029	Reference		7.5.1, 7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR/			,
Selection criteria	PICS 6.3.2/1			
Test Purpose name		per received presentation allowe tion restricted, P-Asserted-Identi		
Test Purpose	indicator is set to '  the Presentation re A P-Asserted-Iden party number and	reipt of an IAM and a Calling par presentation allowed' and an Ad estriction indicator is set to 'pres- tity is present the URI is derived the URI of the From header is d er. A Privacy header is not pres-	ditional ca entation r I from the erived fro	alling party number is present estricted', an INVITE is sent. address signals of the calling m the address signals of the
ISUP Parameter values	<b>.</b>	ly number present presentation a mber (Additional calling party nu		esent presentation restricted
SIP Parameter values	INVITE: From de P-Asse	erived from the calling party num rted-Identity derived from the cal not 'id' or Privacy header not pro	nber Iling party	·
Comments		•		
Message flows	ISUP	MGCF		Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
		Apply post test r	outine	

TP number	TP_401_030	Reference	7.5.1, 7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR	2/	
Selection criteria	PICS 6.3.2/1		
Test Purpose name		nber received presentation rerted-Identity header and Fro	restricted, Additional calling party number not om header are sent
Test Purpose	indicator is set to present, an INVI address signals of	o 'presentation restricted' and TE is sent. A P-Asserted-Ide of the calling party number a	ng party number Presentation restriction d an Additional calling party number is not entity is present the URI is derived from the and the URI of the From header is set to eacy header is present the value is equal to
ISUP Parameter values		arty number present present number (Additional calling pa	
SIP Parameter values	INVITE: From:	sip:anonymous@anonymo erted-Identity derived from t	us.invalid
Comments			
Message flows	ISUP	MGC	F Mg
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post	test routine

TP number	TP_401_031	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			ted, Additional calling party number y header and From header are sent	
Test Purpose	indicator is set to 'pres present the Presentati sent. A P-Asserted-Identity party number and the	sentation restricted' and an A ion restriction indicator is set is present the URI is derived URI of the From header is d	rty number Presentation restriction Additional calling party number is t to 'presentation allowed', an INVITE d from the address signals of the callilerived from the address signals of the is present the value is equal to 'id'.	ng
ISUP Parameter values		umber present presentation er (Additional calling party nu	restricted umber) present presentation allowed	
SIP Parameter values	INVITE: From derive	ed from the additional calling Identity derived from the ca	party number	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	→	→ INVITE	
			<ul><li>100 Trying</li></ul>	
		Apply post test		

TP number	TP_401_032	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	0. ,	•	ed, Additional calling party number y header and From header are sent
Test Purpose	indicator is set to 'present the Present is sent. A P-Asserted-Ider party number and	presentation restricted' and an Anntation restriction indicator is set ntity is present the URI is derived the URI of the From header is set	to 'presentation restricted', an INVITE from the address signals of the calling
ISUP Parameter values		ty number present presentation re Imber (Additional calling party nui	estricted mber) present presentation restricted
SIP Parameter values	INVITE: From: s	sip:anonymous@anonymous.invarted-Identity derived from the call	ılid
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
			<ul><li>100 Trying</li></ul>
		Apply post test re	outine

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, Fro	m header is sent	-				
Test Purpose	Ensure that on receipt of an IAI						
	indicator is set to 'presentation	restricted by the network' and	an Additional calling party				
	number is not present, an INVI						
	URI of the From header is set t	to the value 'sip: unavailable @	hostportion'. A Privacy				
	header is not present or if prese	ent the value is not equal to 'id	J'.				
ISUP Parameter values		esent presentation restricted b					
		onal calling party number) not	present				
SIP Parameter values	<b>INVITE:</b> From: sip:unavailabl	le@hostportion					
		P-Asserted-Identity not present					
		ivacy header not present					
Comments	The 'hostportion' is implementa	ation dependent					
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
		<del>-</del>	100 Trying				
		Apply post test routine					

TP number	TP_401_0	)34	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			I presentation restricted by station allowed, From head	the network, Additional calling er is sent
Test Purpose	indicator in number is INVITE is derived fro	s set to 'presentation' present the Presen sent. A P-Asserted- om the address sign	n restricted by the network' tation restriction indicator is Identity is not present and	nber Presentation restriction and an Additional calling party s set to 'presentation allowed', an the URI of the From header is party number. A Privacy header
ISUP Parameter values			resent presentation restrictional calling party number)	ted by the network present presentation allowed
SIP Parameter values	INVITE:	P-Asserted-Identity	the additional calling party not present rivacy header not present	number
Comments		-		
Message flows		SUP	MGCF	Mg
	IAM	<b>→</b>		→ INVITE ← 100 Trying
			Apply post test routing	e

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	3.2/1			
Test Purpose name	Calling p	arty number receive	ed presentation restri	cted by the	e network, Additional calling
-	party nur	mber received pres	entation restricted, Fi	om heade	r is sent
Test Purpose	indicator number i an INVIT set to the	is set to 'presentati s present the Prese E is sent. A P-Asse	on restricted by the rentation restriction incerted-Identity is not plable @hostportion'. A	etwork' ar dicator is s esent and	er Presentation restriction and an Additional calling party et to 'presentation restricted', the URI of the From header is eader is not present or if
ISUP Parameter values			present presentation	restricted	by the network
	G	eneric number (Ade	ditional calling party r	number) pr	esent presentation restricted
SIP Parameter values	INVITE:	From: sip: unavai	lable@hostportion		
		P-Asserted-Ident	, .		
			Privacy header not p	resent	
Comments	The 'hos	tportion' is impleme	ntation dependent		
Message flows		ISUP	MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
			Apply post test	routine	

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

TP number	TP_402_001	Reference	7.5.2
TSS reference	IMS-SS/TIP-TIR/		
Selection criteria	PICS 6.3.2/25		
Test Purpose name	INVITE is sent the	e supported header contains the	option tag 'from-change'
Test Purpose	Optional Forward		ed Line Identity Request indicator in the to 'requested', an INVITE is sent and n-change'.
ISUP Parameter values	•	orward Call Indicators cted Line Identity Request = requ	uested
SIP Parameter values	INVITE: Suppo	rted: 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 6.3.2/25		
Test Purpose name	'from-change' tag no	t included in a received provis	sional response
Test Purpose		pt of a provisional response a soon as the 200 OK (INVITE)	nd the 'from-change' tag is not included is received.
ISUP Parameter values	IAM: Optional Forw Connected	vard Call Indicators d Line Identity Request = requ	uested
SIP Parameter values		d: from-change tag not included in the Suppo	rted header
Comments			
Message flows	ISUP IAM ACM ANM	MGCF  ← ← Apply post test	Mg → INVITE ← 180 Ringing ← 200 OK (INVITE) → ACK  routine

TP number	TP_402_003	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/	•	•				
Selection criteria	PICS 6.3.2/25						
Test Purpose name	'from-change' tag not	included in a received final re	esponse				
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 Forwa Connected	ard Call Indicators   Line Identity Request = requ	uested				
SIP Parameter values		: from-change ag not included in the Suppo	rted header				
Comments		•					
Message flows	ISUP	MGCF	Mg				
_	IAM	<b>→</b>	→ INVITE				
	ACM	<b>←</b>	← 180 Ringing				
	ANM ← 200 OK (INVITE)						
	→ ACK						
		Apply post test i	outine				

TP number	TP_402_0	04	Reference		7.5.2			
TSS reference	IMS-SS/TI	P-TIR/			·			
Selection criteria	PICS 6.3.2	2/25						
Test Purpose name			n a received provision					
Test Purpose					m-change' tag is included the			
	timer T <sub>TIR</sub>	timer T <sub>TIR1</sub> is started. The ANM is sent as soon as the UPDATE request is received and a						
					ditional connected number' is			
	1.		nected number is co	ded as follo	ws:			
		of Address Indica						
					re SUT is located AND the			
	nex		cated in the same co	ountry, then	set to			
		"national (signific	ant) number"					
	eis	e set to	البرم ع <i>ا</i> مه					
	Numbe	" <i>international nur</i> er Incomplete Indi						
				v) numberir	ng plan (Recommendation			
	E.164)		n = 10DN (Telephon	y) Harriberii	ig plan (Neconimendation			
	,		estricted Indicator =	Privacy VA	A as indicated in table 6.3.2-1			
			er provided, not veri					
		ss Signals	,					
			significant) number" t	hen set to N	NDC + SN.			
	If N	IOA is " <i>internati</i> or	nal number" then set	to CC + ND	OC + SN			
	In addition	a Connected nur	nber is present the a	iddress sign	al are derived from the			
		d-Identity in UPDA						
ISUP Parameter values	IAM: Op	tional Forward Ca						
			dentity Request = re	quested				
		nnected number						
OID D			ditional connected n	umber				
SIP Parameter values		Supported: from-						
Comments	180: 1101	n-change tag inci	uded in the Supporte	ed neader				
Message flows	IC	SUP	MGCF		Mg			
Wessage nows	IAM	→	WIGGI	<b>→</b>	INVITE			
	ACM	É		÷	180 Ringing			
	ACIVI	`	T <sub>TIR1</sub> started	<b>.</b>	200 OK (INVITE)			
			TIR1 Started	=	` '			
				<b>→</b>	ACK			
	ANM	<b>←</b>		<b>←</b>	UPDATE			
	MININI	~		<b>→</b>	200 OK (UPDATE)			
			Apply post tes	=	200 OR (UPDATE)			
	I		Apply post tes	Juille				

TP number	TP_402_005							
TSS reference	IMS-SS/TIP-TIR/							
Selection criteria	PICS 6.3.2/25							
Test Purpose name	'from-change' tag included in a received final response							
Test Purpose	Ensure that on receipt of a final successful response and the 'from-change' tag is included the timer $T_{TIR1}$ is started. The ANM is sent as soon as the UPDATE request in	is						
	received and a Generic number with a Number qualifier indicator set to 'additional connected number' is present. The additional connected number is coded as follows:  Nature of Address 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	connected number is present. The additional connected number is coded as follows:  Nature of Address Indicator  If CC is equal to the country code of the country where SUT is located AND the						
	"national (significant) number" else set to							
	"international number"							
	Number Incomplete Indicator = complete							
	Numbering Plan Indicator = ISDN (Telephony) numbering plan (Recommendation E.164)							
	Address Presentation Restricted Indicator = <b>Privacy_VA</b> as indicated in table 6.3.2	2-1						
	Screening Indicator = user provided, not verified	<b>Z</b> - I						
	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							
	P-Asserted-Identity in UPDATE request.							
ISUP Parameter values	IAM: Optional Forward Call Indicators							
	Connected Line Identity Request = requested  ANM: Connected number							
	Generic number - additional connected number							
SIP Parameter values	INVITE: Supported: from-change							
on runnite values	200: from-change tag included in the Supported header							
Comments								
Message flows	ISUP MGCF Mg							
	IAM → INVITE							
	ACM ← 180 Ringing							
	T <sub>TIR1</sub> started ← 200 OK (INVITE)							
	→ ACK							
	ANM ← UPDATE → 200 OK (UPDATE)							
	Apply post test routine							

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	ld	Presentation restricted
Privacy_VA_05	Privacy header not present	Presentation allowed

TP number	TP_402_006	Reference	7.5.2	
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.2/25			
Test Purpose name	Timer T <sub>TIR1</sub> expires			
Test Purpose	Ensure that on receipt of a 200 OK (INVITE) and the 'from-change' tag is present in the Supported header the timer $T_{TIR1}$ is started. After expiry of $T_{TIR1}$ the ANM is sent.			
ISUP Parameter values	IAM: Optional Forward Call Indicators  Connected Line Identity Request = requested  ANM: Connected number			
SIP Parameter values	<b>INVITE:</b> Supported: from-ch: 200: from-change tag includ	ange ed in the Supported header		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ACM ←	<del>-</del>	180 Ringing	
	-	Γ <sub>TIR1</sub> started ←	200 OK (INVITE)	
		<b>→</b>	ACK	
	ANM ←	T <sub>TIR1</sub> expired  Apply post test routine		

TP number	TP_402_007	Reference	7.5.2		
TSS reference	IMS-SS/TIP-TIR/	•	·		
Selection criteria	PICS 6.3.1/2 AND PICS 6.	3.2/2			
Test Purpose name	Interworking of SIP Suppo	rted header into Optional forwar	d 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	IAM: Optional Forward C Connected Line	all Indicators Identity Request = requested			
SIP Parameter values	<b>INVITE:</b> Supported: from	-change			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	·	IAM		
	100 Trying ←	100 Trying ←			
		Apply post test routine			

TP number	TP_402_008   Reference   7.5.2			
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.2/25			
Test Purpose name	Mapping of Additional connected number presentation allowed into the From header in an			
	UPDATE request			
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			
	Connected Line Identity Request = requested			
	ANM: Generic number additional connected number			
SIP Parameter values	Address Presentation restriction indicator = presentation allowed  INVITE: Supported: from-change			
Sir raiailletei values	200 OK: P-Asserted-Identity			
	Supported: from-change			
	UPDATE: From: <derived additional="" connected="" from="" number="" the=""></derived>			
Comments	of BATE. From: Nativod from the additional definedted framboly			
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	180 Ringing ← ← ACM			
	200 OK (INVITE) ← ← ANM			
	UPDATE <b>←</b>			
	200 OK (UPDATE) →			
	Apply post test routine			

TP number	TP_402_009			
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.2/25			
Test Purpose name	Mapping of Additional connected number presentation restricted into the From header in an UPDATE request			
Test Purpose	Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described below Generic number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used  "international number"  Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used  Address Presentation restriction indicator  presentation restricted then Privacy: header  Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used			
	The P-Asserted-Identity is derived from the Connected number as follows  Connected number  Nature of Address Indicator  "national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number  Address Signals then map to user portion of URI scheme used  "international number"  Map complete Connected Number Address Signals used prefixed with a "+" to 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.			
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=""> P-Asserted-Identity: <derived connected="" from="" number="" the=""></derived></derived>			
Comments	, i			
Message flows	Mg         MGCF         ISUP           INVITE         →         IAM           180 Ringing         ←         ACM           200 OK (INVITE)         ←         ANM   UPDATE 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 7.5.4.2.1.6 Table 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of 181 h	ni-targeted-to-uri into ACM Redirec	ction number
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:</li> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.</li> <li>If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number.</li> </ul>		
ISUP Parameter values	Addre	on number e of address indicator ess signal rived from the last History-Info ent	ry
SIP Parameter values	181:	<pre><sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any"></sip:any></sip:any></pre>	•
Comments			
Message flows	ISUP IAM ACM	MGCF → ←	Mg → INVITE ← 181 Call Is Being Forwarded
	7.0.01	Apply post test r	

TP number	TP_403_002	Referen	е	7.5.4.2.1
				Table 7.5.4.2.1.6
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.2/27			
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 Noti call is div			
SIP Parameter values		sip:any proper URI>; sip:any proper URI;ca		ex=1.1
Comments		· · · · · · · · · · · · · · · · · · ·	•	
Message flows	ISUP	MG	CF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded
		Apply	post test routin	ne

TP number	TP_403_003	Reference	7.5.4.2.1
			Table 7.5.4.2.1.6
			Table 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of 181 escaped Priva	acy header into ACM Redir	rection number restriction
Test Purpose	Ensure that on receipt of 181		
	The Redirection number restri	ction is set according the $\epsilon$	escaped Privacy header in the
	last History entry as indicated	in table 6.3.3-1.	
ISUP Parameter values	ACM: Redirection number res	triction = PRES_restr	
SIP Parameter values	181:		
	History-Info: <sip:any pro<="" th=""><th>per URI&gt;; index=1,</th><th></th></sip:any>	per URI>; index=1,	
	<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>	181 Call Is Being Forwarded
		Apply post test routing	ie -

TP number	TP_403_004	Reference	7.5.4.2.1	
			Table 7.5.4.2.1.6	
			Table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	·	<u>.</u>	
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of 181	Privacy header into ACM Re	edirection number restriction	
Test Purpose			Forwarded), an ACM is sent.	
	The Redirection	number restriction is set ac	cording the <b>Privacy header</b> as indicated in	
	table 6.3.3-1.			
ISUP Parameter values	ACM: Redirection	n number restriction = PRE	S_restr	
SIP Parameter values	181:			
	Privacy= <b>Priv</b>	Privacy= <b>Priv-value</b>		
	History-Info:	<sip:any proper="" uri="">; inde</sip:any>	ex=1,	
		<sip:any proper="" th="" uri;cause<=""><th>e=any value&gt;; index=1.1</th></sip:any>	e=any value>; index=1.1	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>	
		Apply pos	t 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
i F ilulibei	1P_403_005	Reference	_
			Table 7.5.4.2.1.6
			Table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name		der into ACM Notification su	
Test Purpose	Ensure that on receipt of 18	1 (Call Is Being Forwarded)	containing a Privacy header, an
	ACM is sent.		
	The Notification subscription	n options in the Call Diversion	n Information parameter is set
		er in the message body as in	
ISUP Parameter values	ACM: Call Diversion Inform	nation	
	Notification subs	cription options = SUBS_opt	ions
SIP Parameter values	181:		
	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri;cause="any" value="">; index=1,</sip:any>		
		proper URI>; index=1.1	,
Comments		•	
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ACM ←	<b>←</b>	181 Call Is Being Forwarded
		Apply post test routir	<u> </u>

