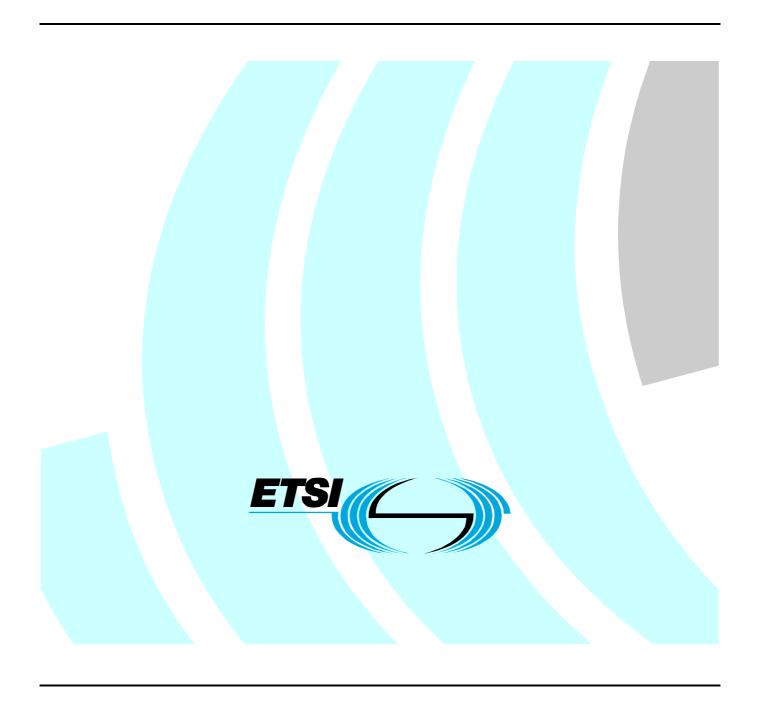
ETSITS 102 710-2 V3.1.1 (2011-05)

Technical Specification

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



Reference DTS/INT-00019-2

Keywords
ISUP, SIP, testing, TSS&TP

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Foreword

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

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

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

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

1 Scope

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

2 References

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

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

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

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

- [1] ETSI TS 129 163: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 Release 8)".
- [2] ETSI TS 102 710-1: "IMS Network Testing (INT); Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 8); Part 1: Protocol Implementation Conformance Statement (PICS)".
- [3] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [4] ITU-T Recommendation T.38: "Procedures for real-time Group 3 facsimile communication over IP networks".
- [5] ITU-T Recommendation Q.850: "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part".

2.2 Informative references

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

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

3 Definitions, symbols and abbreviations

3.1 Definitions

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

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

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

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

NOTE: This may contain additional information.

3.2 Symbols

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

3.3 Abbreviations

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

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

REL RELease message
SUT System Under Test
TP Test Purpose

4 Test Suite Structure (TSS)

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

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

ISUP-SIP			
	Basic call	Sending_of_INVITE	TP_201_xxx
		Receipt_of_COT	TP_202_xxx
		Sending_of_ACM	TP_203_xxx
		Sending_of_CPG	TP_204_xxx
		Receipt_of_200_OK	TP_205_xxx
		Sending_of_ANM	TP_206_xxx
		Sending_of_CON	TP_207_xxx
		Receipt_of_4xx-5xx-6xx	TP_208_xxx
		Receipt_of_BYE	TP_209_xxx
		Receipt_of_REL	TP_210_xxx
		Receipt_of_RSC-GRS-CGB	TP_211_xxx
		Autonomous_Release	TP_212_xxx

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

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

5 Test Purposes (TP)

5.1 Introduction

For each requirement in [1] a TP is defined.

5.1.1 TP naming convention

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

Table 5.1.1-1: TP identifier naming convention scheme

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

5.1.2 Test strategy

As the base standard TS 129 163 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 102 710-1 [2]. The criteria applied include the following:

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

5.1.3 Test purpose structure

The test purpose structure is according to the test suite structure (TSS). The Reference column in each Test Purpose refers to the basic specification [1] except stated explicitly.

6 Test purposes (TP)

6.1 SIP-ISUP protocol interworking

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

6.1.1.1 Sending of IAM

TP number	TP_101_001	Refer	ence		7.2.3.1.	.1
TSS reference	SIP-ISUP/Basic call/S	ending_of_IAM	/			
Selection criteria						
Test Purpose name	Sending of IAM					
Test Purpose	Ensure that on receptimessage.	ion of a SIP IN\	ITE requesting	a session	on, the I-I	MGCF sends an IAM
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	→		→	IAM	
	100 Trying	←				
		Арр	ly post test ro	utine		

TP number	TP_101_002					
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	PICS 7.1.1/1 AND PICS 7.2.1/1 AND PICS 7.2.1/2					
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	IAM: Nature of connection indicator = 'continuity check performed on a previous circuit' or					
	'continuity check required'					
	COT: Continuity indicator = 'Continuity check successful'					
SIP Parameter values	INVITE: Supported: precondition, 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos none remote sendrecv					
	100. Domino. 100 rel					
	183: Require: 100rel SDP					
	SDP a=curr:qos local none a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	a=com.qos remote senareev					
	UPDATE:					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:gos mandatory remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
	a=des:qos mandatory local sendrecv					
Comments	a=des:qos mandatory remote sendrecv					
Message flows	Mg MGCF ISUP					
Wessage nows	INVITE → IAM					
	100 Trying					
	183 Session Progress ← PRACK →					
	UPDATE → COT 200 OK (UPDATE) ←					
	Apply post test routine					

TP number	TP_101_003	Reference	7.2.3.1.1			
TSS reference	SIP-ISUP/Basic cal					
Selection criteria	PICS 7.1.1/1 AND F	PICS 7.2.1/1 AND NOT PICS 7.2.1	/2			
Test Purpose name	Preconditions support indicated in the Supported header					
Test Purpose		conditions procedure is successful				
			er the UPDATE was received. The			
		n indicator is set to 'continuity ched				
ISUP Parameter values		nection indicator = 'continuity check	k is not required'			
SIP Parameter values		precondition, 100rel				
		rr:qos local none				
	a=curr:qos remote none					
		s:qos mandatory local sendrecv				
	a=de:	s:qos none remote sendrecv				
	192. Doguiro, 100ro	N.				
	183: Require: 100re	rr:qos local none				
		rr:qos local none				
		s:qos mandatory local sendrecv				
		s:qos mandatory remote sendrecv				
		nf:qos remote sendrecv				
	<u> </u>					
	UPDATE:					
	SDP a=cui	rr:qos local sendrecv				
		rr:qos remote none				
		s:qos mandatory local sendrecv				
	a=de:	s:qos mandatory remote sendrecv				
	200 OK UPDATE					
		rr:qos local sendrecv				
	-	rr:qos remote sendrecv				
		s:gos mandatory local sendrecv				
		s: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 rou	tine			

TP number	TP_101_004					
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	PICS 7.1.1/1 AND PICS 7.2.1/1 AND PICS 7.2.1/2					
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	IAM: Nature of connection indicator = 'continuity check performed on a previous circuit' or					
	'continuity check required'					
	COT: Continuity indicator = 'Continuity check successful'					
SIP Parameter values	INVITE: Require: precondition, 100rel					
	SDP a=curr:qos local none					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:qos none remote sendrecv					
	402. Domino 400rel					
	183: Require: 100rel SDP a=curr:gos local none					
	SDP a=curr:qos local none a=curr:qos remote none					
	a=des:gos mandatory local sendrecv					
	a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv					
	a=com.qos remote senticov					
	UPDATE:					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv					
	a=des:gos mandatory remote sendrecv					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
	a=curr:qos remote sendrecv					
	a=des:qos mandatory local sendrecy					
Comments	a=des:qos mandatory remote sendrecv					
Message flows	Mg MGCF ISUP					
Wessage nows	INVITE → IAM					
	100 Trying					
	183 Session Progress					
	PRACK -					
	200 OK (PRACK)					
200 OK (UPDATE)						
	Apply post test loutille					

TSS reference SIP-ISUP/Basic call/Sending_of_IAW/ Selection criteria PICS 7.1.1/1 AND PICS 7.2.1/1 AND PICS 7.2.1/2 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'. IAM: Nature of connection indicator = 'continuity check is not required'. INVITE: Require: Precondition, 100rel SDP a=curr:gos local none a=curr:gos remote none a=des:gos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv UPDATE: SDP a=curr:gos local sendrecv a=curr:gos remote none a=des:gos mandatory local sendrecv a=des:gos mandatory local sendrecv a=des:gos mandatory local sendrecv a=curr:gos remote none a=des:gos mandatory local sendrecv a=des:gos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:gos remote sendrecv a=des:gos mandatory remote sendrecv a=des:gos	TP number	TP_101_005		Reference		7.2.3.1.1	
Test Purpose name	TSS reference	SIP-ISUP/Bas	sic call/Sending_o	of_IAM/			
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 IIAM: Nature of connection indicator = 'continuity check is not required'. IVITE: Require: precondition, 100rel	Selection criteria	PICS 7.1.1/1	AND PICS 7.2.1/	1 AND PICS 7.2.1/2	<u>)</u>		
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'. INVITE: Require: precondition, 100rel SDP a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv IPDATE: SDP a=curr:qos local none a=curr:qos remote none 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 remote sendrecv a=curr:qos remote none a=des:qos mandatory remote sendrecv a=curr:qos remote none a=des:qos mandatory remote sendrecv a=des:qos mandator	Test Purpose name	Preconditions	support indicate	d in the Require hea	ader		
Nature of connection indicator is set to 'continuity check is not required'.	Test Purpose	Ensure that the	ne Preconditions	procedure is succes	sful if the	support of Pr	recondition is
IAM: Nature of connection indicator = 'continuity check is not required'							
SIP Parameter values INVITE: Require: precondition, 100rel SDP a=curr:gos local none a=curr:gos monte none a=des:gos mandatory local sendrecv a=des:gos monte remote sendrecv 183: Require: 100rel SDP a=curr:gos remote none a=des:gos mandatory local sendrecv a=des:gos mandatory local sendrecv a=des:gos mandatory remote sendrecv UPDATE: SDP a=curr:gos local sendrecv a=curr:gos remote none a=des:gos mandatory local sendrecv a=curr:gos remote none a=des:gos mandatory local sendrecv a=curr:gos remote sendrecv a=curr:gos remote sendrecv a=des:gos mandatory local sendrecv a=des:gos mandatory remote sendrecv a=des:gos mandatory remote sendrecv a=des:gos mandatory local sendrecv a=des:gos mandatory local sendrecv a=des:gos mandatory remote sendrecv by mandatory remote sendrecv a=des:gos gos gos gos gos gos gos gos gos gos							
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local 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 none a=des:qos mandatory remote sendrecv a=des:qos mandatory local sendrecv a=curr:qos remote s	ISUP Parameter values				heck is no	t required'	
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183: Require: 100rel SDP					V		
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv a=curr:qos local sendrecv a=des:qos mandatory remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv because the description of the de			a=des:qos none	remote sendrecv			
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv a=curr:qos local sendrecv a=des:qos mandatory remote sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv because the description of the de		192: Doquiro	100rol				
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a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP					V		
a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv BMessage flows Mg MGCF ISUP INVITE 100 Trying ← 183 Session Progress PRACK 200 OK (PRACK) UPDATE → 10M TOTATE → 10M TOT							
UPDATE: SDP					001		
SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv Bessage flows Mg MGCF ISUP INVITE 100 Trying 4 183 Session Progress PRACK PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) A COMMENTAL AND			·				
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv		-					
a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv Comments Mg MGCF ISUP INVITE 100 Trying ← 183 Session Progress ← PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) → IAM		SDP	a=curr:qos local	sendrecv			
a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv Comments Mg MGCF ISUP INVITE → 100 Trying ← 183 Session Progress ← PRACK → 200 OK (PRACK) ← UPDATE → 100 OK (UPDATE) ← IAM							
200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv ISUP INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)							
SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv Message flows Mg MGCF ISUP INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) INVITE			a=des:qos mano	datory remote sendr	ecv		
SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv Message flows Mg MGCF ISUP INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) INVITE		200 OK UPD	ATE				
a=curr:qos remote sendrecv a=des:qos mandatory 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 → 100 TYPATE → 100 TYPATE → 100 OK (UPDATE) → 100 OK (UPDATE)		SDP	a=curr:gos local	sendrecv			
a=des:qos mandatory remote sendrecv Comments Mg MGCF ISUP INVITE → 100 Trying ← 183 Session Progress ← PRACK → 200 OK (PRACK) ← UPDATE → IAM 200 OK (UPDATE) ← → IAM IAM →							
Message flows Mg MGCF ISUP INVITE → 100 Trying ← 183 Session Progress ← PRACK → 200 OK (PRACK) ← UPDATE → IAM 200 OK (UPDATE) ← → IAM			a=des:qos mano	datory local sendrec	V		
Mg MGCF ISUP INVITE → 100 Trying ← 183 Session Progress ← PRACK → 200 OK (PRACK) ← UPDATE → 200 OK (UPDATE) ←			a=des:qos mano	datory remote sendr	ecv		
INVITE → 100 Trying ← 183 Session Progress ← PRACK → 200 OK (PRACK) ← UPDATE → IAM 200 OK (UPDATE)							
100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) + IAM	Message flows		_				ISUP
183 Session Progress ← PRACK → 200 OK (PRACK) ← UPDATE → IAM 200 OK (UPDATE) ←							
PRACK 200 OK (PRACK) UPDATE → IAM 200 OK (UPDATE)							
200 OK (PRACK) ← UPDATE → IAM 200 OK (UPDATE) ←			0				
UPDATÈ → IAM 200 OK (UPDATE) ←							
200 OK (UPDATE) ←		,					
Apply post test routine							
Apply poor tool routing				Apply post test	routine		