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	Reference	7.5.4.2.1
			Table 7.5.4.2.1.6
			Table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of 181 escaped Priv	acy header into ACM 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-targ	eted-to-uri, an ACM is sent	
	The Notification subscription	options in the Call Diversion	n Information parameter is set
	according the escaped Privac	y header in the last History	entry as indicated in table 6.3.3-3.
ISUP Parameter values	ACM: Call Diversion Informa	tion	
	Notification subscr	ption options = SUBS_opt	ions
SIP Parameter values	181:		
	History-Info: <sip:any pro<="" th=""><th>oper URI &gt;; index=1,</th><th></th></sip:any>	oper URI >; index=1,	
	<sip:any pro<="" th=""><th>per URI;cause=any value?</th><th>Privacy=<b>Priv-value&gt;</b>; index=1.1</th></sip:any>	per URI;cause=any value?	Privacy= <b>Priv-value&gt;</b> ; index=1.1
Comments			
Message flows	ISUP	MGCF	Mg
-	IAM ->	<b>→</b>	INVITE
	ACM <b>←</b>	<b>←</b>	181 Call Is Being Forwarded
		Apply post test routing	•

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	Ref	erence	7.5.4.2.1
				Table 7.5.4.2.1.6
				Table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/			·
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of 181 l	ni-targeted-to-uri in	to ACM Redirecting	Reason
Test Purpose				an ACM is sent. The cause
				cting reason in the Call Diversion
	Information para	meter is set as indi	cated in table 6.3.3-	4.
ISUP Parameter values	ACM: Redirection	on number		
	Call Diver	sion Information		
	Redire	ecting reason = Re	directing_Reason	
SIP Parameter values	181:			
	History-Info:	<sip:any proper="" th="" u<=""><th>IRI&gt;; index=1,</th><th></th></sip:any>	IRI>; index=1,	
		<sip:any l<="" proper="" th=""><th>IRI;cause=CAUSE_</th><th>value&gt;; index=1.1</th></sip:any>	IRI;cause=CAUSE_	value>; index=1.1
Comments				
Message flows	ISUP		MGCF	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/			
Selection criteria	PICS 6.3.5/3 AND PIC	CS 6.3.2/27		
Test Purpose name	Mapping of 181 hi-targ	geted-to-uri cause parameter	into CPG Event indicator	
Test Purpose			ded) a CPG is sent. The Event indicator	
	is set to 'Redirecting_	Reason' as indicated in table	e 6.3.3-5.	
ISUP Parameter values	CPG: Event = Redirecting_Reason			
SIP Parameter values	181:			
		:any proper URI>; index=1,		
	<sip< th=""><th>:any proper URI;cause=CAU</th><th>SE_value&gt;; index=1.1</th></sip<>	:any proper URI;cause=CAU	SE_value>; index=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 6.3.3-5: 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 7.5.4.2.1.7 Table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of 181 hi-targe	eted-to-uri into CPG Redirection	number			
Test Purpose	<ul> <li>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:</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	CPG: Redirection num					
		ddress indicator				
	_	Address signal				
		from the last History-Info entry				
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<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 7.5.4.2.1.7		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Sending of Generic N	lotification 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 parameter. 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	→	→ INVITE		
	ACM	<b>←</b>	← 180 Ringing		
	CPG	<b>←</b>	← 181 Call Is Being Forwarded		
		Apply post to	est routine		

TP number	TP_403_010A	Reference	7.5.4.2.1		
			Table 7.5.4.2.1.7		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27 AND NOT P	PICS 6.3.5/3			
Test Purpose name	Sending of CPG Event indi	cator 'Progress'			
Test Purpose	Ensure that on receipt of 18	81 (Call Is Being Forwarded	) a CPG is sent. The History-Info		
	entry contains a cause para	ameter. The Event indicator	in the CPG is set to 'Progress'		
ISUP Parameter values	CPG: Event indicator				
	Progress				
SIP Parameter values	181:				
	History-Info: <sip:any< th=""><th>proper URI&gt;; index=1,</th><th></th></sip:any<>	proper URI>; index=1,			
	<sip:any< th=""><th>proper URI;cause=any&gt;; inc</th><th>dex=1.1</th></sip:any<>	proper URI;cause=any>; inc	dex=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	· -	INVITE		
	ACM ←	· <b>←</b>	180 Ringing		
	CPG ←	· <b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP 403 011	Reference	7.5.4.2.1		
			Table 7.5.4.2.1.7		
			Table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/	•	·		
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Redired	ction number restriction		
Test Purpose	Ensure that on receipt of 181 (				
	The Redirection number restric	ction is set according the es	caped Privacy header in the		
	last History entry as indicated	n table 6.3.3-1.			
ISUP Parameter values	CPG: Redirection number rest	riction = PRES_restr			
SIP Parameter values	181:				
	History-Info: <sip:any pro<="" th=""><th>per URI&gt;; index=1,</th><th></th></sip:any>	per URI>; index=1,			
	<sip:any privacy="Priv-value" proper="" uri;cause="any" value?="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b> Ⅱ	NVITE		
	ACM ←	<b>←</b> 1	80 Ringing		
	CPG ←	<b>←</b> 1	81 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP 403 012	Reference	7.5.4.2.1	
			Table 7.5.4.2.1.7	
			Table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	•	·	
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of 181 Privacy head	er into early CPG Redirection	on number restriction	
Test Purpose	Ensure that on receipt of 181			
	The Redirection number restr	ction is set according the P	rivacy 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 pro<="" th=""><th>per URI&gt;; index=1,</th><th></th></sip:any>	per URI>; index=1,		
	<sip:any pro<="" th=""><th>per URI;cause=any value&gt;</th><th>; index=1.1</th></sip:any>	per URI;cause=any value>	; index=1.1	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	ACM <b>←</b>	<b>←</b>	180 Ringing	
	CPG ←		181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP_403_013	Reference		7.5.4.2.1		
				Table 7.5.4.2.1.7		
				Table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of 181 F	Privacy header into CPG N	lotification subs	cription options		
Test Purpose	Ensure that on re	eceipt of 181 (Call Is Being	Forwarded) co	ntaining a Privacy header, a		
	CPG is sent.					
	The Notification s	subscription options in the	Call Diversion I	nformation parameter is set		
	according the Pri	vacy header in the messa	ge body as indic	cated in table 6.3.3-2.		
ISUP Parameter values	CPG: Call Diver	sion Information				
	Notific	ation subscription options	= SUBS_option	ns		
SIP Parameter values	181:					
	Privacy: <b>Priv</b> -	-value				
	History-Info:	<sip:any proper="" uri="">; inc</sip:any>	lex=1,			
	-	<sip:any proper="" th="" uri;caus<=""><th>e=any value&gt;; i</th><th>index=1.1</th></sip:any>	e=any value>; i	index=1.1		
Comments			-			
Message flows	ISUP	MGCF		Mg		
	IAM	<b>→</b>	<b>→</b> IN	NVITE		
	ACM	<b>←</b>	<b>←</b> 1	80 Ringing		
	CPG	<b>←</b>		81 Call Is Being Forwarded		
	Apply post test routine					

TP number	TP_403_014	Reference	e	7.5.4.2.1	
				Table 7.5.4.2.1.7	
				Table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name				ation subscription options	
Test Purpose	Ensure that on rece	eipt of 181 (Call Is Bei	ng Forwarded) co	ontaining an escaped Privacy	
		ast hi-targeted-to-uri,			
				Information parameter is set	
			the last History e	entry as indicated in table 6.3.3-3.	
ISUP Parameter values	CPG: Call Diversion Information				
	Notificati	on subscription option	ns = SUBS_optic	ons	
SIP Parameter values	181:				
	History-Info: <	sip:any proper URI>;	index=1,		
	<:	sip:any proper URI;ca	use=any value? F	Privacy= <b>Priv-value&gt;</b> ; index=1.1	
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	NVITE	
	ACM	<b>←</b>	<b>←</b> 1	80 Ringing	
	CPG	<b>←</b>	<b>←</b> 1	81 Call Is Being Forwarded	
	Apply post test routine				

TP number	TP_403_015	Reference	7.5.4.2.1		
			Table 7.5.4.2.1.7		
			Table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	·			
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 181 hi-targeted-to	-uri into CPG Redirecting	Reason		
Test Purpose			a CPG is sent. The History-Info		
			Redirecting reason in the Call		
	Diversion Information parame		ble 6.3.3-4.		
ISUP Parameter values	CPG: Call Diversion Informa				
	Redirecting reason	= Redirecting_Reason			
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	CPG ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_016	Ref	erence	7.5.4.2.1		
				Table 7.5.4.2.1.8		
				Table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of 180 h	ni-targeted-to-uri in	to ACM Redirection	number		
Test Purpose				criber free) is sent. The last		
				pped into the Redirection number:		
				code where the SUT is located:		
				nificant) number', '+' and the		
	country code Redirection		the digit string and s	sent in the Address signal of the		
	<ul> <li>If the country</li> </ul>	y code of the hi-tar	geted-to-uri is not e	qual the country code where the		
				to 'international number' '+' is		
		m the digit string a	nd sent in the Addre	ess signal of the Redirection		
		number.				
ISUP Parameter values	ACM: Backward call indicator					
		Called party status = subscriber free				
	Redirection number Nature of address indicator					
		Address signal				
		erived from the last	History-Info entry			
SIP Parameter values	180:	nived from the last	Thotory into orthy			
		<sip:any proper="" th="" u<=""><th>JRI&gt;: index=1.</th><th></th></sip:any>	JRI>: index=1.			
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>					
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	+	180 Ringing		
	Apply post test routine					

TP number	TP_403_017	Reference	7.5.4.2.1		
			Table 7.5.4.2.1.8		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Sending of Generic Notification	on in an ACM free			
Test Purpose	Ensure that on receipt of 180	(Ringing) an ACM (subscr	iber free) is sent. The last History-		
		parameter. A Generic Not	ification parameter is sent in the		
	ACM set to 'call is diverting'.				
ISUP Parameter values	ACM: Backward call indicate	or			
	Called party status	= subscriber free			
	Generic Notification				
	call is diverting				
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_403_018	Reference	e 7.5.4.2.1		
			Table 7.5.4.2.1.8		
			Table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/	•	·		
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 180	escaped Privacy header i	into ACM Redirection number restriction		
Test Purpose			an ACM (subscriber free) is sent.		
	The Redirection	number restriction is set a	according the escaped Privacy header in the		
	last History entry	as indicated in table 6.3.	3.3-1.		
ISUP Parameter values	ACM: Backward	ACM: Backward call indicator			
	Called	d party status = subscribe	er free		
	Redirection	on number restriction = Pl	PRES_restr		
SIP Parameter values	180:				
	History-Info:	<sip:any proper="" uri="">; ir</sip:any>	ndex=1,		
		<sip:any proper="" th="" uri;cau<=""><th>use=any?<i>Privacy=<b>Priv-value</b></i>&gt;; index=1.1</th></sip:any>	use=any? <i>Privacy=<b>Priv-value</b></i> >; index=1.1		
Comments					
Message flows	ISUP	MGC	CF Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 180 Ringing		
		Apply p	post test routine		

TP number	TP_403_019	Reference		7.5.4.2.1		
				Table 7.5.4.2.1.8		
				Table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of 180 Pri	vacy header into ACM Redire	ection n	umber restriction		
Test Purpose	Ensure that on rece	eipt of 180 (Ringing), an ACM	1 (subsc	criber free) is sent.		
	The Redirection nu	mber restriction is set accord	ling the	Privacy header as indicated in		
	table 6.3.3-1.					
ISUP Parameter values	ACM: Backward ca	ACM: Backward call indicator				
	Called p	Called party status = subscriber free				
	Redirection	number restriction = PRES_I	restr			
SIP Parameter values	180:	180:				
	Privacy= <b>Priv-v</b> a	Privacy= <b>Priv-value</b>				
	History-Info: <	sip:any proper URI>; index=	1,			
	<	sip:any proper URI;cause=ar	ny value	e>; index=1.1		
Comments						
Message flows	ISUP	MGCF		Mg		
_	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	Apply post test routine					

TP number	TP 403 020	Reference	7.5.4.2.1				
			Table 7.5.4.2.1.8				
			Table 7.5.4.2.1.4				
TSS reference	IMS-SS/CDIV/	•	·				
Selection criteria	PICS 6.3.2/27						
Test Purpose name	Mapping of 180 Privacy head	der into ACM Notification su	ubscription options				
Test Purpose	Ensure that on receipt of 180 free) is sent.	(Ringing) containing a Pri	vacy header, an ACM (subscriber				
	The Notification subscription according the <b>Privacy heads</b>		on Information parameter is set indicated in table 6.3.3-2.				
ISUP Parameter values	ACM: Backward call indicator						
	Called party status	Called party status = subscriber free					
	Call Diversion Information						
	Notification subscription options = SUBS_options						
SIP Parameter values	180:						
	Privacy: <b>Priv-value</b>						
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>						
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>						
Comments		-					
Message flows	ISUP	MGCF	Mg				
	IAM →	<b>→</b>	INVITE				
	ACM ←	<b>←</b>	180 Ringing				
	Apply post test routine						

TP number	TP 403 021	Reference	7.5.4.2.1		
Ti mamber	11 _403_021	Reference	Table 7.5.4.2.1.8		
			Table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 180 escaped Private	vacy header into ACM Notification	ation subscription options		
Test Purpose	Ensure that on receipt of 180	(Ringing) containing an esca	aped Privacy header field in the		
	last hi-targeted-to-uri, an AC	M (subscriber free) is sent.			
			Information parameter is set		
	according the escaped Priva				
	table 6.3.3-3.	in the last meters	only do maioated in		
ISUP Parameter values	ACM: Backward call indicate	or.			
150F Farameter values					
	Called party status = subscriber free				
	Call Diversion Information				
	Notification subscription options = SUBS_options				
SIP Parameter values	180:				
	History-Info: <sip:any pr<="" th=""><th>oper URI&gt;; index=1,</th><th></th></sip:any>	oper 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>	NVITE		
	ACM ←	<b>←</b>	180 Ringing		
	Apply post test routine				
	Apply post test routine				

TP number	TP_403_022	Reference	7.5.4.2.1			
			Table 7.5.4.2.1.8			
			Table 7.5.4.2.1.4			
TSS reference	IMS-SS/CDIV/	·				
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of 180 hi-	targeted-to-uri into ACM Redir	ecting Reason			
Test Purpose			(subscriber free) is sent. The last			
	History-Info entry of	containing a cause parameter i	s mapped into the Redirecting reason in			
	the Call Diversion	Information parameter is set a	s indicated in table 6.3.3-4.			
ISUP Parameter values	ACM: Backward of	call indicator				
	Called p	party status = subscriber free				
	Redirection	Redirection number				
	Call Diversion Information					
	Redirecting reason = Redirecting_Reason					
SIP Parameter values	180:					
	History-Info: <	<sip:any proper="" uri;cause="CA&lt;/th"><th>NUSE_value&gt;; index=1,</th></sip:any>	NUSE_value>; index=1,			
		<pre><sip:any proper="" uri="">; index=1</sip:any></pre>	.1			
Comments						
Message flows	ISUP	MGCF	Mg			
_	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 180 Ringing			
	Apply post test routine					

TP 403 023	Reference	7.5.4.2.1		
11 _ 100_020	110.0.0.00	Table 7.5.4.2.1.9		
		Table 7.5.4.2.1.2		
IMS-SS/CDIV/	1	1 2 2		
PICS 6.3.2/27				
Mapping of 180 hi-targ	geted-to-uri into CPG Redirec	tion number		
Ensure that on receipt	of 180 (Ringing) a CPG Alert	ing is sent. The last History-Info entry		
containing a cause pa	rameter is mapped into the R	edirection number:		
Nature of address	indicator is set to 'national (	significant) number', '+' and the		
		id sent in the Address signal of the		
SUT is located: N	ature of address indicator is s	et to 'international number' '+' is		
	e digit string and sent in the Ad	ddress signal of the Redirection		
	from the last history-into end	l y		
History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
<sip:any proper="" uri;cause="any">; Index=1.1</sip:any>				
ISUD	MCCE	Mq		
		→ INVITE		
	=	← 181 Call Is Being Forwarded		
		J		
UF G	Apply post test re	← 180 Ringing		
	PICS 6.3.2/27  Mapping of 180 hi-targ Ensure that on receipt containing a cause pa  If CC of the hi-targ Nature of address country code is re Redirection numb  If the country cod SUT is located: N removed from the number.  CPG: Event = Alertin Redirection num Nature of a Address si Derived  180: History-Info: <sip< td=""><td>IMS-SS/CDIV/ PICS 6.3.2/27  Mapping of 180 hi-targeted-to-uri into CPG Redirection that on receipt of 180 (Ringing) a CPG Alert containing a cause parameter is mapped into the Relation of the hi-targeted-to-uri is equal the count Nature of address indicator is set to 'national (country code is removed from the digit string and Redirection number.  If the country code of the hi-targeted-to-uri is not SUT is located: Nature of address indicator is some removed from the digit string and sent in the Adminishment.  CPG: Event = Alerting Redirection number Nature of address indicator Address signal Derived from the last History-Info entition:  180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;=""> ISUP MGCF IAM ACM CPG</sip:any></sip:any></td></sip<>	IMS-SS/CDIV/ PICS 6.3.2/27  Mapping of 180 hi-targeted-to-uri into CPG Redirection that on receipt of 180 (Ringing) a CPG Alert containing a cause parameter is mapped into the Relation of the hi-targeted-to-uri is equal the count Nature of address indicator is set to 'national (country code is removed from the digit string and Redirection number.  If the country code of the hi-targeted-to-uri is not SUT is located: Nature of address indicator is some removed from the digit string and sent in the Adminishment.  CPG: Event = Alerting Redirection number Nature of address indicator Address signal Derived from the last History-Info entition:  180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;=""> ISUP MGCF IAM ACM CPG</sip:any></sip:any>		