TP number	TP_101_006			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.1/1 AND PICS 7.2.1/2			
Test Purpose name	Preconditions support indicated in the Supported header COT procedure supported			
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is			
	indicated in the Supported header. The IAM is immediately sent. The Nature of connection			
	indicator is set to 'COT to be expected'. After the UPDATE was received, a COT is sent.			
ISUP Parameter values	IAM: Nature of connection indicator = 'COT to be expected'			
	COT: Continuity indicator = 'Continuity check successful'			
SIP Parameter values	INVITE: Supported: precondition, 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos none remote sendrecv			
	100 D : 100 L			
	183: Require: 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv			
	a=con.qos remote senurecy			
	UPDATE:			
	SDP a=curr:gos local sendrecv			
	a=curr:gos remote none			
	a=des:gos mandatory local sendrecv			
	a=des:gos mandatory remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv			
	a=curr:qos remote sendrecv			
	a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv			
Comments	1010			
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying ←			
	183 Session Progress			
	PRACK →			
	200 OK (PRACK) ←			
	UPDATE → COT			
	200 OK (UPDATE) ←			
	Apply post test routine			

TP number	TP_101_007 Reference	7.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.1/1 AND NOT PICS 7.2.1/2			
Test Purpose name	Preconditions support indicated in the Supported header			
Test Purpose	Ensure that the Preconditions procedure is successful if t			
	indicated in the Supported header. The IAM is sent after			
	Nature of connection indicator is set to 'no COT to be exp			
ISUP Parameter values	IAM: Nature of connection indicator = 'no COT to be expe	ected'		
SIP Parameter values	INVITE: Supported: precondition, 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos none remote sendrecv			
	192. Doguiro, 100rol			
	183: Require: 100rel SDP a=curr:gos local none			
	SDP a=curr:qos local none a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv			
	a=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 mandatory remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv			
	a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv			
Comments	a-accided mandatory formate contained			
Message flows	Mg MGCF	ISUP		
	INVITE ->			
	100 Trying ←			
	183 Session Progress			
	PRACK >			
	200 OK (PRACK) ←			
	,	→ IAM		
	200 OK (UPDATE)			
	Apply post test routine			
	11 71			

TP number	TP_101_008 Reference 7.2.3.1.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.1/1 AND PICS 7.2.1/2		
Test Purpose name	Preconditions support indicated in the Require header		
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is		
	indicated in the Require header. The IAM is immediately sent. The Nature of connection		
	indicator is set to 'COT to be expected'. After the UPDATE was received, a COT is sent		
ISUP Parameter values	IAM: Nature of connection indicator = 'COT to be expected'		
	COT: Continuity indicator = 'Continuity check successful'		
SIP Parameter values	INVITE: Require: precondition, 100rel		
	SDP a=curr:qos local none		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos none remote sendrecv		
	100 D : 100 I		
	183: Require: 100rel		
	SDP a=curr:qos local none		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv		
	a=conf:qos remote sendrecv		
	a=con.qos remote sentirecv		
	UPDATE:		
	SDP a=curr:qos local sendrecv		
	a=curr:qos remote none		
	a=des:gos mandatory local sendrecv		
	a=des:gos mandatory remote sendrecv		
	200 OK UPDATE		
	SDP a=curr:qos local sendrecv		
	a=curr:qos remote sendrecv		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
Comments	1010		
Message flows	Mg MGCF ISUP		
	INVITE → IAM		
	100 Trying ←		
	183 Session Progress		
	PRACK →		
	200 OK (PRACK) ←		
	UPDATE → COT		
	200 OK (UPDATE)		
	Apply post test routine		

TP number	TP_101_009		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.1/1 AND PICS 7.2.1/2		
Test Purpose name	Preconditions support indicated in the Require header		
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is		
	indicated in the Require header. The IAM is sent after the UPDATE was received. The		
	Nature of connection indicator is set to 'no COT to be expected'.		
ISUP Parameter values	IAM: Nature of connection indicator = 'no COT to be expected'		
SIP Parameter values	INVITE: Require: precondition, 100rel		
	SDP a=curr:qos local none		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos none remote sendrecv		
	100. Demiire, 100rel		
	183: Require: 100rel SDP a=curr:gos local none		
	SDP a=curr:qos local none a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	a=conf:qos remote sendrecv		
	a-com.qos remote sendrecv		
	UPDATE:		
	SDP a=curr:qos local sendrecv		
	a=curr:qos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	and OKLUDDATE		
	200 OK UPDATE SDP a=curr:gos local sendrecv		
	a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
Comments	a=ues.qus manuatory remote senureuv		
Message flows	Mg MGCF ISUP		
	INVITE >		
	100 Trying ←		
	183 Session Progress		
	PRACK		
	200 OK (PRACK)		
	UPDATE → IAM		
	200 OK (UPDATE)		
	Apply post test routine		
L			

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

TP number	TP_101_011	Refere	nce		7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Send	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria						
Test Purpose name	Unsupported media type	is rejected ses	ssion successfu	ال		
Test Purpose	Ensure that an unsuppor port number '0' for the co			ne SUT	sends in t	the SDP answer the
ISUP Parameter values						
SIP Parameter values	INVITE: SDP: m=audio 4711 m= video 4713 180 Ringing or 183 Sess SDP: m=audio <app 0="" m="video" rt<="" th=""><th>3 RTP/AVP 31 ion Progress propriate Port #</th><th></th><th></th><th></th><th></th></app>	3 RTP/AVP 31 ion Progress propriate Port #				
Comments						
Message flows	Mg INVITE 100 Trying	→	MGCF	→	IAM	ISUP
	CASE A 180 Ringing CASE B 183 Session Progress	+	/ post test rou	← tine	ACM	

TP number	TP_101_012	Reference	7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/		
Selection criteria				
Test Purpose name	Unsupported codec is deselect	ted		
Test Purpose	Ensure that the SUT removes	a codec from the codec list in	the SDP answer if the codec is	
	an unsupported codec.			
ISUP Parameter values				
SIP Parameter values	INVITE:			
	SDP: m=audio 4711 RTP/	AVP <unsupported codec=""> 8</unsupported>		
	180 Ringing or 183 Session Progress			
	SDP: m=audio <apporpriat #="" port=""> RTP/AVP 8</apporpriat>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	→	IAM	
	100 Trying ←	ı		
		+	ACM	
	CASE A			
	180 Ringing ←	•		
	CASE B			
	183 Session Progress ←			
		Apply post test routine		

TP number	TP_101_013	Reference	7.2.3.1.1	
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	-			
Test Purpose name	INVITE request without SDP offer received			
Test Purpose		Ensure that on receipt of an INVITE request without a SDP offer, the SUT sends a SDP offer in the first reliable reliable non-failure message.		
ISUP Parameter values				
SIP Parameter values	INVITE: Supported: 100rel			
	180 Ringing or 183 Session F	Progress		
	SDP: m=audio 4711 RT			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	→	IAM	
	100 Trying	←		
		←	ACM	
	CASE A			
	1.00	←		
		→		
	200 OK PRACK	(
	CASE B			
	3	←		
		→		
	200 OK PRACK	←		
		Apply post test routine		

TP number	TP_101_014	Reference	7.2.3.1.1		
TSS reference			1.2.3.1.1		
	SIP-15UP/Basic call/Send	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria					
Test Purpose name	To header tag is sent in th	To header tag is sent in the first provisional response			
Test Purpose	Ensure that a To header to	ag is contained in the first p	provisional response		
ISUP Parameter values					
SIP Parameter values	INVITE: To: <uri></uri>				
	180 Ringing or 183 Session	on Progress: To: <uri>; <ta< th=""><th>ag></th><th></th></ta<></uri>	ag>		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	→	→ IAM		
	100 Trying	←			
	, 9		← ACM		
	CASE A		7.0111		
		←			
	180 Ringing	~			
	OAGE B				
	CASE B	_			
	183 Session Progress	←			
	Apply post test routine				

TP number	TP_101_015	Reference	7.2.3.1.2	
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria				
Test Purpose name	Coding of called party	y number		
Test Purpose	Ensure that an IAM is sent after an INVITE request was received.			
	 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'. 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'. The internal Network Number Indicator = 'routing to internal network number not allowed' 			
	(Recommendation E.	cator = 'ISDN (Telephony) nu 164 [i 1])'	mbering pian	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	→	→ IAM	
	100 Trying	←		
		Apply post test	routine	

TP number	TP_101_016	Reference	7.2.3.1.2.1
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/	
Selection criteria	PICS 7.2.1/21		
Test Purpose name	SendingCompleteInd	ication is mapped into a l	hex digit 'F' in the called party number
Test Purpose	Ensure that on receipt of a PSTN XML SendingCompleteIndication element a hex digit 'F' is sent al last digit in the called party number		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGC	CF ISUP
	INVITE	→	→ IAM
	100 Trying	←	
		Apply post	test routine

TP number	TP_101_017	Reference	7.2.3.1.2.2	
TSS reference		SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 7.1.1/1	PICS 7.1.1/1		
Test Purpose name	Nature of connection	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 = 'continuity check not required' or 'continuity check required' or 'continuity check performed on a previous circuit' Echo control device indicator TMR audio 3,1 kHz or speech = outgoing echo control device included TMR 64 kBit/s or HLC 'Facsimile Group 2/3' = 'outgoing echo control device not included'			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test r	ISUP → IAM outine	

TP number	TP_101_018	Reference	7.2.3.1.2.2			
TSS reference	SIP-ISUP/Basic call/Sending_c	of_IAM/				
Selection criteria	PICS 7.1.1/2					
Test Purpose name	Nature of connection indicator					
Test Purpose	Ensure that an IAM is sent after	r an INVITE request was re	eceived.			
	The nature of connection indicate	ator is set				
	Satellite indicator = 'no satelli	te circuit in the connection'				
	Continuity check indicator =	'no COT to be expected or	'COT to be expected'			
	Echo control device indicato	r = outgoing echo control d	evice included			
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE ->	-	→ 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/Sending of IAM/						
Selection criteria	NOT PICS 7.2.1/5							
Test Purpose name	Forward Call indicator							
Test Purpose	Ensure that an IAM is sent afte	r an INIVITE request was recei	vod If no DSTN VMI					
rest Purpose		•						
	attachment is present and the	ecelpt of TIVIR audio ,the Forw	ard call indicator is coded as					
	follows:							
	 End-to-end method indicate method available) 	or = ('00') no end-to-end meth	od available (only link-by-link					
	Interworking indicator = ('1') interworking encountered							
		licator = ('0') no end-to-end info	ormation available					
		ator = ('0') ISDN user part/BIC						
			=					
	ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all							
	the way							
	ISDN access indicator = ('0') originating access non-ISDN							
	 SCCP method indicator = 	('00') no indication						
ISUP Parameter values								
SIP Parameter values								
Comments								
Message flows	Mg MGCF ISUP							
	INVITE > IAM							
	100 Trying							
	Apply post test routine							

TP number	TP_101_020	Reference	7.2.3.1.2.3				
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/						
Selection criteria	NOT PICS 7.2.1/5 AND NOT P	ICS 7.2.1/6					
Test Purpose name	Forward Call indicator						
Test Purpose	method available) Interworking indicator = ('1 End-to-end information indicator = ISDN user part/BICC indicator = ISDN user part/BICC preference the way ISDN access indicator = ('0	eceipt of TMR 64 kBit/s has no ward call indicator is coded as or = ('00') no end-to-end methon ') interworking encountered icator = ('0') no end-to-end info ator = ('0') ISDN user part/BICon erence indicator = ('01') ISDN und ('0') originating access non-ISDN	o impact of the coding of the follows: od available (only link-by-link ormation available C not used all the way ser part/BICC not required all				
	 SCCP method indicator = 	SCCP method indicator = ('00') no indication					
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE →	→	IAM				
	100 Trying ←						
		Apply post test routine					

TP number	TP 101 021	Reference	7.2.3.1.2.3				
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/						
Selection criteria	NOT PICS 7.2.1/5 AND PICS 7						
Test Purpose name	Forward Call indicator						
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the receipt of TMR 64 kBit/s has impact of the coding of the Forward call indicator, the Forward call indicator is coded as follows: • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available) • Interworking indicator = ('0') no interworking encountered • End-to-end information indicator = ('0') no end-to-end information available • ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way • ISDN access indicator = ('1') originating access ISDN						
	SCCP method indicator = ('00') no indication						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg MGCF ISUP						
	INVITE → IAM						
	100 Trying ←						
		Apply post test routine					