TP number	TP_403_024	Reference	7.5.4.2.1		
			Table 7.5.4.2.1.9		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Sending of Generic Notificatio	n in a CPG after 180			
Test Purpose	Ensure that on receipt of 180	(Ringing) a CPG Alerting is	s sent. The last History-Info entry		
	containing a cause parameter.	. The CPG contains the G	eneric Notification parameter set to		
	'call is diverting'.				
ISUP Parameter values	CPG:				
	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	MGCF	Mg		
	IAM →	→	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	CPG ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_403_024A	Reference	7.5.4.2.1			
			Table 7.5.4.2.1.9			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Sending of Event indicator 'A	lerting' in a CPG after 180	was received			
Test Purpose			is sent. The last History-Info entry e sent CPG is set to 'Alerting'			
ISUP Parameter values	CPG: Event = Alerting					
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	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 403 025	Reference	e	7.5.4.2.1	
	1			Table 7.5.4.2.1.9	
				Table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	<u>.</u>		•	
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 180	escaped Privacy header	into CPG Redi	rection number restriction	
Test Purpose	Ensure that on re	eceipt of 180 (Ringing), a	CPG Alerting	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	CPG:				
	Redirection	on number restriction = F	RES_restr		
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
		<sip:any proper="" th="" uri;ca<=""><th>use=any?<i>Priva</i></th><th>acy=<b>Priv-value</b>&gt;; index=1.1</th></sip:any>	use=any? <i>Priva</i>	acy= <b>Priv-value</b> >; index=1.1	
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	CPG	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

TP number	TP_403_026	Referen	nce	7.5.4.2.1	
				Table 7.5.4.2.1.9	
				Table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			·	
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 180 P	rivacy header into CP	G Redirection nu	Imber restriction	
Test Purpose	Ensure that on red	ceipt of 180 (Ringing),	a CPG Alerting	is sent.	
	The Redirection n	umber restriction is se	et according the I	Privacy header as indicated in	
	table 6.3.3-1.				
ISUP Parameter values	CPG:				
	Redirection	n number restriction =	PRES_restr		
SIP Parameter values	180:				
	Privacy= <b>Priv-value</b>				
	History-Info:	<sip:any proper="" uri="">;</sip:any>	; index=1,		
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MC	GCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	CPG	<b>←</b>	<b>←</b>	180 Ringing	
	Apply post test routine				

TP number	TP_403_027	Refere	nce	7.5.4.2.1	
				Table 7.5.4.2.1.9	
				Table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 180 F	Privacy header into CF	PG Notification su	ubscription options	
Test Purpose	Ensure that on resent.	eceipt of 180 (Ringing)	containing a Priv	vacy header, a CPG Alerting is	
				on Information parameter is set indicated in table 6.3.3-2.	
ISUP Parameter values	CPG:				
	Call Diver	sion Information			
	Notific	Notification subscription options = <b>SUBS_options</b>			
SIP Parameter values	180:	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	M	GCF	Mg	
	IAM	<b>→</b>	→	INVITE	
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	CPG	<del>(</del>	<b>←</b>	180 Ringing	
		Apply post test routine			

TP number	TP_403_028	Refe	rence	7.5.4.2.1	
				Table 7.5.4.2.1.9	
				Table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	•			
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 180 es	scaped Privacy he	ader into CPG Notif	ication subscription options	
Test Purpose	last hi-targeted-to-	uri, a CPG Alertin	g is sent.	scaped Privacy header field in the	
				on Information parameter is set ory entry as indicated in	
ISUP Parameter values	CPG:				
	Call Divers	Call Diversion Information			
	Notification subscription options = SUBS_options				
SIP Parameter values	180:				
	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>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	CPG	<b>←</b>	<b>←</b>	180 Ringing	
		Apply post test routine			

TP number	TP_403_029	Reference	!	7.5.4.2.1
				Table 7.5.4.2.1.9
				Table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of 180 hi	-targeted-to-uri into CPG	Redirecting I	Reason
Test Purpose				s sent. The last History-Info entry
				ecting reason in the Call Diversion
	Information param	neter is set as indicated in	n table 6.3.3-4	1.
ISUP Parameter values	CPG:			
	Call Divers	Call Diversion Information		
	Redirecting reason = <b>Redirecting_Reason</b>			
SIP Parameter values	180:			
	History-Info:	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
	CPG	<b>←</b>	<b>←</b>	180 Ringing
		Apply post test routine		

TP number	TP_403_030	Reference	7.5.4.2.1 Table 7.5.4.2.1.10		
T00 (	11 10 00 (00) //		Table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27	La companya de la com			
Test Purpose name	Mapping of 200 OK hi-targeted				
Test Purpose	<ul> <li>Ensure that on receipt of 200 OK (INVITE) an ANM is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number:</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</li> </ul>				
	number.	number.			
ISUP Parameter values	ANM: Redirection number				
	Nature of address indicator				
	Address signal				
		e last History-Info entry			
SIP Parameter values	200: History-Info: <sip:any <sip:any="" pro="" pro<="" th=""><th>per URI&gt;; index=1, p<b>per URI</b>;cause=any value</th><th>e&gt;; index=1.1</th></sip:any>	per URI>; index=1, p <b>per URI</b> ;cause=any value	e>; index=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	+	181 Call Is Being Forwarded		
	CPG ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK INVITE		
		<b>→</b>	ACK		
		Apply post test routi	ne		

TP number	TP_403_031	Reference	7.5.4.2.1	
			Table 7.5.4.2.1.10	
			Table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	•	•	
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of 200 esca	ped Privacy header into ANN	A Redirection number restriction	
Test Purpose	Ensure that on receip	t of 200 (INVITE), an ANM is	s sent.	
	The Redirection num	ber restriction is set accordir	g the <b>escaped Privacy header</b> in the	
	last History entry as i	ndicated in table 6.3.3-1.		
ISUP Parameter values	ANM: Redirection nu	mber restriction = PRES_res	str	
SIP Parameter values	200 OK:			
	History-Info: <si< th=""><th>o:any proper URI&gt;; index=1,</th><th></th></si<>	o:any proper 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>	→ 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 7.5.4.2.1.10	
			Table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	•		
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of 200 Privac	cy header into ANM Redired	ction number restriction	
Test Purpose	Ensure that on receipt	t of 200 OK (INVITE), an AN	IM is sent.	
	The Redirection numb	er restriction is set accordir	ng the <b>Privacy header</b> as indicated in	
	table 6.3.3-1.			
ISUP Parameter values	ANM: Redirection nur	mber restriction = PRES_res	str	
SIP Parameter values	200 OK:			
	Privacy= <b>Priv-valu</b>	e		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip< th=""><th>:any proper URI;cause=any</th><th>value&gt;; index=1.1</th></sip<>	:any proper URI;cause=any	value>; index=1.1	
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 INVITE	
			→ ACK	
		Apply post test routine		

TP number	TP_403_033	Reference	7.5.4.2.1			
			Table 7.5.4.2.1.10			
			Table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/	<u> </u>				
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of 200 OK	hi-targeted-to-uri into CON	Redirection number			
Test Purpose	<ul> <li>Ensure that on receipt of 200 OK (INVITE) a CON is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:</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	CON: Redirection number					
		Nature of address indicator				
	Address	•				
	Derived from the last History-Info entry					
SIP Parameter values	200 OK:		,			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
Comments	<pre><sip:any ;="" index="1.1&lt;/pre" proper="" uri;cause="any" value=""></sip:any></pre>					
Comments	IOLID	MOOF				
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
	CON	<del>(</del>	← 200 OK INVITE			
	→ ACK					
		Apply post te	st routine			

TP number	TP_403_034	Reference	7.5.4.2.1
			Table 7.5.4.2.1.10
			Table 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/	·	·
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of 200 escaped Pri	vacy header into CON Red	irection number restriction
Test Purpose	Ensure that on receipt of 200	(INVITE), a CON is sent.	
	The Redirection number res	triction is set according the	escaped Privacy header in the
	last History entry as indicate	d in table 6.3.3-1.	
ISUP Parameter values	CON: Redirection number re	estriction = PRES_restr	
SIP Parameter values	200 OK:		
	History-Info: <sip:any p<="" th=""><th>roper URI&gt;; index=1,</th><th></th></sip:any>	roper URI>; index=1,	
	<sip:any p<="" th=""><th>roper URI;cause=any value</th><th>?Privacy=<b>Priv-value</b>&gt;; index=1.1</th></sip:any>	roper URI;cause=any value	?Privacy= <b>Priv-value</b> >; index=1.1
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 7.5.4.2.1.10		
			Table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/	<u> </u>	<u> </u>		
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of 200 I	Privacy header into CON Re-	direction number restriction		
Test Purpose	Ensure that on re	eceipt of 200 OK (INVITE), a	CON is sent.		
	The Redirection	number restriction is set acc	ording the <b>Privacy header</b> as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	CON: Redirectio	n number restriction = <b>PRES</b>	5_restr		
SIP Parameter values	200 OK:				
	Privacy= <b>Priv</b>	-value			
	History-Info:	<sip:any proper="" uri="">; inde:</sip:any>	x=1,		
	<sip:any 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		
			→ 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 6.3.2/27			
Test Purpose name	Mapping of Redirecting numbe	r Address signals into History	Info header URI	
Test Purpose	Ensure that on receipt of an IAI	M containing a Redirecting nu	mber parameter, an Original	
	called number parameter and a			
	sent and a History-Info header			
	Value of Redirecting number	is mapped from the Redirecti	ng number Address Signals as	
	indicated in table 6.3.3-6.			
ISUP Parameter values	IAM: Redirecting number			
	Nature of Address: N	NoA_value		
	Address Signals <any appropriate="" value=""></any>			
	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:value number;cause="any" of="" redirecting="">; index=1.1</sip:value></pre>			
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>			
Comments		-		
Message flows	ISUP	MGCF	Mg	
	IAM ->	→ INV	'ITE	
	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 6.3.2/27			
Test Purpose name	Mapping of Redirecting number Address presentation restricted into History-Info header Privacy value			
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting, an Original called number parameter 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_value is mapped from the Address presentation restricted indicator of the Redirecting number as indicated in table 6.2.5-7.			
ISUP Parameter values	IAM: Redirecting number     Address presentation restricted indicator: APRI_value     Redirection Information     Redirection counter = 2     Original called number			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip: any="" proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1     <sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:></sip:></sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE 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_C	)1	presentation restricted	history
VA_C	)2	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 6.3.2/27			
Test Purpose name	Mapping of Redirection Informa	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 <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:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

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

	RDIND_value	PRIV_value second last hi-targeted-to-uri
VA_01	Call diverted, all redirection info presentation restricted	history
VA_02	Call diverted	none

TP number	TP_403_039	Reference	7.5.4.2.2
			Table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of Redirectio	n Information Redirection coun	ter
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 Info Redirection	ormation counter = <b>RDCONT_value</b>	
SIP Parameter values	INVITE: History-Info: HI-E	NTRY_values	
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b> -	<b>→</b> 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:>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1</sip:>

TP number	TP_403_040	Reference	7.5.4.2.2	
			Table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27	PICS 6.3.2/27		
Test Purpose name	Mapping of Redired	ction Information Original redirec	tion reason	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Original redirection reason indicator <b>'unknown'</b> of the Redirection Information is mapped into the cause parameter <b>'404'</b> of the second hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-10.			
ISUP Parameter values	IAM: Redirection Information  Redirection counter = 2  Original redirection reason = 'unknown'			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
_	IAM   Apply post test routine			

**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 6.3.2/27			
Test Purpose name	Mapping of Redir	ection Information Redirecting reas	son	
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 6.3.2/27			
Test Purpose name	Mapping of Called p	arty number Address Signals		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The Called party number is mapped into the last hi-targeted-to-uri of the History-Info header as indicated in table 6.3.3-12.			
ISUP Parameter values	IAM: Called party number Nature of Address: NoA_value Address Signals			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

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

	NoA_value	Value of Called party number	
		last hi-targeted-to-uri	
VA_01	national (significant) number	of (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 6.3.2/27			
Test Purpose name	Mapping of Original called nu	mber Address Signals		
Test Purpose		AM containing an Original called		
		neter, an INVITE request is sen		
		hi-targeted-to-uri Value of Original		
	mapped from the Original call	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:			
		<b>of Original called number&gt;</b> ; in		
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

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

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

TP number	TP_403_044	Reference	7.5.4.2.2		
			Table 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name		mber Address presentation res			
Test Purpose		AM containing an Original calle			
	INVITE request is sent and a	History-Info header is present.	A Privacy header escaped in		
		the PRIV_value is mapped fro			
	restricted indicator of the Orig	inal called number as indicated	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:				
		per URI?Privacy=PRIV_value			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	Apply post test routine				

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

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

TP number	TP_403_045	Reference	7.5.4.3		
			Table 7.5.4.3.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Second latest History-Info hea	der field entry mapped into Re	edirecting number Nature of		
	address indicator		-		
Test Purpose	Ensure that on receipt of an IN sent and a Redirecting number	NVITE request containing a His er an Original called number ar			
	parameter is present. The Nat				
	mapped from the hi-targeted-t	o-uri in hi-entry before last hi-e	entry containing a cause-		
	param URI parameter as indic	ated in table 6.3.3-15.			
ISUP Parameter values	IAM: Redirecting number				
	Nature of address i	ndicator = <b>NoA_value</b>			
SIP Parameter values	INVITE:				
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>				
		d last entry URI;cause=any>;			
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>				
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	Reference	7.5.4.3	
			Table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Second latest History-Info header field entry is mapped into Redirecting number Address signal			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address signal</b> of the Redirecting number is mapped from the hi-targeted-to-uri in hi-entry before last hi-entry containing a cause-param URI parameter in the format +'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         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←			
	Apply post test routine			

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

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

TP number	TP_403_047	Reference	7.5.4.3		
	_		Table 7.5.4.3.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Second latest History-Info header escaped Privacy header is mapped into Redirecting number Address presentation restricted indicator				
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Redirecting number is mapped from the escaped Privacy header of the second latest History-Info header field entry containing a cause parameter as indicated in table 6.3.3-17.				
ISUP Parameter values	IAM: Redirecting number Address presentation restricted indicator = APRI_value				
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,     <sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></sip:any></sip:any>				
Comments					
Message flows	Mg         MGCF         ISUP           INVITE         →         IAM           100 Trying         ←				
	Apply post test routine				

TP number	TP_403_048	Reference	7.5.4.3		
			Table 7.5.4.3.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Privacy header is mapped into Redirecting number Address presentation restricted indicator				
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Redirecting number is mapped from the 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="">; i <sip:any proper="" th="" uri;ca<=""><th>ndex=1,</th><th></th></sip:any></sip:any>	ndex=1,			
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 6.3.2/27				
Test Purpose name	Escaped Privacy header is ma	pped into Redirection informa	tion 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 an	d a Redirection information		
	parameter is present. The Red	irecting indicator of the Red	irection information is		
	mapped from the escaped Priv	acy header of the second last	History-Info header field		
	entry and last History-Info head	der field in the received INVIT	E request as indicated in		
	table 6.3.3-18.				
ISUP Parameter values	IAM: Redirection information				
	Redirecting indicato	r = RDIND_value			
SIP Parameter values	INVITE:				
	History-Info:				
	<sip:any proper="" uri="">; i</sip:any>	•			
		use=any?Privacy= <b>PRIV_valu</b> e			
	<sip:any proper="" uri;cause="any?Privacy=&lt;b">PRIV_value&gt;; index=1.1.1</sip:any>				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				

TP number	TP 403 050	Reference	7.5.4.3		
			Table 7.5.4.3.3		
TSS reference	IMS-SS/CDIV/		1		
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Privacy header is mapped into	Redirection information Redir	ecting indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, 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: <b>PRIV_value</b>				
	History-Info:				
	<sip:any proper="" uri="">; i</sip:any>	· · · · · · · · · · · · · · · · · · ·			
	<sip:any proper="" th="" uri;ca<=""><th>The state of the s</th><th></th></sip:any>	The state of the s			
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
100 Trying ←					
	Apply post test routine				

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

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

TP number	TP_403_051	Reference	7.5.4.3
			Table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	'cause' parameter is mapped i	nto Redirection information Re	edirecting reason
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting reason</b> of the Redirection information is mapped from the cause parameter of the latest History-Info header field entry containing a cause parameter in the received INVITE request as indicated in table 6.3.3-19.		
ISUP Parameter values	IAM: Redirection information Original redirection reason = unknown/not available Redirecting reason = REAS_value		
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	MGCF	ISUP
	INVITE → 100 Trying ←		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	Refer	ence	7.5.4.3
				Table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Hi-index is mapp	ed into Redirection i	nformation Redired	tion 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 Redirection	on information ection counter = <b>RD</b> (	CONT_value	
SIP Parameter values	INVITE: History-Info:	ENTRY_values		
Comments				
Message flows	Mg INVITE 100 Trying	<b>→</b> <b>←</b> App	MGCF  ly post test routin	ISUP → IAM

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

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

TP number	TP_403_053	Reference	7.5.4.3
			Table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	First History-Info header field entry is mapped into Original called number Nature of		
	address indicator		
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting number		
	parameter is present. The Nat		
	from the first History-Info head	er field entry in the format +'C	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)
		ndicator = <b>NoA_value</b>	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" uri="">; i</sip:first>	ndex=1,	
	<sip:any proper="" th="" uri;ca<=""><th>use=any&gt;; index=1.1</th><th></th></sip:any>	use=any>; index=1.1	
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 6.3.2/27		
Test Purpose name	First History-Info header field	entry is mapped into Original c	alled 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)  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 ←		ISUP IAM
		Apply post test routine	

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

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

TP number	TP_403_055	Reference	7.5.4.3
			Table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	First History-Info header field	entry escaped Privacy header	is mapped into Original
	called number Address preser	tation restricted indicator	
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting numbe		
	parameter is present. The Add		
	called number is mapped from		of the first History-Info header
	field entry as indicated in table	6.3.3-23.	
ISUP Parameter values	IAM: Original called		
	Address presentation restricted indicator = <b>APRI_value</b>		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" th="" uri?p<=""><th>rivacy=PRIV_value&gt;; index=1</th><th>,</th></sip:first>	rivacy=PRIV_value>; index=1	,
	<sip:any proper="" th="" uri;ca<=""><th>use=any&gt;; index=1.1</th><th></th></sip:any>	use=any>; index=1.1	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE ->	<b>→</b>	IAM
	100 Trying ←		
		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 6.3.2/27		
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	on restricted indicator = APRI_	value
SIP Parameter values INVITE:			
	Privacy: <b>PRIV_value</b>		
	History-Info:		
	<sip:first entry="" uri="">; i</sip:first>	•	
	<sip:any proper="" th="" uri;ca<=""><th>use=any&gt;; index=1.1</th><th></th></sip:any>	use=any>; index=1.1	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	Apply post test routine		

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

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

TP number	TP_403_057	Reference	7.5.4.3	
			Table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of ACM Redirection n	number into 181 (Being forwar	ded) History-Info header	
Test Purpose	Ensure that on receipt of an AC	CM a Redirection number and	the Call diversion parameter	
	is present as an indication a ca			
	The Redirection number is ma	pped into the hi-targeted-to-ur	i in a History-Info header	
	containing one hi-entry in the s	sent 181 as indicated in table 6	6.3.3-24.	
ISUP Parameter values	ACM: Backward call indicator			
	Called party statue = 'no indication'			
	Generic notification = call is diverting			
	Call diversion information			
	Redirection number			
	Nature of address indicator = NOA_value			
	Address signal <b>Digits</b>			
SIP Parameter values	181: History-Info: sip: LAS	T_HIST_URI;cause=any>; ind	ex=1	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	181 Being forwarded ← ← ACM			
	Apply post test routine			

Table 6.3.3-24: Mapping Redirection number into History-Info header

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

TP number	TP_403_058	Reference	7.5.4.3
			Table 7.5.4.3.8
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of ACM Redirecting cause parameter	g reason into 181 (Being forwa	rded) History-Info header
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 hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25.		
ISUP Parameter values	ACM: Backward call indicator  Called party statue = 'no indication'  Generic notification = call is diverting  Redirection number  Call diversion information  Redirecting reason = REAS_value		
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=CAUSE _value>; index=1		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b> →	IAM
	181 Being forwarded	<b>← ←</b>	ACM
	Apply post test routine		

Table 6.3.3-25: Mapping of Redirecting reason into cause parameter

CAUSE	Redirecting_Reason REAS_value	Cause parameter, CAUSE_value
VA_01	unknown	404
VA_02	unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	487
VA_06	Deflection immediate response	480
VA_07	Mobile subscriber not reachable	503

Ten	TD 400 050	In description	7540	
TP number	TP_403_059	Reference	7.5.4.3	
			Table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of ACM Notific	cation subscription options no	o 181 (Being forwarded) is sent	
Test Purpose	Ensure that on receipt	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter		
	is present as an indicat	tion a call diversion occurred,	if the Call diversion information	
	Notification subscription	n options is set to presentati	on not allowed no 181 (Being	
	forwarded) is sent.			
ISUP Parameter values	ACM:			
	Generic notification = call is diverting			
	Redirection number			
	Call diversion information			
	Notification subscription options = presentation not allowed			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
			← 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/		
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of ACM Notification s Privacy header	subscription options into 181 (E	Being 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 escaped Privacy header of the hi-targeted-to-uri in a History-Info header in the sent 181 is set to 'history'. On receipt of an ISUP ANM message is received, a 200 OK INVITE is sent and a History-Info header may be present. If present an escaped Privacy header is present the value is set 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=history>; index=1 200 OK     History-Info: sip: LAST_HIST_URI;cause=any?Privacy=PRIV_value>; index=1		
Comments			
Message flows	Mg INVITE 181 Being forwarded 180 Ringing 200 OK INVITE ACK	<b>← ←</b>	ISUP IAM ACM CPG(Alerting) ANM

Table 6.3.3-26: Mapping of Notification subscription options into Privacy header

CAUSE	NSO_value	PRIV_value
VA_01	presentation allowed with redirection number	Header not present or 'none'
VA_02	presentation allowed without redirection number	'history'

TP number	TP 403 061	Reference	7.5.4.3
	1		Table 7.5.4.3.9
TSS reference	IMS-SS/CDIV/		13.000
Selection criteria	PICS 6.3.2/27		
Test Purpose name	Mapping of CPG Redire	ction number into 181 (Be	ing forwarded) History-Info header
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Redirection number is mapped into the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-24.		
ISUP Parameter values	CPG: Event = Progress  Generic notification = call is diverting Call diversion information Redirection number Nature of address indicator = NOA_value Address signal Digits		
SIP Parameter values	181: History-Info: <sip:last_hist_uri;cause=any>; index=1</sip:last_hist_uri;cause=any>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	180 Ringing	<b>←</b>	← 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 6.3.2/27		
Test Purpose name	Mapping of CPG Redirecting r	eason into 181 (Being forward	ed) History-Info header
	cause parameter		
Test Purpose	Ensure that on receipt of a CP		
	number and the Call diversion		
	occurred, a 181 (Being forward		
	reason is mapped into the cau		ed-to-uri in a History-Info
	header in the sent 181 as indic	cated in table 6.3.3-25.	
ISUP Parameter values	CPG: Event = Progress		
	Generic notification = call is diverting		
	Redirection number		
	Call diversion information		
	Redirecting reason = <b>REAS_value</b>		
SIP Parameter values	181:		
	History-Info:		
	<sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index=1</sip:derived>		
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 403 063	Reference	7.5.4.3	
			Table 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/	1	-	
Selection criteria	PICS 6.3.2/27			
Test Purpose name	Mapping of CPG Notifi forwarded) is sent	Mapping of CPG Notification subscription options presentation not allowed no 181 (Being forwarded) is sent		
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	MGC	F ISUP	
-	INVITE 180 Ringing	<b>→</b> <b>←</b>	→ 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 6.3.2/27					
Test Purpose name	Mapping of CPG Privacy header	Notification s	ubscription options i	into 181 (E	Being forwarded) escaped	
Test Purpose	Ensure that on re number and the occurred, a 181 to-uri in a History ANM message is	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 escaped Privacy header of the hi-targeted-to-uri in a History-Info header in the sent 181 is set to 'history'. On receipt of an ISUP ANM message is received, a 200 OK INVITE is sent and a History-Info header may be present. If present an escaped Privacy header is present the value is set as indicated in				
ISUP Parameter values	Generic r Redirection Call diver	CPG: Event = Progress Generic notification = call is diverting Redirection number Call diversion information Notification subscription options = NSO_value				
SIP Parameter values	200 OK	181: History-Info: <sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any>				
Comments		-				
Message flows	INVITE 180 Ringing 181 Being forwal 180 Ringing 200 OK INVITE ACK	rded +		÷ ÷ ÷	ISUP IAM ACM CPG CPG(Alerting) ANM	

TP number	TP 403 065	Reference	7.5.4.3		
			Table 7.5.4.3.8		
			Table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of a CPG Alerting Re URI parameter	direction number into 180 (F	Ringing) History-Info header		
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Redirection number Address signal digits are mapped into the hi-targeted-to-uri in a History-Info header in the sent 180 (Ringing) as indicated in table 6.3.3-24.				
ISUP Parameter values	ACM: Call diversion informati- Redirection number CPG: Event indicator = Alertii Call diversion informatii Redirection number Nature of address ii Address signal Digi	ng on ndicator = <b>NOA_value</b>			
SIP Parameter values	180: History-Info:	lirection number in CPG;cau	se=any>; index=1		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE ->	<b>→</b>	IAM		
	181 Being forwarded ←		ACM		
	180 Ringing ←	<del>=</del>	CPG		
		Apply post test routine			

TP number	TP_403_065A	Reference	7.5.4.3		
			Table 7.5.4.3.8		
			Table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of a CPG Alerting Re	directing reason is mapped i	nto the cause parameter in		
	the 180 (Ringing) History-Info				
Test Purpose	Ensure that on receipt of a CP		•		
	number and Call diversion indi				
	cause parameter value is map	ped from the Redirecting reas	on as indicated in		
	table 6.3.3-25.				
ISUP Parameter values	ACM: Redirection number				
	Call diversion information				
	<b>CPG:</b> Event indicator = Alerting	ng			
	Call diversion information	on			
	Redirecting reason = <b>REAS_value</b>				
	Redirection number				
SIP Parameter values	180:				
	History-Info:				
	<sip: any="" proper="" th="" uri;ca<=""><th>use=Cause_value&gt;; index=1</th><th></th></sip:>	use=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 065B	Reference		7.5.4.3		
				Table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/	<b>'</b>		-		
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of a CPG Alerting containing a History-Info he			ions the 180 (Ringing)		
Test Purpose	number and Call diversion i Privacy value is set to 'histo OK INVITE is sent and a Hi	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number and Call diversion indicator parameters are present, a 180 (Ringing) is sent. The Privacy value is set to 'history'. On receipt of an ISUP ANM message is received, a 200 OK INVITE is sent and a History-Info header may be present. If present an escaped Privacy header is present as indicated in table 6.3.3-26.				
ISUP Parameter values	ACM: Redirection number Call diversion information CPG: Event indicator = Alerting Call diversion information Notification subscription options = NSO_value Redirection number					
SIP Parameter values	200 OK History-Info:	180: History-Info: <sip: any="" proper="" uri;cause="any?Privacy=history">; index=1 200 OK</sip:>				
Comments						
Message flows	Mg INVITE 181 Being forwarded 180 Ringing 200 OK INVITE ACK	MGCF	→ ← ← ←	ISUP IAM ACM CPG ANM		

TP number	TP_403_065C	Reference	7.5.4.3			
			Table 7.5.4.3.10			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of a CPG Alerting with	hout Call Diversion Informa	tion parameters the 180			
	(Ringing) containing a History-	Info header is sent, cause pa	rameter			
Test Purpose	Ensure that on receipt of a CP					
	Information parameters are pro					
	is derived from the Redirection		s received Call diversion			
	information parameter as indic	ated in table 6.3.3-25.				
ISUP Parameter values	<b>ACM:</b> Redirection number					
	Call diversion information					
	Redirecting reason	= REAS_value				
	Redirection number					
	CPG: Event indicator = Alerting					
SIP Parameter values	180:					
	History-Info:					
	<pre><sip: any="" proper="" uri;cause="CAUSE_value?Privacy=history">; index=1</sip:></pre>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	181 Being forwarded ← ACM					
	180 Ringing ← ← CPG					
		Apply post test routine				

TP number	TP_403_065D	Reference	7.5.4.3		
	11 _ 100_0002		Table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/	-1			
Selection criteria	PICS 6.3.2/27				
Test Purpose name		ithout Call Diversion Information in the Informatio			
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' no Call diversion Information parameters are present, a 180 (Ringing) is sent. The Privacy value is set to 'history'. On receipt of an ISUP ANM message is received, a 200 OK INVITE is sent and a History-Info header may be present. If present an escaped Privacy header is present as indicated in table 6.3.3-26.				
ISUP Parameter values	ACM: Redirection number Call diversion information Notification subscription options = NSO_value Redirection number CPG: Event indicator = Alerting				
SIP Parameter values	180: History-Info: <sip: any="" proper="" uri;cause="any?Privacy=history">; index=1  200 OK History-Info: sip: LAST_HIST_URI;cause=any?Privacy=PRIV_value&gt;; index=1</sip:>				
Comments		-	-		
Message flows	181 Being forwarded 180 Ringing		ISUP IAM ACM CPG ANM		
		Apply post test routine			

TP number	TP_403_065E	Reference	7.5.4.3				
			Table 7.5.4.3.10				
TSS reference	IMS-SS/CDIV/		·				
Selection criteria	PICS 6.3.2/27						
Test Purpose name	Mapping of a CPG Ale	erting without Call Diversion	Information parameters the 180				
	(Ringing) a History-Inf	o header is not present					
Test Purpose			r is set to 'Alerting' no Call diversion				
			<ul><li>g) is sent. The Notification subscription</li></ul>				
	options in the previous	s received encapsulated ACM	I was set to presentation not allowed.				
ISUP Parameter values	ACM: Redirection nu	mber					
	Call diversion i	nformation					
	Notification	subscription options = preser	ntation not allowed				
	Redirection nu	Redirection number					
	CPG: Event indicator	CPG: Event indicator = Alerting					
SIP Parameter values	180:						
	History-Info header not present						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
			← ACM				
	180 Ringing	<b>←</b>	← CPG				
	Apply post test routine						

TP number	TP_403_066	Reference	7.5.4.3		
			Table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.2/27				
Test Purpose name	Mapping of CPG Alerting Redirect	ion Number Restriction into 18	30 (Ringing) Privacy header		
Test Purpose	Ensure that on receipt of a CPG th				
	Restriction parameter is present, a				
	parameter value is mapped into th	e Privacy header in the sent 1	80 as indicated in		
	table 6.3.3-27.				
ISUP Parameter	ACM: Backward call indicator				
values	Called party status = no				
	Generic notification = call is diverting				
	Call diversion information				
	Notification subscription	options = <b>NSO_value</b>			
	Redirection number				
	CPG: Event indicator = Alerting				
	Redirection Number Restric	ction = PRES_restr			
SIP Parameter values	180:				
	History-Info: <sip:any proper<="" th=""><th>URI;cause=any?Privacy=<b>PRI</b></th><th>/_value&gt;;</th></sip:any>	URI;cause=any?Privacy= <b>PRI</b>	/_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			

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 AND previous received Notification subscription option NSO_value was NOT "presentation not allowed" AND was NOT "presentation allowed without redirection number"	'none' OR Header not present
VA_02	Presentation restricted	'History'
VA_03	Parameter absent AND previous received Notification subscription option NSO_value was NOT "presentation not allowed" AND was NOT "presentation allowed without redirection number"	'none' OR Header not present

TP number	TP_403_068	Reference	7.5.4.3			
			Table 7.5.4.3.7			
TSS reference	IMS-SS/CDIV/	·	·			
Selection criteria	PICS 6.3.2/27					
Test Purpose name	Mapping of ANM Redire	ection Number Restriction int	to 200 OK INVITE Privacy header			
Test Purpose	as an indication a call of	Ensure that on receipt of an ANM a Redirection Number Restriction parameter is present as an indication a call diversion occurred, a 200 OK INVITE is sent. The Redirection Number Restriction parameter value is mapped into the Privacy header in the sent 200				
ISUP Parameter values	Call diversion in Notification s	ACM: Generic notification = call is diverting Call diversion information Notification subscription options = NSO_value Redirection number ANM:				
SIP Parameter values	200 OK INVITE: History-Info: <sip:8< th=""><th colspan="5">=</th></sip:8<>	=				
Comments						
Message flows	Mg INVITE 181 Being forwarded 180 Ringing 200 OK INVITE ACK	MGCF   ←  ←  Apply post test ro	ISUP  → IAM ← ACM ← CPG ← ANM			