TP number	TP_101_022					
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Forward Call indicator					
Test Purpose	 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: End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available) Interworking indicator = ('0') no interworking encountered End-to-end information indicator = ('0') no end-to-end information available ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all 					
ISUP Parameter values	the way ISDN access indicator = ('1') originating access ISDN CCP method indicator = ('00') no indication IAM: Forward call indicator					
SIP Parameter values	INVITE: PSTM XML MIME body xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet3 CodingStandard>00< Location>yyyy< ProgressOctet4 ProgressDescription>0000110<					
Comments						
Message flows	Mg MGCF ISUP INVITE → IAM 100 Trying ← Apply post test routine					

TP number	TP_101_023	Reference	7.2.3.1.2.4			
TSS reference	SIP-ISUP/Basic call/Sending_c	f_IAM/				
Selection criteria						
Test Purpose name	Mapping of calling party categor	ry				
Test Purpose	Ensure that a cpc parameter SIP_CPC received in the P-Asserted-Identity URI parameter and the "language" in the Accept-Language SIP_LANG header is mapped into the calling party parameter category ISUP_CPC in the sent IAM. The mapping is described in table 6.1.1.1-1					
ISUP Parameter values	IAM: Calling Party Category =	= ISUP_CPC				
SIP Parameter values	INVITE: P-Asserted-Identity = PARAM, Accept-Language = SIP_LANG					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → 100 Trying ←	Apply post test routine	IAM			

Table 6.1.1.1-1: Coding of calling party category

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

TP number	TP_101_024	Reference	7.2.3.1.2.5		
TSS reference	SIP-ISUP/Basic call/Sending	of_IAM/			
Selection criteria					
Test Purpose name	Coding of TMR				
Test Purpose		ter an INVITE request was rece eter in the IAM is set according			
	in table 6.1.1.1-2	oter in the way to out according	the mapping described		
ISUP Parameter values	IAM:				
	TMR				
SIP Parameter values	INVITE:				
	SDP				
	m line				
	a attributes				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	→	IAM		
	100 Trying	-			
	Apply post test routine				

Table 6.1.1.1-2: Coding of TMR

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

TP number	TP_101_025	Reference	7.2.3.1.2.5
TSS reference	SIP-ISUP/Basic call/Sending	_of_IAM/	
Selection criteria			
Test Purpose name	Coding of USI		
Test Purpose		ter an INVITE request was recoll IAM is set according the mapp	eived. The User service ing described in table 6.1.1.1-3
ISUP Parameter values	IAM: USI		
SIP Parameter values	INVITE: SDP m line a attributes		
Comments			
Message flows		MGCF → Apply post test routine	ISUP IAM

Table 6.1.1.1-3: Coding of USI

USI_VA		m= line		a= line	USI par	ameter
	<media></media>	<transport></transport>	<fmt-list></fmt-list>		Information	User Information
					Transport Capability	Layer 1 Protocol Indicator
VA 01	oudio	RTP/AVP	Dunamia DT	rtnman, dynamia DT:		iliuicatoi
VA_01	audio	RIP/AVP	Dynamic PT	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>	"Unrestricted digital	
					information" or	
					"Unrestricted	
					digital inf.	
					w/tones/ann"	
VA_02	image	Udptl	t38	Based on ITU-T T.38 [4]	"3,1 kHz audio"	
VA_03	image	tcptl	t38	Based on ITU-T T.38 [4]	"3,1 kHz audio"	

TP number	TP_101_026	Refer	ence	7.2.3.1.	2.5		
TSS reference	SIP-ISUP/Basic call/S	ending_of_IAM	1	•			
Selection criteria		<u> </u>					
Test Purpose name	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 is set according the mapping described in table 6.1.1.1-4					
ISUP Parameter values	IAM: HLC						
SIP Parameter values	INVITE: SDP m line a attributes						
Comments							
Message flows	Mg INVITE 100 Trying	→	MGCF	→ IAM	ISUP		

Table 6.1.1.1-4: Coding of HLC

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

TP number	TP_101_027	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/		
Selection criteria	PICS 7.2.1/5			
Test Purpose name	Mapping of PSTN XML HighLa	ayerCompatibility		
Test Purpose	HighLayerCompatibility elemen	TN XML attachment in an INVI nt, this information is mapped in Transport Parameter the High ghLayerCharacteristics elemer	nto a High Layer Compatibility Layer Characteristics value is	
ISUP Parameter values	ATP High Layer Compatibility High Layer Characteris	tics> HLC_value		
SIP Parameter values	INVITE: PSTN XML MIME body xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4	="utf-8"?>)<		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → 100 Trying ←	•	IAM	
	Apply post test routine			

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

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

TP number	TP_101_028	Reference	7.2.3.1.2.5		
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	·		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML LowLa	yerCompatibility			
Test Purpose	Ensure that on receipt of a PS LowLayerCompatibility elemen	it, this information is mapped i	nto a Low Layer Compatibility		
	IE present in an ISUP Access value is derived from the PSTN				
ISUP Parameter values	IAM:		,		
	ATP Low Layer Compatibility				
	InformationTransferCap	pability=ITC_VA			
SIP Parameter values	INVITE:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_VA<				
	LLOctet4>				
	TransferMode>00<				
	InformationTransfer	Rate>10000<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE ->	→	IAM		
	100 Trying ←	•			
		Apply post test routine			

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

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

TP number	TP 101 029	Reference	7.2.3.1.2.5		
TSS reference		SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 7.2.1/5	_ -			
Test Purpose name	Mapping of PSTN XML Bear	Mapping of PSTN XML BearerCapability into TMR and USI			
Test Purpose	Ensure that on receipt of a F BearerCapability element, the	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a BearerCapability element, this information is mapped into a User Service Information Parameter the Information Transfer Capability value is derived from the PSTN			
			rived from the PSTN		
ICUID Developed	XMLInformationTransferCap	ability element			
ISUP Parameter values	IAM: USI				
		Capability=ITC_value			
SIP Parameter values					
Sir Farailleter values	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	BearerCapability				
	BCoctet3				
	CodingStandard>	00<			
		erCapability>ITC_value<			
	BCoctet4				
	TransferMode>00	<			
	InformationTransferRate>10000<				
	BCoctet5				
	Layer1Identification				
	UserInfoLayer1Pr	otocol>00011<			
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying	←			
		Apply post test routine)		

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

ITC_value	XML InformationTransferCapability	USI Information transfer capability	
ITC_VA_1	'00000'	Speech	
ITC_VA_2	'10000'	3,1 kHz audio	
ITC_VA_3	'01000'	unrestricted digital information	