# 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 6.3.2/20 AND F	PICS 6.3.9/1				
Test Purpose name	'isfocus' parameter ar SUBSCRIBE is sent	nd conference U	RI in Contact head	er in ACK received, a		
Test Purpose	Ensure that on receipt of an INVITE request and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent after the ACK was received. The Request URI contains the value received in the Contact header in the ACK, the To header is set to the value sent in the 180 Ringing, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the 180 Ringing or the 200 OK INVITE the Privacy header is sent as in the 180 Ringing or 200 OK INVITE.					
ISUP Parameter values						
SIP Parameter values	SUBSCRIBE: Reque To: <u< th=""><th colspan="5">INVITE: Contact: <conference uri="">; isfocus SUBSCRIBE: Request URI derived from the Contact header To: <uri 180="" equal="" in="" the="" to="" value=""> P-Asserted-Identity: &lt; URI equal to the value in the 180 or 200&gt;</uri></conference></th></u<>	INVITE: Contact: <conference uri="">; isfocus SUBSCRIBE: Request URI derived from the Contact header To: <uri 180="" equal="" in="" the="" to="" value=""> P-Asserted-Identity: &lt; URI equal to the value in the 180 or 200&gt;</uri></conference>				
Comments						
Message flows	Mg INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK SUBSCRIBE 202 Accepted	→ ← ← → App		ISUP  → IAM  ← ACM  ← ANM		
		App	iy post test routiin	<u> </u>		

TP number	TP_404_002	Re	ference	7.5.6.2	
TSS reference	PSTN-SS/CONF/	•		·	
Selection criteria	PICS 6.3.2/20 AN	D PICS 6.3.9/1			
Test Purpose name	'isfocus' paramete SUBSCRIBE is se		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	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 IAM ACM	<b>→</b> ←	MGCF → ←	Mg INVITE 100 Trying 180 Ringing	
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK	
			<b>→</b>	SUBSCRIBE 202 Accepted	
		A	apply post test routi	•	

TP number	TP_404_003	Reference		7.5.6.3			
TSS reference	PSTN-SS/CONF/	<u>.</u>					
Selection criteria	PICS 6.3.2/20 AND PI	PICS 6.3.2/20 AND PICS 6.3.9/1					
Test Purpose name	Interworking of notifica	tion of 'Conference esta	blished' at the	e I-MGCF			
Test Purpose	isfocus parameter, a s request as a response present, the 'conference	Ensure that on receipt of an initial INVITE request and the Contact header contains the <b>isfocus</b> parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to ' <b>Conference established</b> '.					
ISUP Parameter values	CPG: Generic notifica Conference						
SIP Parameter values	INVITE: Contact: <conference uri="">; isfocus  NOTIFY: Subscription-State: active</conference>						
Comments							
Message flows	Mg INVITE 100 Trying 180 Ringing	MGCI → ← ←	→ +	ISUP IAM ACM			
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b>	ANM			
	SUBSCRIBE 202 Accepted	<b>←</b> →					
	NOTIFY 200 OK (NOTIFY)	→ ← Apply post te	→ est routine	CPG			

TP number	TP_404_004	Referen	се	7.5.6.3		
TSS reference	PSTN-SS/CONF/			·		
Selection criteria	PICS 6.3.2/20 ANI	PICS 6.3.2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of not	Interworking of notification of 'Conference established' 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 not Confere	tification ence established				
SIP Parameter values	NOTIFY: Subscription-State: active					
Comments	focus. The original	TE received in the cor ly dialogue have to te		is originated by the conference		
Message flows	ISUP		CF	Mg		
	IAM ACM	<b>→</b> ←	<b>→ ← ←</b>	INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>	<b>←</b> →	200 OK (INVITE) ACK		
			<b>→</b> ←	SUBSCRIBE 202 Accepted		
	CPG	<b>←</b>	<b>←</b> →	NOTIFY 200 OK (NOTIFY)		
		Apply	← → post test routi	BYE 200 OK (BYE) ne		

TP number	TP_404_005	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.2/20 AND PICS 6.3.9	9/1				
Test Purpose name	Interworking of notification of 'c	other party added' at the I-MG0	CF			
Test Purpose	An established conference is a					
	request at the I-MGCF. Ensure					
	attribute of the 'endpoint' elem-					
	To header and the 'status' sub					
	ISUP CPG message is sent th	e Generic notification indicator	is set to ' <b>other party</b>			
	added'.					
ISUP Parameter values	CPG: Generic notification					
	other party added					
SIP Parameter values	NOTIFY: To: <isup address=""></isup>					
	Subscription-State:	active				
	Event: conference					
	Content-Type: application/conference-info+xml					
	xml version="1.0"</th					
	conference-info					
	users					
	user					
	endpoint entity=" <not isup="" of="" uri="">"</not>					
_	status>connected<					
Comments						
Message flows	Mg	MGCF	ISUP			
	Session is established and joined in a conference					
	NOTIFY →	<b>→</b>	CPG			
	200 OK (NOTIFY) ←					
		Apply post test routine				

	TD 404 000		To 4	T= 0.0			
TP number	TP_404_006		Reference	7.5.6.3			
TSS reference	PSTN-SS/CO	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.2/20	PICS 6.3.2/20 AND PICS 6.3.9/1					
Test Purpose name	Interworking of	of notification of 'o	other party added' at the	O-MGCF			
Test Purpose	An establishe	d conference is a	already indicated by rece	eipt of an adequate NOTIFY request			
	at the O-MGC	at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the					
	'endpoint' eler	ment does not co	ontain the ISUP address	as received in the To header and the			
	'status' sub el	ement of the 'end	dpoint' element is set to	connected, an ISUP CPG message			
	is sent the Ge	neric notification	indicator is set to 'other	party added'.			
ISUP Parameter values	CPG: Generi	c notification					
	oth	er party added					
SIP Parameter values		<isup address:<="" th=""><th>&gt;</th><th></th></isup>	>				
	Su	oscription-State:	active				
	Ev	ent: conference					
	Co	ntent-Type: appli	ication/conference-info+:	xml			
		cml version="1.0					
	cor	nference-info					
	users						
		user					
		endpoint	entity=" <not isu<="" of="" th="" uri=""><th>P&gt;"</th></not>	P>"			
		•	s>connected<				
Comments							
Message flows	ISUF	)	MGCF	Mg			
	Session is established and joined in a conference						
	CPG	<b>←</b>	<b>+</b>	NOTIFY			
		_	<b>→</b>	200 OK (NOTIFY)			
			Apply post test rout	•			
			, p. , p				

TP number	TP_404_007	Ref	erence	7.5.6.3	
TSS reference	PSTN-SS/CONF	/			
Selection criteria	PICS 6.3.2/20 AN	ND PICS 6.3.9/1			
Test Purpose name	Interworking of n	otification of 'isolat	ed' 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 ' <b>isolated</b> '.				
ISUP Parameter values	CPG: Generic n				
SIP Parameter values	Isolated  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	Mg	Section is estab	MGCF olished and joined in a	ISUP	
	CASE A NOTIFY 200 OK (NOTIFY  CASE B NOTIFY 200 OK (NOTIFY  INVITE(sendonly 200 OK (INVITE) ACK	**************************************	pply post test routine	CPG CPG	

TP number	TP_404_008	Reference		7.5.6.3		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.2/20 AN	D PICS 6.3.9/1				
Test Purpose name	Interworking of no	tification of 'isolated' at th	e O-MGCF			
Test Purpose	at the O-MGCF. E 'endpoint' element sub element of the Generic notificatio	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 no					
SIP Parameter values	isolated NOTIFY: To: <is< th=""><th></th><th></th><th></th></is<>					
	Subscri Event: Conten xml v<br confere use	iption-State: active conference t-Type: application/confer version="1.0" ence-info		ml		
Comments	10110					
Message flows	ISUP	MGCF		Mg		
		Session is established	and joined	in a conference		
	CASE A					
	CPG	<b>←</b>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
	CASE B					
	CPG	<del>(</del>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
			<b>←</b> <b>→</b> <b>←</b>	INVITE(sendonly) 200 OK (INVITE) ACK		
		Apply po	st test routi	ne		

TP number	TP_404_009	Reference	7.5.6.3					
TSS reference	PSTN-SS/CONF/							
Selection criteria		0.04						
	PICS 6.3.2/20 AND PICS 6		1005					
Test Purpose name		of 'other party isolated' at the I-M						
Test Purpose		An established conference is already indicated by receipt of an adequate NOTIFY						
		sure that on receipt of a NOTIFY						
		ement does not contain the ISUI						
		sub element of the 'endpoint' ele	· · · · · · · · · · · · · · · · · · ·					
	ISUP CPG message is sen	t the Generic notification indicate	or is set to ' <b>other party</b>					
	isolated'.							
ISUP Parameter values	<b>CPG:</b> Generic notification							
	other party isola	ed						
SIP Parameter values	NOTIFY: To: <isup address=""></isup>							
	Subscription-Sta	te: active						
	Event: conference	ce						
	Content-Type: a	pplication/conference-info+xml						
	xml version="</th <th></th> <th></th>							
	conference-info							
	users							
	user							
	endpo	oint entity=" <not isup="" of="" uri="">"</not>						
		status>on-hold<						
Comments								
Message flows	Mg	MGCF	ISUP					
	_	Session is established and other party joined in a conference						
	NOTIFY	<b>→</b> →	CPG					
	200 OK (NOTIFY)	<b>←</b>						
		Apply post test routine						
i .	Apply post test routille							

TP number	TP_404_010	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.2/20 AND PICS 6	3.3.9/1				
Test Purpose name	Interworking of notification	of 'other party isolated' at the	e O-MGCF			
Test Purpose			pt of an adequate NOTIFY request			
			quest and the 'entity' attribute of the			
			as received in the To header and the			
			n-hold, an ISUP CPG message is			
		n indicator is set to ' <b>other pa</b>	irty isolated'.			
ISUP Parameter values	<b>CPG:</b> Generic notification					
	other party isola					
SIP Parameter values	NOTIFY: To: <isup address=""></isup>					
	Subscription-Sta					
	Event: conferen					
		pplication/conference-info+x	ml			
	xml version="1.0"</th					
	conference-info					
	users					
	user					
		oint entity=" <not isuf<="" of="" th="" uri=""><th>2&gt;"</th></not>	2>"			
	status>on-hold<					
Comments						
Message flows	ISUP MGCF Mg					
	Session is established and other party joined in a conference					
	CPG €	· <b>←</b>	NOTIFY			
		<b>→</b>	200 OK (NOTIFY)			
		Apply post test routi	ne			

TP number	TP_404_011	Reference		7.5.6.3			
TSS reference		Reference		7.5.6.5			
	PSTN-SS/CONF/	0.000/4					
Selection criteria	PICS 6.3.2/20 AND PIC						
Test Purpose name		on of 'reattached' at the I					
Test Purpose				an adequate NOTIFY request			
		and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity'					
		d element contains the IS					
				nt is set to <b>connected</b> , an			
		sent the Generic notificat	ion indicato	or is set to 'reattached'.			
ISUP Parameter values	CPG: Generic notificati	on					
	reattached						
SIP Parameter values	NOTIFY: To: <isup ad<="" th=""><th>ldress&gt;</th><th></th><th></th></isup>	ldress>					
	Subscription-						
	Event: confer	ence					
		e: application/conference-	info+xml				
	xml version</th <th></th> <th></th> <th></th>						
	conference-in	nfo					
	users						
	user						
	ene	dpoint entity=" <uri is<="" of="" th=""><th>UP&gt;"</th><th></th></uri>	UP>"				
		status>connected<					
Comments							
Message flows	Mg	MGCF		ISUP			
		s established joined in	a conferen	ice and isolated			
	CASE A						
	NOTIFY	<b>→</b>	→	CPG			
	200 OK (NOTIFY)	<b>←</b>					
	, , ,						
	CASE B						
	NOTIFY → CPG						
	200 OK (NOTIFY)						
		=					
	INVITE(sendrecv)	<b>→</b>					
	200 OK (INVITE)	<del>`</del>					
	ACK	<b>→</b>					
	AUN	Apply post test	routine				
		Apply post test	Toutine				

TP number	TP_404_012	Reference		7.5.6.3		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.2/20 AND	PICS 6.3.9/1				
Test Purpose name	Interworking of notif	fication of 'reattached' at the	O-MGC	F		
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 ' <b>reattached</b> '.				
ISUP Parameter values	CPG: Generic noti					
	Reattach					
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;connected&lt;</isup>					
Comments	IOLID					
Message flows	ISUP	MGCF		Mg		
	CASE A	sion is established joined ir	n a cont	ference and isolated		
	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(sendrecv)		
			<b>→</b>	200 OK (INVITE)		
			<b>←</b>	ACK		
		Apply post te	st routi	ne		

TP number	TP_404_013	Reference	7.5.6.3					
TSS reference	PSTN-SS/CONF/							
Selection criteria	PICS 6.3.2/20 AND PIC	CS 6.3.9/1						
Test Purpose name	Interworking of notifica	tion of 'other party reattache	d' at the I-MGCF					
Test Purpose	An established confere request and another parequest and the 'entity' address as received in element is set to <b>conn</b>	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'.						
ISUP Parameter values	CPG: Generic notifica							
loor rarameter values	other party r							
SIP Parameter values	NOTIFY: To: <isup <?xml="" a="" confe="" conference-="" content-typ="" event:="" subscription="" th="" user<="" users="" version=""><th>address&gt; n-State: active erence be: application/conference-in on="1.0"</th><th></th></isup>	address> n-State: active erence be: application/conference-in on="1.0"						
Comments								
Message flows	Mg Session is establi NOTIFY 200 OK (NOTIFY)	MGCF shed joined in a conference → ← Apply post test re	ISUP se and another party was isolated → CPG  outine					

TP number	TP_404_014	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.2/20 AND PICS 6.3.9	9/1				
Test Purpose name	Interworking of notification of 'c	other party reattached' at the O	-MGCF			
Test Purpose	An established conference is a					
	and another party is isolated at					
	and the 'entity' attribute of the '					
	received in the To header and					
	connected, an ISUP CPG mes	ssage is sent the Generic notif	cation indicator is set to			
	other party reattached.					
ISUP Parameter values	CPG: Generic notification					
	other party reattach					
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					
	-	entity=" <not isup="" of="" uri="">"</not>				
	status	s>connected<				
Comments						
Message flows	ISUP	MGCF	Mg			
	Session is established joined in a conference and another party was isolated					
	CPG ←	← NOT				
			OK (NOTIFY)			
		Apply post test routine				

		1			
TP number	TP_404_015	Re	ference	7.5.6.3	
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.2/20 AN	D PICS 6.3.9/1			
Test Purpose name	Interworking of notification of 'other party disconnected' 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 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 no	otification			
		arty disconnecte	ed		
SIP Parameter values	Event: Conten xml v<br confere use	iption-State: acti conference tt-Type: applicati version="1.0" ence-info rs user endpoint ent status>di joining-m or		of ISUP>" in<	
Comments					
Message flows	Mg MGCF ISUP  Session is established and joined in a conference  NOTIFY → CPG				
	200 OK (NOTIFY)	<b>←</b>			
		A	pply post test	routine	

TP number	TP_404_016	Reference	7.5.6.3		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of notification of 'c	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				
	'endpoint' element does not contain the ISUP address as received in the To header and the				
	'status' sub element of the 'end				
		otification indicator is set	to 'other party disconnected'.		
ISUP Parameter values	CPG: Generic notification				
	other party disconne	ected			
SIP Parameter values	NOTIFY: To: <isup address:<="" th=""><th>&gt;</th><th></th></isup>	>			
	Subscription-State:	Subscription-State: active			
	Event: conference				
	Content-Type: application/conference-info+xml				
	xml version="1.0"</th				
	conference-info				
	users				
	user				
	endpoint entity=" <not isup="" of="" uri="">"</not>				
	status>disconnected<				
	or				
	joinin	g-method>dialled-out<			
Comments					
Message flows	ISUP	MGCF	Mg		
		established and joined	in a conference		
	CPG ←	+	NOTIFY		
		<b>→</b>	200 OK (NOTIFY)		
		Apply post test routi	ne		

# 6.3.5 Message Waiting Indication (MWI)

Void.