TP number	TP_101_030	Reference	7.2.3.1.2.5			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	PICS 7.2.1/5AND PICS 7.2.1/7	7				
Test Purpose name	Mapping of PSTN XML HighLa	ayerCompatibility into User Te	eleservice Information			
	parameter					
Test Purpose	Ensure that on receipt of a PS					
	HighLayerCompatibility element, this information is mapped into a User Teleservice					
	Information parameter the High		e is derived from the PSTN			
	XML HighLayerCharacteristics	element				
ISUP Parameter values	IAM:					
	UTI					
	High Layer Characteris	tics>HLC_value				
SIP Parameter values	INVITE:					
	PSTN XML MIME body					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00					
	Interpretation>100<					
	PresentationMethod	d>01<				
	HLOctet4					
	HighLayerCharacteristics> HLC_value <					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → IAM					
	100 Trying ←					
		Apply post test routine				

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

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

TP number	TP_101_031	Reference	7.2.3.1.2.5a		
TSS reference		SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Fall Back connection t	ype is sent			
Test Purpose	bodyThe first stated co BearerCapability	odec in the SDP m line is the 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 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				
ISUP Parameter values	the first PSTN XML InformationTransferCapability value IAM: TMR = second InformationTransferCapability TMR prime = first InformationTransferCapability USI = first BearerCapability USI prime = second BearerCapability				
SIP Parameter values	INVITE: PSTN XML M xml version="1.0" e PSTN BearerCapability BCoctet3 CodingStar Information or Information BearerCapability BCoctet3 CodingStar</th <th>MME body ncoding="utf-8"?> ndard>00< TransferCapability>00000< TransferCapability>10000<</th> <th></th>	MME body ncoding="utf-8"?> ndard>00< TransferCapability>00000< TransferCapability>10000<			
Comments	SDP: m line contains a codec	as the first codec CLEARMOI	DE and as the second codec a G.711		
Message flows	Mg INVITE 100 Trying	MGCF → ←	→ IAM		
	Apply post test routine				

TP number	TP_101_032				
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Fall Back connection type is sent				
Test Purpose	Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME				
-	body				
	The first stated codec in the SDP m line is the equivalent to the second				
	BearerCapability element, the BearerCapability element is mapped into the User				
	Service prime (USI prime) parameter in the sent IAM, the TMR is set according the				
	second PSTN XML InformationTransferCapability value				
	The second stated codec in the SDP m line is the equivalent to the first				
	BearerCapability element, the BearerCapability element is mapped into the User				
	Service Information (USI) parameter in the sent IAM, the TMR prime is set according				
	the first PSTN XML InformationTransferCapability value				
ISUP Parameter values	IAM:				
	TMR = second InformationTransferCapability				
	TMR prime = first InformationTransferCapability				
	USI = first BearerCapability				
	USI prime = second BearerCapability				
SIP Parameter values	INVITE: PSTN XML MIME body				
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>00000<				
	Or				
	InformationTransferCapability>10000<				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>10001<				
	SDP:				
	m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper>				
Comments	SDP: m line contains as the first codec CLEARMODE and as the second codec a G.711				
	codec				
	Configuration: the 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_033	Refer	ence	7.2.3.1	.2.9
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM	/	<u>.</u>	
Selection criteria	PICS 7.2.1/8				
Test Purpose name	Max-Forwards receive	ed, HOP is sent			
Test Purpose	Ensure that on receip counter. The value of a given factor				ped into the Hop ader value by applying
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg		MGCF		ISUP
	INVITE	→		→ IAM	
	100 Trying	←			
	Apply post test routine				

TP number	TP_101_034	Reference	7.2.3.1.2.10
TSS reference	SIP-ISUP/Basic call/Sending_c	f_IAM/	
Selection criteria	PICS 7.2.1/5		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator	
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a ProgressIndicator element, this information is mapped into a Progress Indicator IE present in an ISUP Access Transport Parameter the Progress description value is derived from the PSTN XML ProgressDescription element		
ISUP Parameter values	IAM:		
	ATP Progress Indicator		
	Progress Description=P	I_value	
SIP Parameter values	INVITE:		
	xml version="1.0" encoding="utf-8"?		
	PSTN ProgressIndicator		
	ProgressIndicator		
	ProgressOctet3		
	CodingStandard>00<		
	Location>0000<		
	ProgressOctet4		
	ProgressDescription	>PI_value<	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	→	IAM
	100 Trying ←		
		Apply post test routine	

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

Pl_value	XML ProgressIndicator ProgressDescription	ATP Progress Indicator value
PI_VA_1	'000001'	Call is not end-to-end ISDN; further call progress information may be available in-band
PI_VA_2	'000010'	Destination address is non-ISDN
PI_VA_3	'0000011'	Origination address is non-ISDN
PI_VA_4	'0000100'	Call has returned to the ISDN
PI_VA_5	'0000101'	Interworking has occurred and has resulted in a telecommunication service change
PI VA 6	'0001000'	In-band information or an appropriate pattern is now available

TP number	TP_101_035	Reference	7.2.3.1.2A.1.1
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria	PICS 7.2.2/1		
Test Purpose name	Number Portability Separate D	irectory Number Addressing N	Method is used. A Called
	Directory Number is present in		
Test Purpose	Ensure that on receipt of an ini		
	in the request line, an IAM is sent. The Called Party Number is set to:		
		tor: "Network routing number	
		al (significant) number" or "Ne	etwork routing number in
	network specific number for		
		r Indicator: routing to internal	
	· • • • • • • • • • • • • • • • • • • •	or: ISDN (Telephony) numberi	ng plan (<i>Recommendation</i>
	<i>E.164</i> [i.1])		
	_	from the user info of the reque	st URI the country code is
	removed.		
	The Called Directory Number is set to:		
	 Nature of address indicator "National (significant) number" Internal Network Number Indicator: routing to internal network number not allowed 		
		•	
	· • • • • • • • • • • • • • • • • • • •	r: ISDN (Telephony) numberi	ng pian (<i>Recommendation</i>
	E.164 [i.1])	from the re perometer if the Ni	umbar Dartability Dayting
	Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed also the address digits.		
	Number contains an E164 number the country code is removed else the address digits		
ISUP Parameter values	applied unchanged.		
130F Farameter values	Called party number, Called	d Directory Number	
SIP Parameter values	INVITE:	d Directory Number	
on randictor values	1	number>; rn= <number portabi<="" th=""><th>lity Routing Number>: nndi</th></number>	lity Routing Number>: nndi
Comments	The URI parameters can be re-	•	nty (Coding (Collision)), ripar
Message flows	Mg	MGCF	ISUP
	INVITE →		IAM
	100 Trying		
	, 3	Apply post test routine	