### 6.3.6 Malicious Communication Identification (MCID)

TP number	TP 406 001	Reference	7.5.9.1			
TSS reference	IMS-SS/MCID/	1.0.0.0.00	17.0.0.1			
Selection criteria	PICS 6.3.2/26					
Test Purpose name	Receipt of INFO request an IDI					
Test Purpose	Ensure that on receipt of an IN					
	'McidRequestIndicator' subelen	nent is set to XML_Mcid	Req, an ISUP IDR message is sent			
	and the MCID request indicator	rs is set to MCID_req as	indicated in table 6.3.6-1.			
ISUP Parameter values	IDR: MCID request indicators	<u> </u>				
	MCID_req					
SIP Parameter values	INFO:					
	xml version="1.0"</th <th colspan="5"></th>					
	mcid					
	request>					
	McidRequestIndicator> <b>XML_McidReq</b> </th					
	HoldingIndicator>1 </th					
Comments	Tioldinginalcator>1	/				
	IOLID	14005				
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	IDR <b>←</b>	<b>+</b>	INFO			
		<b>→</b>	200 OK INFO			
	Apply post test routine	•	200 0.1.111 0			

Table 6.3.6-1: Mapping of XML McidRequestIndicator into ISUP MCID request indicator

	XML_McidReq	MCID_req
VA_01	0	MCID not requested
VA_02	1	MCID requested

TP number	TP 406 002	Reference	7.5.9.1			
TSS reference	IMS-SS/MCID/					
Selection criteria	PICS 6.3.2/26					
Test Purpose name	Receipt of IRS an INFO re	quest is sent				
Test Purpose		Ensure that on receipt of an IRS message containing a MCID response indicator set to				
•		nt and a MCID XML response				
		or is set to <b>XML_McidRsp</b> a				
ISUP Parameter values	IRS: MCID response ind					
	MCID_rsp					
SIP Parameter values	INFO:					
	xml version="1.0"</th <th></th> <th></th>					
	mcid					
	response>	response>				
	McidResponsel	ndicator>XML_McidRsp </th <th></th>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM =	→	INVITE			
	ACM	<b>-</b> ←	180 Ringing			
	IDR	<b>←</b>	INFO			
		<b>→</b>	200 OK INFO			
	IRS -	<b>→</b>	INFO			
		<b>←</b>	200 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	I	Reference		7.5.9.1.3
TSS reference	IMS-SS/MCID/	•			
Selection criteria	PICS 6.3.2/26				
Test Purpose name	Receipt of IRS an INFO request is sent, a Calling party number is interworked				
Test Purpose	Ensure that on receipt of an IRS message containing a 'mcid' response indicator is set to MCID included, an INFO request is sent and a MCID XML response element is present the McidResponseIndicator is set to 1.  A Calling party number 'user provided' or 'network provided' is contained in the IRS a XML mcid OrigPartyIdentity element is present in the INFO request and the URI is derived from the address signals of the calling party number.  Nature of address indicator:  National (significant) number: add '+' and 'CC' the county code where the SUT is located to the Address signal of the Calling party number and sent in the 'mcid' XML OrigPartyIdentity element.  International number: add '+' to the Address signal of the Calling party number and sent in the 'mcid' XML OrigPartyIdentity element.  The Calling party number Address Presentation restriction indicator value APRI_value is mapped into the XML mcid OrigPartyPresentationRestriction is set to XML_orig_restr as indicated in table 6.3.6-3.				
ISUP Parameter values	IRS: MCID response indicator				
SIP Parameter values	Address signal  INFO:				
Comments					
Message flows	ISUP	<b>→</b>	MGCF	→ IN'	<b>Mg</b> VITE
	ACM IDR	<del>-</del>		← 18 ← INI	0 Ringing FO 0 OK INFO
	IRS	→			FO 0 OK INFO
	Apply post test ro	utille			

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	Reference		7.5.9.1.4	
TSS reference	IMS-SS/MCID/					
Selection criteria	PICS 6.3.2/26					
Test Purpose name	Receipt of IRS an I	NFO request	is sent, an Addi	tional ca	alling party numb	per is interworked
Test Purpose name Test Purpose	Ensure that on recomCID included, an McidResponseIndi An Additional callir 'network provided' in the INFO requesting party number Nature of address  National is located the 'mcid' Internation number a The Additional calli	eipt of an IRS INFO request cator is set to ag party numbe is contained ir and the URI er. indicator: (significant) r to the Addres XML Genericl onal number: and sent in the ing party number	message conta is sent and a M 1. er 'user provide in the IRS a XML is derived from number: add '+' s signal of the A Number element add '+' to the A 'mcid' XML Ger per Address Pre	ining a MCID XM d' or 'us moid G the add and 'C' Addition at. ddress: hericNui esentation	'mcid' response ML response ele er provided, not GenericNumber ed dress signals of the C' the county coal calling party not signal of the Adomber element.	indicator is set to ment is present the verified or element is present the Additional de where the SUT number and sent in ditional calling party licator value
				ricNum	berPresentation	Restriction is set to
ISUP Parameter values	XML_gen_restr as IRS: MCID respo		able 6.3.6-4.			
Too Taramotor values	MCID in Generic nur Addition	cluded mber al calling Part presentation	y number restriction indic	ator = <b>A</b>	.PRI_value	
SIP Parameter values  Comments	INFO: xml version= mcid response McidRes Generic	"1.0" sponseIndicate Number> <i>deri</i> v			<i>number Addres</i> gen_restr </th <th>ss signal<!--</th--></th>	ss signal </th
	ICLID		MOOF			Mar
Message flows	ISUP IAM ACM IDR IRS Apply post test ro	<b>→</b> ←	MGCF	→ ← → ←	INVITE 180 Ringing INFO 200 OK INFO INFO 200 OK INFO	Mg

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

	•				
ISUP IDR is mapped into INFO Ensure that on receipt of an IS	•				
Ensure that on receipt of an IS	•				
	ID IDD MOID				
	Ensure that on receipt of an ISUP IDR containing a MCID request indicators indicator set to <b>MCID_req</b> , an INFO request is sent. A XML 'mcid' McidRequestIndicator is included				
· ·					
_					
Mg INVITE → 100 Trying ← INFO ← 200 OK INFO →	MGCF  →  Apply post test routine	ISUP IAM IDR			
	to MCID_req, an INFO request set to XML_McidReq as indical IDR: MCID_req  INFO: xml version="1.0"  mcid  request McidRequestIndicators  HoldingIndicator>1  Mg  INVITE  100 Trying INFO  **Trying in indicator in indicat	to MCID_req, an INFO request is sent. A XML 'mcid' McidReset to XML_McidReq as indicated in table 6.3.6-5.  IDR: MCID request indicators			

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		TO O O O O	1.0.0.2.0	
	IMS-SS/MCID/			
Selection criteria	PICS 6.3.2/26			
Test Purpose name	INFO request is mapped into ISUP IRS			
Test Purpose	Ensure that on receipt of an IN	IFO request the XML 'mcid' M	cidResponseIndicator is set	
	to MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as			
	indicated in table 6.3.6-6.	·	•	
ISUP Parameter values	IRS: MCID response indicate	or		
	MCID_rsp			
SIP Parameter values	INFO:			
	xml version="1.0"</th <th></th> <th></th>			
	mcid			
	response>			
		ator>XML_McidRsp </th <th></th>		
Comments		<u> </u>		
Message flows	Mg	MGCF	ISUP	
	INVITE ->	<b>→</b>	IAM	
	100 Trying ←			
	INFO ←	<b>+</b>	IDR	
	200 OK INFO →	<del>=</del>	IDIX	
	200 OK INFO			
	INIEO		IDO	
	INFO -		IRS	
	200 OK INFO ←			
		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 6.3.2/26			
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 indicator  MCID included  Calling Party number  Address presentation restriction indicator = APRI_value  Address signal = derived from the OrigPartyIdentity			
SIP Parameter values	INFO: xml version="1.0"     mcid     response McidResponsel     OrigPartyldentii			
Comments				
Message flows	Mg INVITE 100 Trying INFO 200 OK INFO INFO 200 OK INFO	MGCF	ISUP  → IAM  ← IDR  → IRS	
	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 6.3.2/26			
Test Purpose name	XML GenericNumber is mapped into ISUP IRS Additional calling Party number			
Test Purpose	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent.  The XML GenericNumber is mapped into the Additional calling party:  If the country code of the GenericNumber 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 GenericNumber URI and send in the Address signals of the Additional calling party number.  If the country code of the GenericNumber 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 GenericNumber URI and send in the Address signals of the Additional calling party number.  The XML GenericNumberPresentationRestriction value XML_gen_restr is mapped into			
	the Address presentation restri		the Additional calling party	
	number as indicated in table 6.			
ISUP Parameter values	IRS: MCID response indicator			
SIP Parameter values	Address signal INFO:			
	<pre> </pre> <pre> <pre></pre></pre>			
Comments				
Message flows	Mg INVITE → 100 Trying ← INFO ← 200 OK INFO →	<b>+</b>	ISUP IAM IDR	
	INFO 200 OK INFO ←		IRS	

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/	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23				
Test Purpose name	Mapping of the SIP XM parameter	IL CUG Element to the ISUP	closed usergroup interlock code		
Test Purpose		of an INVITE request contair			
		g+xml and the 'cug' XML bod			
			user group interlock code Network		
	Identity indicator and the	ne XML 'cugInterlockBinaryC	ode' is mapped into the ISUP Closed		
	user group interlock co	de Binary code indicator.			
ISUP Parameter values	IAM:				
	Optional forwar	d call indicator			
	Closed user group call indicator				
		Closed user group interlock code			
		Network Identity mapped from XML networkIndicator			
	Binary code mapped from XML cugInterlockBinaryCode				
SIP Parameter values	INVITE:				
	Content-Type: applicat	ion/vnd.etsi.cug+xml			
	xml version=</th <th>"1.0"</th> <th></th>	"1.0"			
	cug				
		orkIndicator=any proper v			
		nterlockBinaryCode=any p	roper value		
	cugC	cugCommunicationIndicator			
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		
			Table 7.5.10.1.1,		
			Table 7.5.10.1.3		
TSS reference	IMS-SS/CUG/		•		
Selection criteria	PICS 6.3.2/23				
Test Purpose name	Mapping of the SIP XML CUG	Element to the ISUP closed	user group call indicator		
	included in the optional Forwa				
Test Purpose	Ensure that on receipt of an IN				
	application/vnd.etsi.cug+xml a				
	'cugCommunicationIndicator' i				
	Closed user group call indicat	or as indicated in table 6.3.7-	·1.		
ISUP Parameter values	IAM:	IAM:			
	Optional forward call in				
		call indicator = <b>CUG_ind</b>			
	Closed user group interlock code				
		Network Identity			
	Binary code				
SIP Parameter values	INVITE:				
	Content-Type: application/vnd	.etsi.cug+xml			
	xml version="1.0"</th <th></th> <th></th>				
	cug				
	networkIndia				
	cugInterlock				
		cugCommunicationIndicator=CUG_COM_ind			
Comments	CUG_ind non-CUG call or spa				
Message flows	Mg	MGCF	ISUP		
	INVITE				
	100 Trying ←				
		Apply post test routine			

# Table 6.3.7-1: Mapping of XML cugCommunicationIndicator into ISUP Optional forward call indicator Closed user group call indicator

	CUG_COM_ind	CUG_ind
VA_01	00	non-CUG call
VA_02	01	spare
VA_03	10	closed user group call, outgoing access allowed
VA_04	11	closed user group call, outgoing access not allowed

TP number	TP 407 003	Reference	7.5.10.1
			Table 7.5.10.1.4
TSS reference	IMS-SS/CUG/		
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.10/2		
Test Purpose name	Communication is released if t without outgoing access	he PSTN/ISDN network does no	t support CUG, CUG
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '11', the communication is released with 403 (Forbidden) final response if the PSTN/ISDN network does not support CUG.		
ISUP Parameter values			
SIP Parameter values	INVITE: Content-Type: application/vnd. xml version="1.0" cug networkIndic cugInterlockl cugCommun</th <th>ator</th> <th></th>	ator	
Comments			
Message flows	Mg INVITE 403 Forbidden ACK	MGCF	ISUP

TP number	TP 407 004	Reference	7.5.10.1		
i r iiuiiibei		Kelelelice			
			Table 7.5.10.1.4		
TSS reference	IMS-SS/CUG/				
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1	0/2			
Test Purpose name	Communication is treated as a	n ordinary call if the PSTN/ISI	ON network does not support		
	CUG, CUG with outgoing acce	SS			
Test Purpose	Ensure that on receipt of an IN	VITE request containing the C	Content-Type		
	application/vnd.etsi.cug+xml ar	nd the 'cug' XML body the cug	CommunicationIndicator set		
	to '10', the communication is tre	eated as an ordinary call if the	PSTN/ISDN network does		
	not support CUG. A Closed use				
ISUP Parameter values	liot support See: 71 Glessea ust	or group interiorit dede to flot	procedite in the cone in tivi.		
SIP Parameter values	INVITE:				
	Content-Type: application/vnd.etsi.cug+xml				
	xml version="1.0"</th				
	cug				
	networkIndicator				
	cugInterlockE	SinaryCode			
		icationIndicator= <b>'10'</b>			
Comments	- ageanman	icationinalcator 10			
Message flows	Mg	MGCF	ISUP		
wessage nows	_				
	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				

TP number	TP_407_005	Reference	7.5.10.1	
			Table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1	0/2		
Test Purpose name	Communication is treated as a CUG, Non-CUG call	n ordinary call if the PSTN/ISD	ON 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.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator			
	cugInterlock			
	cugCommun	icationIndicator='00'		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
		Apply post test routine		

TP number	TP_407_006	Reference		7.5.10.2
				Table 7.5.10.2.2
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/23		
Test Purpose name	Mapping of the ISUP of	closed usergroup interloccode	to SIP	XML CUG element
Test Purpose		of an IAM and a Closed user		
	present, an INVITE re-	quest is sent. The Network Ide	entity in	dicator is mapped into the
		element, the Binary code is m	apped	into the XML
	cugInterlockBinaryCod	le.		
ISUP Parameter values	IAM:			
	Optional forwar			
		r group call indicator		
		oup interlock code		
		entity = any proper value		
		le = any proper value		
SIP Parameter values	INVITE:			
	Content-Type: applica			
	xml version=</th <th>"1.0"</th> <th></th> <th></th>	"1.0"		
	cug			
		vorkIndicator = mapped from		
		nterlockBinaryCode = mapp	ed from	n <i>Binary code</i>
	cug(	CommunicationIndicator		
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 6.3.2/23			
Test Purpose name	Mapping of the ISUP closed us			
Test Purpose	Ensure that on receipt of an IAM and an Optional forward call indicator is present set to <b>CUG_ind</b> , an INVITE request is sent. The XML cugCommunicationIndicator is mapped from the ISUP Closed user group call indicator set to <b>CUG_ind</b> as indicated in table 6.3.7-2.			
ISUP Parameter values	Optional forward call inc Closed user group of Closed user group inter Network Identity Binary code	call indicator = CUG_ind		
SIP Parameter values	INVITE: Content-Type: application/vnd. xml version="1.0" cug networkIndic cugInterlockl</th <th>ator</th> <th>ind</th>	ator	ind	
Comments	- Jagosiiii a			
Message flows	ISUP IAM →	MGCF  →  Apply post test routine	Mg INVITE 100 Trying	

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 6.3.2/23 AND PICS 6.3.	10/1		
Test Purpose name	Communication is released if outgoing access	the IMS network does not supp	port CUG, CUG without	
Test Purpose	Ensure that on receipt of an IAM and the Optional forward call indicator Closed user group call indicator is set to closed user group call, outgoing access not allowed and the IMS network does not support the CUG supplementary service, a REL is sent and the Cause value is set to #29 Facility rejected the diagnostics indicating CUG without access.			
ISUP Parameter values	IAM: Optional forward call in	dicator call indicator = C UG call, outg	-	
SIP Parameter values	3			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM → REL ← 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 6.3.2/23 AND PICS 6.3.	10/1			
Test Purpose name	Communication is treated as a	an ordinary call if the IMS netv	ork does not support CUG,		
	CUG with outgoing access				
Test Purpose	Ensure that on receipt of an IA				
	group call indicator is set to cle				
	network does not support the	CUG supplementary service,	the communication is treated		
	as an ordinary call.				
ISUP Parameter values	IAM:				
	Optional forward call indicator				
	Closed user group call indicator = C UG call, outgoing access allowed				
	Closed user group interlock code				
	Network Identity				
	Binary code				
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	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/		
Selection criteria	PICS 6.3.2/24		
Test Purpose name	Mapping of CCNR possible inc	dication in the ACM	
Test Purpose	Ensure that on receipt of an Alpossible' a 180 Ringing is sent Called party number, the purposet to 'NR'.	t. A Call-Info header is present	t, the URI is derived from the
ISUP Parameter values	IAM: Called party number Number digits ACM: Called party status Subscriber free CCNR possible indicate CCNR possible	or	
SIP Parameter values	180: Call-Info: <sip:called 180:<="" page="" th=""><th>arty number digits&gt;;purpose=c</th><th>call-completion;m=NR</th></sip:called>	arty number digits>;purpose=c	call-completion;m=NR
Comments			•
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	180 Ringing ←	<b>←</b>	ACM
		Apply post test routine	

TP number	TP_408_002	Reference	7.5.11.1,		
			Table 7.5.11.1.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	Mapping of CCNR possible inc	lication in the CPG			
Test Purpose	Ensure that on receipt of a CP	G Event indicator set to 'Alerti	ng' and a CCNR possible		
	indicator is present set to 'CCN	IR possible' a 180 Ringing is s	sent. A Call-Info header is		
	present, the URI is derived from	m the Called party number, the	e purpose parameter is set to		
	'call-completion', the m parame	eter is set to 'NR'.			
ISUP Parameter values	IAM: Called party number				
	Number digits				
	ACM: Called party status				
	No indication				
	CPG: Event indicator				
	Alerting				
	CCNR possible indicator				
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>arty number digits&gt;;purpose=c</th><th>call-completion;m=NR</th></sip:called>	arty number digits>;purpose=c	call-completion;m=NR		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
		<b>←</b>	ACM(no indication)		
	180 Ringing ←	<b>←</b>	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 6.3.2/24			
Test Purpose name	Mapping of CCBS possible inc	ication in the REL		
Test Purpose	Ensure that on receipt of an REL message Cause #17 and a CCBS possible indicator in the Diagnostic field is set to 'CCBS possible' a 486 Busy here is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'BS'.			
ISUP Parameter values	IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible			
SIP Parameter values	486: Call-Info: <sip:called 486:<="" page="" th=""><th>arty number digits&gt;;purpose=0</th><th>call-completion;m=BS</th></sip:called>	arty number digits>;purpose=0	call-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	Reference	7.5.11.1,
			Table 7.5.11.1.1
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 6.3.2/24		
Test Purpose name	Mapping of m parameter in the	ne INVITE request URI into CCS	SS parameter in the IAM
Test Purpose		NVITE request and a "m" paran	
	IAM is sent and the CCSS ca	Ill indicator parameter is presen	t and the value is set to
	'CCSS call'.		
ISUP Parameter values	IAM: CCSS call indicator		
	CCSS call		
SIP Parameter values	INVITE: <request uri="">;m</request>	=NR or ;m=BS	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	<b>→</b>	IAM
	100 Trying	<b>-</b>	
	, ,	Apply post test routine	

TP number	TP_408_005	Reference	7.5.11.1,
			Table 7.5.11.1.1
TSS reference	IMS-SS/CC/	<u> </u>	•
Selection criteria	PICS 6.3.2/24		
Test Purpose name	Mapping of Call-Info I	header in the INVITE into CCS	SS parameter in the IAM
Test Purpose	Ensure that on receipt of an INVITE request and a Call-Info header is present the purpose parameter is set to 'call-completion' and the m parameter set to 'BS' or 'NR' an IAM is sent and the CCSS call indicator parameter is present and the value is set to 'CCSS call'.		
ISUP Parameter values	IAM: CCSS call ind		
SIP Parameter values	INVITE: <request Call-Info: &lt; NR</request 		s>;purpose=call-completion; m=BS or
Comments			
Message flows	Mg INVITE 100 Trying	MGCF  → ← Apply post test re	→ IAM

TP number	TP 408 006	Reference	7.5.11.1,		
			Table 7.5.11.1.2		
TSS reference	IMS-SS/CC/		,		
Selection criteria	PICS 6.3.2/24				
Test Purpose name	Invocation of CCBS in the I-MC	GCF m parameter in Start line			
Test Purpose	Ensure that on receipt of a SU				
	parameter set to 'BS' and Ever				
	UDT or XUDT is sent containing				
	REQUEST invoke CalledParty				
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to		
	'TRUE'.				
TCAP Parameter values	TC Begin	TC Begin			
	CCBS REQUEST invoke				
	CalledPartyNumber derived from the <b>To</b> header				
	CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header				
	RetainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>				
_	Event: call-comp	pletion			
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted				
		Apply post test routine			

TP number	TP_408_007	Reference	7.5.11.1,		
			Table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	Invocation of CCBS in the I-MC	GCF m parameter in Call-Info	header		
Test Purpose	Ensure that on receipt of a SUI				
	'call-completion' and a Call-Info				
	m parameter set to 'BS', a SCC				
	invoke Data field. The TC-Begi				
	the To header, the CallingParty		rom header and the		
	RetainSupported is set to 'TRL	JE'.			
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				
	Call-Info: <sip:c< th=""><th>alling party number digits&gt;;pu</th><th>rpose=call-completion; m=BS</th></sip:c<>	alling party number digits>;pu	rpose=call-completion; m=BS		
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted				
		Apply post test routine			

TP number	TP_408_008	Reference	7.5.11.1,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/	•	·	
Selection criteria	PICS 6.3.2/24			
Test Purpose name	Invocation of CCNR in the I-	MGCF m parameter in Start lin	е	
Test Purpose	Ensure that on receipt of a SUBSCRIBE request the Request URI contains the m parameter set to 'NR' and Event header field contains the value 'call-completion', a SCCP UDT or XUDT is sent containing a TC-Begin REQUEST invoke Data field. The TC-Begin REQUEST invoke CalledPartyNumber is derived from the To header, the CallingPartyNumber is derived from the From header and the RetainSupported is set to 'TRUE'.			
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 TRUE			
SIP Parameter values	SUBSCRIBE: <request ur<br="">Event: call-col</request>			
Comments		•		
Message flows	0020022	MGCF  →  Apply post test routine	SCCP (X)UDT (TC-Begin)	

TP number	TP_408_009	Reference	7.5.11.1,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	Invocation of CCNR in the I-MO	GCF m parameter in Call-Info	header	
Test Purpose	Ensure that on receipt of a SUI	BSCRIBE and the Event head	er field contains the value	
	'call-completion' and a Call-Info	header with purpose parame	ter ser to call-completion and	
	m parameter set to 'NR', a SCO	CP UDT or XUDT is sent conta	aining a TC-Begin REQUEST	
	invoke Data field. The TC-Begi	n REQUEST invoke CalledPa	rtyNumber is derived from	
	the To header, the CallingParty	Number is derived from the F	rom header and the	
	RetainSupported is set to 'TRU	JE'.		
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			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri=""></request>			
	Event: call-completion			
	Call-Info: <sip:call-info: <<="" th=""><th>alling party number digits&gt;;pur</th><th>pose=call-completion; m=NR</th></sip:call-info:>	alling party number digits>;pur	pose=call-completion; m=NR	
Comments				
Message flows	Mg	MGCF	SCCP	
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)	
	202 Accepted ←			
		Apply post test routine		

TP number	TP 408 010	Reference	7.5.11.1,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/		•	
Selection criteria	PICS 6.3.2/24			
Test Purpose name	PUBLISH with m=BS parameter	er in the Request line and PID	F basic status "closed" is	
	interworked into CCBS SUSPE	END		
Test Purpose	Ensure that on receipt of a PU			
	Request line is set to 'BS' the E			
	PIDF XML MIME body is prese			
	XUDT is sent containing a TC-	Cont CCBS SUSPEND Data to	ield.	
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>			
Comments	Note the XML semantic is schematically the alias is not considered.			
Message flows	Mg MGCF SCCP			
	Invoke a successful CCBS request and remote user is now free			
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
		Apply post test routine		

TP number	TP_408_011	Reference	7.5.11.1,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	PUBLISH with m=BS parameter	er in Call-Info header and PIDI	F basic status "closed" is	
	interworked into CCBS SUSPE			
Test Purpose	Ensure that on receipt of a PU			
	'presence' and a Call-Info head			
	parameter set to 'BS' and a PII			
	'closed', a SCCP UDT or XUD	Γ 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>			
	<status></status>			
	<basic>close</basic>	. ,		
Comments	Note the XML semantic is sche	ematically the alias is not cons	idered.	
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		

TP number	TP 408 012	Reference	7.5.11.1,	
i Filallibei	TP_400_012	Reference	,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	PUBLISH with m=BS parameter interworked into CCBS RESUM		F basic status "open" is	
To at December 2				
Test Purpose	Ensure that on receipt of a PUI			
	Request line is set to 'BS' the E			
	XML MIME body is present the		, a SCCP UDT or XUDT is	
	sent containing a TC-Cont CCI	BS RESUME 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			
	<pre><?xml version="1.0" encoding="UTF-8"?></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_013	Reference	7.5.11.1,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	PUBLISH with m=BS paramete	er in Call-Info header and PID	F basic status "open" is	
	interworked into CCBS RESUM	ΛE		
Test Purpose	Ensure that on receipt of a PU	BLISH request and the Event	header field contains the	
	value 'presence', a Call-Info he	ader with purpose parameter	ser to call-completion and m	
	parameter set to 'BS' and a PII			
	'open', a SCCP UDT or XUDT	is sent containing a TC-Cont (	CCBS RESUME Data field.	
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche	ematically the alias is not cons	sidered.	
Message flows	Mg	MGCF	SCCP	
	Successful CCBS request	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_014	Reference	7.5.11.1,		
i Filallibei	17_400_014	Reference	· · · · · · · · · · · · · · · · · · ·		
			Table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	PUBLISH with m=NR paramet	er in the Request line and PID	F basic status "closed" is		
	interworked into CCBS SUSPE	END			
Test Purpose	Ensure that on receipt of a PU				
	Request line is set to 'NR' the I	Event header field contains the	e value 'presence' and a		
	PIDF XML MIME body is prese	ent 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="">; 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>close</basic>	ed			
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				

TP number	TP_408_015	Reference	7.5.11.1,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	PUBLISH with m=NR paramet		F basic status "closed" is	
	interworked into CCBS SUSPE			
Test Purpose	Ensure that on receipt of a PU			
	'presence', a Call-Info header v			
	parameter set to 'NR' and a PII			
	'closed', a SCCP UDT or XUD	Γ 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=NR</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	ed		
Comments	Note the XML semantic is sche	ematically the alias is not cons	idered.	
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 408 016	Reference	7.5.11.1,		
	11 _ 100_010	11010101100	Table 7.5.11.1.2		
TSS reference	IMS-SS/CC/		Table 7.5.11.1.2		
Selection criteria	PICS 6.3.2/24				
Test Purpose name	PUBLISH with m=NR paramete interworked into CCBS RESUM		F basic status "open" is		
Test Purpose	Ensure that on receipt of a PUI	BLISH request and a "m" para	meter is present in the		
	Request line is set to 'NR' the I	Event header field contains the	e value 'presence' and a		
	PIDF XML MIME body is prese	ent the presence status set to	open', a SCCP UDT or		
	XUDT is sent containing a TC-				
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>				
	<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,	
			Table 7.5.11.1.2	
TSS reference	IMS-SS/CC/		•	
Selection criteria	PICS 6.3.2/24			
Test Purpose name	PUBLISH with m=NR paramet	er in Call-Info header and PID	F basic status "open" is	
	interworked into CCBS RESUM	ИE		
Test Purpose	Ensure that on receipt of a PU			
	'presence' a Call-Info header w	vith purpose parameter ser to	call-completion and m	
	parameter set to 'NR' and a PI			
	'open', a SCCP UDT or XUDT	is sent containing a TC-Cont	CCBS RESUME Data field.	
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche	ematically the alias is not cons	sidered.	
Message flows	Mg	MGCF	SCCP	
	Successful CCNR request	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/	•	
Selection criteria	PICS 6.3.2/24		
Test Purpose name	SUBSCRIBE with m=BS and	Expires header set to '0' is inte	rworked into CCBS CANCEL
Test Purpose	Ensure that on receipt of a SU	BSCRIBE request and a "m" p	parameter is present in the
	Request line is set to 'BS' or a	Call-Info header with purpose	parameter ser to call-
	completion and m parameter s	set to 'BS' and Event header fie	eld contains the value 'call-
	completion' and an Expires he	ader set to '0', a SCCP UDT o	r XUDT is sent containing a
	TC-End CCBS CANCEL Data	field.	· ·
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 6.3.2/24			
Test Purpose name	SUBSCRIBE with m=NR and I	Expires header set to '0' is inte	erworked 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 field.			
TCAP Parameter values	TC-End: CCBS CANCEL			
SIP Parameter values	SUBSCRIBE: <request uri="">: m=NR</request>			
	Event:call-completion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>			
	Expires: 0			
Comments				
Message flows	Mg	MGCF	SCCP	
	A CCNR is successfully invoked			
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-End)	
	202 Accepted ←			
	Apply post test routine			

TP number	TP 408 020	Reference	7.5.11.1,		
			Table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	TC-Cont CCBS REQUEST (return result) is interworked into NOTIFY cc-service-retention				
	present				
Test Purpose	Ensure that on receipt of a SCCP UDT or XUDT containing a TC-Cont CCBS REQUEST				
	(return result) Data field and the RetainSupported element is set to TRUE, a NOTIFY				
	request is sent and the cc-state body is set to 'queued' the cc-service-retention body is				
	set to 'true'.				
TCAP Parameter values	TC-Cont: CCBS REQUEST (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	Mg	MGCF	SCCP		
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-Begin)		
	202 Accepted				
	NOTIFY <b>←</b>	<b>←</b>	(X)UDT (TC-Cont)		
	200 OK (NOTIFY) →				
		Apply post test routine			

TP number	TP_408_021	Reference	7.5.11.1,		
			Table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	TC-Cont CCBS REQUEST (return result) is interworked into NOTIFY cc-service-retention not present				
Test Purpose	Ensure that on receipt of a SCCP 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-completion Content-Type: application/call-completion cc-state: queued				
Comments	•				
Message flows	Mg SUBSCRIBE  202 Accepted  ←		SCCP (X)UDT (TC-Begin)		
	NOTIFY ← 200 OK (NOTIFY) →	_	(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 6.3.2/24				
Test Purpose name	CCBS Return error TC-End ShortTermDenial received, 480 Temporarily Unavailable				
	response to SUBCRIBE				
Test Purpose	Ensure that on receipt of a SCCP UDT or XUDT containing a TC-End CCBS REQUEST				
	(Return error) component in the Data field set to 'ShortTermDenial', a 480 Temporarily				
	Unavailable final response to the SUBCRIBE CCBS request is sent.				
TCAP Parameter values	TC Begin				
	CCBS REQUEST invoke				
	TC-End CCBS REQUEST (Return error)				
	ShortTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>				
	Event: call-completion				
Comments					
Message flows	Mg	MGCF	SCCP		
-	SUBCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)		
	480 Temporarily Unavailable	<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 6.3.2/24				
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 SC				
	(Return error) component in the		Denial', a 403 Forbidden final		
	response to the SUBCRIBE CO	CBS request is sent.			
TCAP Parameter values	TC Begin				
	CCBS REQUEST invoke				
	TC-End CCBS REQUEST (Return error)				
	LongTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>				
	Event: call-completion				
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBSCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)		
	403 Forbidden	<b>←</b>	← (X)UDT (TC-End)		
	Apply post test routine				

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

TP number	TP 408 025	Reference	7.5.11.1,		
			Table 7.5.11.1.3		
TSS reference	IMS-SS/CC/	<u> </u>			
Selection criteria	PICS 6.3.2/24				
Test Purpose name	CCNR Return error To response to SUBCRIE	- C	ived, 403 Forbidden unavailable		
Test Purpose	(Return error) compor	Ensure that on receipt of a SCCP UDT or XUDT containing a TC-End CCNR REQUEST (Return error) component in the Data field set to 'LongTermDenial', a 403 Forbidden final response to the SUBCRIBE CCNR request is sent.			
TCAP Parameter values	TC Begin CCNR REQUEST TC-End CCNR REQU				
SIP Parameter values	SUBSCRIBE: <reque Event: 0</reque 	est URI>, m=NR call-completion			
Comments		•			
Message flows	Mg SUBSCRIBE 403 Forbidden	M( → ← Apply post test	GCF SCCP  → (X)UDT (TC-Begin)  ← (X)UDT (TC-End)  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 6.3.2/24					
Test Purpose name	TC-End CCBS CANCEL rece	ived after CCBS was successf	ully invoked			
Test Purpose	Ensure that on receipt of an S	CCP UDT or XUDT containing	a TC-End CCBS CANCEL			
		s successfully invoked, a NOT				
	a "m" parameter set to 'BS' in	the Request line and a Subsc	ription-State header set to			
	'terminated ' and the subexp-p	params <b>reason</b> set to 'noresou	rce'.			
TCAP Parameter values	TC-End					
	CCBS CANCEL					
	or	or				
	TC-Abort					
SIP Parameter values	NOTIFY: <request uri=""></request>					
	Event:call-completi	on				
	Subscription-State:	terminated; reason=noresour	ce			
Comments						
Message flows	Mg	MGCF	SCCP			
	CCBS request successfully invoked					
	NOTIFY	- ←	(X)UDT (TC-End/ TC-Abort)			
	200 OK NOTIFY	•	,			
	Apply post test routine					

TP number	TP_408_027	Reference	7.5.11.1,	
			Table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	TC-End CCBS CANCEL received	ed after CCNR was successf	ully invoked	
Test Purpose	Ensure that on receipt of an SCCP UDT or XUDT containing a TC-End CCBS CANCEL or TC-Abort 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 or TC-Abort			
SIP Parameter values	NOTIFY: <request uri=""> Event:call-completic Subscription-State:</request>	on terminated; reason=noresourc	ce	
Comments				
Message flows	Mg	MGCF	SCCP	
	CCNR request successfully invoked			
	NOTIFY	<b>←</b>	(X)UDT (TC-End/ TC-Abort)	
	200 OK NOTIFY →			
		Apply post test routine		