TP number	TP_101_036	Reference	7.2.3.1.2A.1.2	
TSS reference	SIP-ISUP/Basic call/	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 7.2.2/2			
Test Purpose name	Number Portability C present	Concatenated Addressing Meth	nod is used. The called party number is	
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 [i.1]) Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed else the address digits applied unchanged. The called party number derived from the user info is appended except the country code. 			
ISUP Parameter values	IAM: Called party num	ber		
SIP Parameter values	INVITE: Request URI: sip	o: <called number="">; rn=<numb< th=""><th>per Portability Routing Number>; npdi</th></numb<></called>	per Portability Routing Number>; npdi	
Comments	The URI parameters	can be received in arbitrary o	rder	
Message flows	Mg	MGCF	ISUP	
	INVITE	→	→ IAM	
	100 Trying	←		
		Apply post test	routine	

TP number	TP_101_037	Reference	7.2.3.1.2A.1.3
TSS reference	SIP-ISUP/Basic call/Sending_	of_IAM/	
Selection criteria	PICS 7.2.2/3		
Test Purpose name	Number Portability Separate N		essing Method is used. A
	Network Routing Number is pr		
Test Purpose	Ensure that on receipt of an in		
	in the request line, an IAM is s		
		ator: " National (significant) nu	
		er Indicator: routing to interna	
	 Numbering plan Indicate 	or: ISDN (Telephony) number	ing plan (<i>Recommendation</i>
	<i>E.164</i> [i.1])		
		from the user info of the reque	est URI the country code is
	removed.		
	The Network Routing Number		
	Nature of address indicator: "Network routing number in national (significant)		
	number format" or "Network routing number in network specific number format"		
	Numbering plan Indicator: ISDN (Telephony) numbering plan (<i>Recommendation</i> E.164 [i.1])		
	 Address Signal: derived 	from the rn parameter if the N	umber Portability Routing
	Number contains an E164 number the country code is removed else the address digits		
	applied unchanged.		
ISUP Parameter values	IAM:		
	Called party number, Netw	ork Routing Number	
SIP Parameter values	INVITE:		
		number>; rn= <number portab<="" th=""><th>ility Routing Number>; npdi</th></number>	ility Routing Number>; npdi
Comments	The URI parameters can be re		
Message flows	Mg	MGCF	ISUP
	INVITE -		IAM
	100 Trying €	-	
		Apply post test routine	

TP number	TP 101 038	Reference	7.2.3.1.2A.2
TSS reference	SIP-ISUP/Basic call/Se	ending_of_IAM/	
Selection criteria	PICS 7.2.2/1 OR PICS	7.2.2/2 OR PICS 7.2.2/3 AI	ND PICS 7.2.2/4
Test Purpose name	Sending of Number Po	rtability Forward Information	1
Test Purpose	Ensure that on receipt of an initial INVITE request containing the npdi parameters in the request line, an IAM is sent. The IAM contains the Number Portability Forward Information parameter set according the following roles • If the Number Portability Database Dip Indicator is present, and there is no Number Portability Routing Number, set to "number portability query done for called number, non-ported called subscriber".		
ISUP Parameter values	IAM: Number Portability	Forward Information	
SIP Parameter values	INVITE:	called number>; npdi	
Comments		· •	
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test	ISUP → IAM routine

TP number	TP_101_039	Reference	7.2.3.1.2A.2	
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 7.2.2/1 OR PICS 7.2.2/	2 OR PICS 7.2.2/3 AND PICS 7	.2.2/4	
Test Purpose name	Sending of Number Portabilit	y Forward Information		
Test Purpose	in the request line, an IAM is Information parameter set ac • If the Number Portability	Database Dip Indicator is present, set to "number portability que	nber Portability Forward nt, and a Number Portability	
ISUP Parameter values	IAM:	rd Information		
SIP Parameter values	Number Portability Forwa INVITE: Request URI: sip: <called< th=""><th>number>; rn=<number portabil<="" th=""><th>ity Routing Number>; npdi</th></number></th></called<>	number>; rn= <number portabil<="" th=""><th>ity Routing Number>; npdi</th></number>	ity Routing Number>; npdi	
Comments				
Message flows		MGCF → Apply post test routine	ISUP IAM	

TP number	TP_101_040	Reference	7.2.3.1.2A.2
TSS reference	SIP-ISUP/Basic call/Sending_o	of_IAM/	
Selection criteria	PICS 7.2.2/1 OR PICS 7.2.2/2	OR PICS 7.2.2/3 AND PICS 7	.2.2/4
Test Purpose name	Sending of Number Portability	Forward Information	
Test Purpose	Ensure that on receipt of an initial INVITE request containing the rn 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	I Information	
SIP Parameter values	INVITE:	number>; rn= <number portabil<="" th=""><th>ity Routing Number></th></number>	ity Routing Number>
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	→	IAM
	100 Trying ←		
		Apply post test routine	

TP number	TP 101 041	Reference	7.2.3.1.2B.1
TSS reference	SIP-ISUP/Basic call/S		1120112511
Selection criteria	PICS 7.2.2/5 AND PI	CS 7.2.2/6	
Test Purpose name	Request URI cic para	meter is mapped into IAM TI	NS parameter
Test Purpose	 request line, an IAM is Type of network identification. Network identification 	s sent. The Transit network so identification: CCITT-stance cation plan: according value	containing the cic parameter in the selection parameter is set to: dardized identification or national network e of Type of network identification ne carrier identification code value of the
ISUP Parameter values	IAM:		
	Transit network se	election	
SIP Parameter values	INVITE: Request URI: sip:	<called number="">; cic=< Car</called>	rier identification code >
Comments			
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM
		Apply post test	routine

TP number	TP_101_042	Reference	7.2.3.1.2B.2
TSS reference	SIP-ISUP/Basic call/Sending_c	f_IAM/	
Selection criteria	PICS 7.2.2/5 AND PICS 7.2.2/7	7 AND PICS 7.1.1/2	
Test Purpose name	Carrier Selection Information pa	arameter is sent	
Test Purpose	Ensure that on receipt of an init	tial INVITE request containing	the cic and dai parameter in
	the request line, an IAM is sent	. The Carrier Selection Informa	ation parameter is set to the
	values indicated in table 6.1.1.	1-10	
ISUP Parameter values	IAM:		
	Carrier Selection Information	n	
SIP Parameter values	INVITE:		
	Request URI: sip: <called n<="" th=""><th>umber>; cic=< Carrier identific</th><th>ation code >; dai= SIP_dai</th></called>	umber>; cic=< Carrier identific	ation code >; dai= SIP_dai
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	→	IAM
	100 Trying ←		
		Apply post test routine	