TP number	TP_408_028	Reference	7.5.11.1,		
			Table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	Interworking of Remote user fr	ee indication at the I-MGCF			
Test Purpose	Ensure that on receipt of a SC				
	FREE invoke component in the	e Data field, a NOTIFY reques	t 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-completi				
	Content-Type: application/call-completion				
	cc-state: ready				
Comments					
Message flows	Mg	MGCF	SCCP		
	CCNR request successfully invoked				
	NOTIFY <b>←</b>	<b>←</b>	(X)UDT (TC-Cont)		
	200 OK (NOTIFY) →				
	Apply post test routine				

TP number	TP 408 029	Reference	7.5.11.2,			
			Table 7.5.11.2.1			
TSS reference	IMS-SS/CC/	<b>L</b>	14010 7.0.11.2.1			
Selection criteria	PICS 6.3.2/24					
Test Purpose name	Mapping of CCNR poss	sible indication in a 180 into t	he CCNR possible indicator in the			
	ACM					
Test Purpose	Ensure that on receipt of	of a 180 Ringing provisional	response and a Call-Info header is			
_	present set to the URI	of the terminating user and a	purpose parameter set to			
			CM is sent and a CCNR possible			
		present set to 'CCNR possibl				
ISUP Parameter values	IAM: Called party nun					
	Number digit					
	ACM: Called party status					
	Subscriber free					
		CCNR possible indicator				
	· ·					
	CCNR possi					
SIP Parameter values	180: Call-Info: <sip:c< th=""><th>alled party number digits&gt;;pu</th><th>urpose=call-completion</th></sip:c<>	alled party number digits>;pu	urpose=call-completion			
Comments						
Message flows	ISUP	MGCF	Mg			
_	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 180 Ringing			
		Apply post test ro				

TP number	TP_408_030	Reference	7.5.11.2,		
			Table 7.5.11.2.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	Mapping of CCNR possible in CPG	dication in a 180 into the CCNI	R possible indicator in the		
Test Purpose	present set to the URI of the t 'call-completion' and m param	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 purpose parameter set to 'call-completion' and m parameter ser to 'NR', a CPG is sent if an ACM was sent before and a CCNR possible indicator Parameter is present set to 'CCNR possible'.			
ISUP Parameter values	IAM: Called party number Number digits ACM: Called party status No indication CPG: Event indication Alerting CCNR possible indicat CCNR possible	or			
SIP Parameter values	180: Call-Info: <sip:called p<="" th=""><th>earty number digits&gt;;purpose=c</th><th>all-completion</th></sip:called>	earty number digits>;purpose=c	all-completion		
Comments		<u> </u>	·		
Message flows	ISUP	MGCF	Mg		
	IAM →	Start Ti/w2			
	ACM(no indication) ← CPG(Alerting) ←	Timeout Ti/w2 →	INVITE 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 6.3.2/24			
Test Purpose name	486 with Call-Info header is ma	apped into REL cause 17 and	CCBS possible	
Test Purpose	Ensure that on receipt of a 486 Busy Here and a Call-Info header is present set to the URI of the terminating user and a purpose parameter set to 'call-completion' and m parameter ser 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 pa<="" th=""><th>arty number digits&gt;;purpose=c</th><th>all-completion</th></sip:called>	arty number digits>;purpose=c	all-completion	
Comments			·	
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	REL ←	<b>←</b>	486 Busy Here	
	RLC →	<b>→</b>	ACK	
		Apply post test routine		

TP number	TP_408_	032	Reference		7.5.11.2,
					Table 7.5.11.2.1
TSS reference	IMS-SS/C	CC/			
Selection criteria	PICS 6.3	.2/24			
Test Purpose name	CCSS ca	Il indicator in IAM is r	napped into the m pa	arameter	in the Request line in the sent
Test Purpose					parameter is present set to
			st is sent and the Re	quest line	contains a "m" parameter set
	to 'NR' or	'BS'.			
ISUP Parameter values	IAM: CO	CSS call indicator			
		CCSS call			
SIP Parameter values	INVITE:	<request uri="">;m=</request>	NR <b>or</b> ;m=BS		
		Call-Info: <sip:calle< th=""><th>d party number digit</th><th>s&gt;;purpo</th><th>se=call-completion; m=BS <b>or</b></th></sip:calle<>	d party number digit	s>;purpo	se=call-completion; m=BS <b>or</b>
		NR			
Comments					
Message flows		SUP	MGCF		Mg
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
			Apply post test r	outine	·

TP number	TP_408_033	Reference	7.5.11.2,	
	11 _ 100_000	1101010100	Table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	TC-Begin CCBS REQUEST (ir	voke) is mapped into SUBCF	RIBE request invokes CCBS	
Test Purpose	Ensure that on receipt of a SCCP 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 from the CCBS REQUEST CallingPartyNumber the To header is derived from the CCBS REQUEST CalledPartyNumber the Event header field is set to			
	'call-completion' the Request li	ne contains the m parameter	set to 'BS'.	
TCAP Parameter values	TC-Begin CCBS REQUEST invoke CalledPartyNumber CallingPartyNumber retainSupported TRUE			
SIP Parameter values	To: <derived from<="" th=""><th>from the CCBS REQUEST Come the CCBS REQUEST Callentity: <derived callingpartynumber="" ccbs="" celtion<="" from="" th="" the=""><th>edPartyNumber &gt; S REQUEST</th></derived></th></derived>	from the CCBS REQUEST Come the CCBS REQUEST Callentity: <derived callingpartynumber="" ccbs="" celtion<="" from="" th="" the=""><th>edPartyNumber &gt; S REQUEST</th></derived>	edPartyNumber > S REQUEST	
Comments				
Message flows	SCCP (X)UDT(TC-Begin) →	MGCF  →  Apply post test routine	Mg SUBSCRIBE 202 Accepted	

TP number	TP_408_034	Reference	7.5.11.2,		
			Table 7.5.11.2.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	TC-Begin CCNR REQUEST (in	nvoke) is mapped into SUBCF	RIBE request invokes CCNR		
Test Purpose	Ensure that on receipt of a SC				
	(invoke) component, a SUBSC				
	Identity header are derived from				
	header is derived from the CCI				
	is set to 'call-completion' the R	equest line contains the m pa	rameter set to 'NR'.		
TCAP Parameter values	TC-Begin				
	CCNR REQUEST invoke				
	CalledPartyNumber				
	CallingPartyNumber	CallingPartyNumber			
	retainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR			
	From: <derived callingpartynumber="" ccnr="" from="" request="" the=""></derived>				
	To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>				
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>				
	CallingPartyNumber >				
	Event: call-comp	letion Expires: <	any value>		
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/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	TC-Cont CCBS SUSPEND is i	nterworked into PUBLISH with	n m=BS and PIDF basic	
	status "closed"			
Test Purpose	CCBS or CCNR is invoked and			
	TC-Cont CCBS SUSPEND inv			
	m parameter in the Request U			
	a PIDF XML MIME body is pre	sent the presence status set to	o 'closed'.	
TCAP Parameter values	TC-Cont			
	CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=BS or ;m=NR</request>			
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>closed</basic>			
Comments	Note the XML semantic is schematically the alias is not considered.			
Message flows	SCCP MGCF Mg			
	Invoke a successful CCBS/CCNR request and remote user is now free			
	(X)UDT(TC-Cont) → PUBLISH			
	← 200 OK (PUBLISH)			
		Apply post test routine		

TP number	TP_408_036	Reference	7.5.11.2,	
			Table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	TC-Cont CCBS RESUME is infopen"	terworked into PUBLISH with	m=NR and PIDF basic status	
Test Purpose	CCBS or CCNR is invoked and the remote user is free the originating user is suspended. Ensure that on receipt of a TC-Cont CCBS SUSPEND invoke component, a PUBLISH request is sent containing the m parameter in the Request URI set to 'BS' or 'NR' the Event header set to 'presence' and a PIDF XML MIME body is present the presence status set to 'open'.			
TCAP Parameter values	TC-Cont CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">;m='BS' or ;m=NR Event: presence Content-Type: application/pidf+xml <?xml version="1.0" encoding="UTF-8"?> <pre></pre></request>			
Comments	Note the XML semantic is schematically the alias is not considered.			
Message flows	SCCP Successful CCBS/C (X)UDT(TC-Cont) →	MGCF CCNR request and originatir  → ← Apply post test routine	Mg ng user suspended PUBLISH 200 OK (PUBLISH)	

TP number	TP_408_037	Reference	7.5.11.2,		
			Table 7.5.11.2.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	TC-End CCBS CANCEL is interpreted to '0'	erworked into SUBSCRIBE wit	th m=BS or NR and Expires		
Test Purpose	A CCBS or CCNR is successfully invoked. Ensure that on receipt of a SCCP UDT or XUDT containing a TC-End CCBS CANCEL or TC-Abort 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 CANCEL or	TC-Abort			
SIP Parameter values	SUBSCRIBE: <request uri="">; m=BS or ;m='NR' Event:call-completion Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling></request>				
	or m=NR				
	Expires: 0				
Comments					
Message flows	SCCP	MGCF	Mg		
	A CCBS or CCNR is successfully invoked				
	(X)UDT (TC-End/ TC-Abort)	<b>&gt;</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 6.3.2/24			
Test Purpose name	A NOTIFY cc-state 'queued' a	nd cc-service-retention 'true' is	s mapped into a TC-Cont	
	CCBS REQUEST (return resu	lt) retain supported		
Test Purpose	Ensure that on receipt of a NC			
	'call-completion' the cc-state b	ody is set to 'queued' and the	cc-service-retention body is	
	set to 'true', a SCCP UDT or X	UDT TC-Cont is sent and the	CCBS REQUEST (return	
	result) component is present the	ne RetainSupported element i	s set to 'TRUE'.	
TCAP Parameter values	TC-Cont: CCBS REQUEST (i	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	
	CCBS request already invoked			
	(X)UDT (TC-Cont) ←	<b>←</b>	NOTIFY	
	→ 200 OK (NOTIFY)			
	Apply post test routine			

TP number	TP_408_039	Reference	7.5.11.2,		
			Table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.2/24				
Test Purpose name	A NOTIFY cc-state 'queued' a	nd no cc-service-retention bod	y present is mapped into a		
	TC-Cont CCBS REQUEST (re	turn result) retain not supporte	ed		
Test Purpose	Ensure that on receipt of a NC				
	'call-completion' the cc-state b				
	not present, a SCCP UDT or >				
	result) component is present the	ne RetainSupported element is	s set 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	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 6.3.2/24			
Test Purpose name	A NOTIFY cc-state 'queued'	and cc-service-retention 'true' is	s mapped into a TC-Cont	
	CCNR REQUEST (return res	ult) retain supported		
Test Purpose		OTIFY request the Event head		
	'call-completion' the cc-state	body is set to 'queued' and the	cc-service-retention body is	
	set to 'true', a SCCP UDT or	XUDT TC-Cont is sent and the	CCNR REQUEST (return	
	result) component is present	the RetainSupported element i	s set to 'TRUE'.	
TCAP Parameter values	TC-Cont: CCNR REQUEST	(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) ←	<del>-</del>	NOTIFY	
		<b>→</b>	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 6.3.2/24			
Test Purpose name	A NOTIFY cc-state 'queued' a	ind cc-service-retention 'true' is	s mapped into a TC-Cont	
	CCNR REQUEST (return resi	ult) retain not supported		
Test Purpose		OTIFY request the Event head		
		oody is set to 'queued' and the		
		XUDT TC-Cont is sent and the		
	result) component is present t	he RetainSupported element is	s set to 'FALSE'.	
TCAP Parameter values	TC-Cont: CCNR 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	
	CCNR request already invoked			
	(X)UDT (TC-Cont) ←	<b>←</b>	NOTIFY	
		<b>→</b>	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 6.3.2/24				
Test Purpose name	CCBS request unsucces	ssful 480 Temporarily Unav	ailable is received		
Test Purpose	Ensure that on receipt of a 480 Temporarily Unavailable final response upon CCBS was requested, a SCCP UDT or XUDT 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)	←	← 480 Temporarily Unavailable		
	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 6.3.2/24			
Test Purpose name	CCNR request unsuccessful 4	80 Temporarily Unavailable i	s received	
Test Purpose	Ensure that on receipt of a 480			
	requested, a SCCP UDT or XL	JDT TC-End CCNR REQUES	ST (Return error) component	
	containing the ShortTermDenia	al Element is sent.		
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> :	SUBCRIBE	
	(X)UDT (TC-End) ←	<b>←</b> .	480 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 6.3.2/24			
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 SCCP UDT or XUDT TC-End CCBS REQUEST (Return error) component containing the LongTermDenial Element is sent.			
TCAP Parameter values	TC-End CCBS REQUE Long	EST (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 6.3.2/24			
Test Purpose name	CCNR request unsucc	cessful 403 Forbidden is se	ent	
Test Purpose	Ensure that on receipt of a 403 Forbidden final response upon CCNR was requested, a SCCP UDT or XUDT TC-End CCNR REQUEST (Return error) component containing the LongTermDenial Element is sent.			
TCAP Parameter values	TC-End CCNR REQU	JEST (Return error) gTermDenial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>			
Comments		•		
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin)	<b>→</b>	→ SUBCRIBE	
	(X)UDT (TC-End)	<b>←</b>	← 403 Forbidden	
	Apply post test routine			

TP number	TP_408_046	Reference	7.5.11.2,	
			Table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.2/24			
Test Purpose name	CCBS invoked. NOTIF	Y with State header field se	et to "terminated" received TC-End is	
	sent			
Test Purpose			ubscription-State header is set to	
			'noresource' upon CCBS was	
	successfully invoked, a	a SCCP UDT or XUDT TC-E	End message is sent containing the	
	CCBS CANCEL comp	onent.		
TCAP Parameter values	TC-End	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	
			→ 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 6.3.2/24			
Test Purpose name	CCNR invoked at the O-MGCF NOTIFY with State header field set to "terminated" received TC-End is sent			
Test Purpose	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params <b>reason</b> set to 'noresource' upon CCNR was successfully invoked, a SCCP UDT or XUDT TC-End message is sent containing the CCBS CANCEL component.			
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""></request>			
Comments		,		
Message flows	SCCP	MGCF	Mg	
	CCNR request successfully invoked			
	(X)UDT (TC-End)	<b>←</b>	← NOTIFY	
			→ 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 6.3.2/24				
Test Purpose name	Interworking of Remote	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				
			T or XUDT TC-Cont message is sent		
	containing the CCBS RI	EMOTE USER FREE com	ponent.		
TCAP Parameter values	TC-Cont				
	CCBS REMOTE USER FREE				
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: ready				
Comments					
Message flows	SCCP	MGCF	Mg		
	CCBS or CCNR request successfully invoked				
	(X)UDT (TC-Cont)	<b>←</b>	← NOTIFY		
			→ 200 OK (NOTIFY)		
	Apply post test routine				

## 6.3.9 Communication Waiting (CW)

TP number	TP_409_001	Reference	7.5.12		
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 6.3.2/8				
Test Purpose name	Mapping of Generic notification	'call waiting' in an ACM into A	Alert-Info header		
Test Purpose		Ensure that on receipt of an ACM the Called party status indicator is set to 'subscriber			
	free' and a Generic notification	indicator parameter is presen	t set to "Call is a waiting call',		
	a 180 Ringing is sent. An Alert-	Info header is present and the	e urn is set to		
	'urn:alert:service:call-waiting'.				
ISUP Parameter values	<b>ACM:</b> Backward call indicator				
	Called party status i	Called party status indicator			
	Subscriber free				
	Generic notification				
	Call is a waiting call				
SIP Parameter values	180: Alert-Info				
	urn:alert:service:call-waiting				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	180 Ringing ←	<b>←</b>	ACM		
	Apply post test routine				

TP number	TP 409 002	Reference	7.5.12		
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 6.3.2/8				
Test Purpose name	Mapping of Generic notification	r 'call waiting' in a CPG into Al	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		<u> </u>			
Message flows	Mg	MGCF	ISUP		
	INVITE -	<del>→</del>	IAM ACM		
	180 Ringing ← ← CPG  Apply post test routine				

TP number	TP_409_003	R	eference		7.5.12	
TSS reference	IMS-SS/CW/					
Selection criteria	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
	IAM ACM	<b>→</b>		<b>→</b> <b>←</b>	INVITE 100 Trying 180 Ringing	-
	Apply post test routine					

TP number	TP_409_004	Reference	7.5.12	
TSS reference	IMS-SS/CW/	·	·	
Selection criteria	PICS 6.3.2/8	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	to 'urn:alert:service	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	Alerting Generic not	CPG: Event indicator		
SIP Parameter values	180: Alert-Info urn:alert	t:service:call-waiting		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
	ACM	T i/w2 expired	, ,	
	CPG	<b>←</b>	← 180 Ringing	
	Apply post test ro	outine		

## Annex A (informative): Bibliography

Recommendation ITU-T Q.764 (12/1999): "Signalling system No. 7 - ISDN User Part signalling procedures".

## History

Document history		
V3.1.1	May 2011	Publication
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