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

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

6.1.1.2 Sending of COT

TP number	TP_102_001		
TSS reference	SIP-ISUP/Basic call/Sending_of_COT/		
Selection criteria	PICS 7.1.1/1 AND PICS 7.2.1/1 AND PICS 7.2.1/4		
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 none remote sendrecv		
	400. Deguine 400rd		
	183: Require: 100rel SDP a=curr:gos local none		
	SDP a=curr:qos local none a=curr:qos remote none		
	a=curi.qos remote none a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	a=conf:qos remote sendrecv		
	u-som que fomete somareov		
	UPDATE:		
	SDP a=curr:gos local sendrecv		
	a=curr:gos remote none		
	a=des:qos mandatory local sendrecv		
	a=des:qos mandatory remote sendrecv		
	200 OK UPDATE		
	SDP a=curr:qos local sendrecv		
	a=curr:qos remote sendrecv		
	a=des:qos mandatory local sendrecv		
_	a=des:qos mandatory remote sendrecv		
Comments	1010		
Message flows	Mg MGCF ISUP		
	INVITE → IAM		
	100 Trying ←		
	183 Session Progress		
	PRACK →		
	200 OK (PRACK)		
	UPDATE → COT		
	200 OK (UPDATE) ←		
	Apply post test routine		

TSS reference SIP-ISUP/Basic call/Sending_of_COT/ Selection criteria PICS 7.1.1/2 AND PICS 7.2.1/1 AND PICS 7.2.1/4 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:						
Test Purpose name Sending of BICC COT						
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	PICS 7.1.1/2 AND PICS 7.2.1/1 AND PICS 7.2.1/4					
"continuity check successful", when all of the following conditions have been met: the requested preconditions (if any) in the IMS network have been met a possible outstanding continuity check procedure is successfully performed on the outgoing circuit ISUP Parameter values IAM: Nature of connection indicator = "COT to be expected" COT continuity indicator: Continuity check successful; SIP Parameter values INVITE: Require: precondition SDP a=curr:qos local none	Sending of BICC COT					
- 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 IAM: Nature of connection indicator = "COT to be expected" COT continuity indicator: Continuity check successful; SIP Parameter values INVITE: Require: precondition SDP a=curr:qos local none a=curr:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=curr:qos remote sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv	If the IAM has already been sent, the Continuity message shall be sent indicating					
- a possible outstanding continuity check procedure is successfully performed on the outgoing circuit ISUP Parameter values IAM: Nature of connection indicator = "COT to be expected" COT continuity indicator: Continuity check successful; INVITE: Require: precondition SDP						
outgoing circuit ISUP Parameter values IAM: Nature of connection indicator = "COT to be expected" COT continuity indicator: Continuity check successful; SIP Parameter values INVITE: Require: precondition SDP						
IAM: Nature of connection indicator = "COT to be expected"	:					
COT continuity indicator: Continuity check successful; INVITE: Require: precondition SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv UPDATE: SDP a=curr:qos local 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 mandatory local sendrecv a=des:qos mandatory remote sendrecv						
INVITE: Require: precondition SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv						
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=curr:qos remote none a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv						
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv						
a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP						
a=des:qos none remote sendrecv 183: Require: 100rel SDP						
183: Require: 100rel SDP						
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv						
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv						
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv						
a=des:qos mandatory remote sendrecv						
200 OK LIPDATE						
SDP a=curr:qos local sendrecv						
a=curr:qos remote sendrecv						
a=des:qos mandatory local sendrecv						
	a=des:qos mandatory remote sendrecv					
Comments						
Message flows Mg MGCF ISUP						
INVITE → IAM						
100 Trying ←						
183 Session Progress ←						
PRACK →						
200 OK (PRACK) ←						
UPDATE → COT						
200 OK (UPDATE) ←						
Apply post test routine						

6.1.1.3 Sending of SAM

TP number	TP_103_001	Reference	7.2.3.1.3A.2			
TSS reference	SIP-ISUP/Basic call/Sendir	g of SAM/				
Selection criteria	PICS 7.2.3/1					
Test Purpose name	Receipt of INFO request, so	ending 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-dialog SIP INFO requests.					
ISUP Parameter values	3					
SIP Parameter values	INVITE: Supported: 100rel 183 Session Progress: Sup INFO: Content-Type: application SubsequentDigit: <addi< th=""><th></th><th>00rel</th></addi<>		00rel			
Comments		<u> </u>				
Message flows	Mg INVITE 100 Trying 183 Session Progress	MGCF → ←	SUP → IAM			
	INFO 200 OK (INFO)	→	→ SAM			
	INFO 200 OK (INFO)	→ ←	→ SAM			
		Apply post test routin	ie			

TP number	TP_103_002	Reference	7.2.3	.1.3A.3			
TSS reference	SIP-ISUP/Basic call/Sending_o	of_SAM/	•				
Selection criteria	PICS 7.2.3/2						
Test Purpose name	Receipt of multiple INVITE req	uest, sending of SAM					
Test Purpose	After the ISUP IAM message h	has been sent the I-MGCF rece	eives a	dditional 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)	→	→	IAM			
	CASE A						
	INVITE(2)	→	→	SAM			
	484 Address Incomplete(1)	←					
	ACK	→					
	INVITE(3)	→	→	SAM			
	484 Address Incomplete(2)	←					
	ACK	→					
	180 Ringing(3)	←	←	ACM			
	CASE B	_					
	484 Address Incomplete(1)	←					
	ACK	→					
		_	_				
	INVITE(2)	→	→	SAM			
	484 Address Incomplete(2)	←					
	ACK	→					
	IN IV (ITE (O)	•		0444			
	INVITE(3)	→	→	SAM			
	100 Diaging (2)	←	←	A C N 4			
	180 Ringing(3)	-	~	ACM			
	1	Apply post test routine					

TP number	TP_103_003	Reference	7.2.3.1.3A.3
TSS reference	SIP-ISUP/Basic call/Sending_c	of_SAM/	
Selection criteria	PICS 7.2.3/2		
Test Purpose name	Receipt of multiple INVITE requ	uest, unsuccessful	
Test Purpose	After the ISUP IAM message h	as been sent the I-MGCF rece	ives additional digits. The
	additional digits are received in		
	contained in the Request line is		
	the communication, then the S		
	response for this INVITE. In thi	s case, no SAM shall be sent t	o BICC/ISUP procedures
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE(1)	→	→ IAM
	CASE A		
	INVITE(2)	→	
	484 Address Incomplete(1)	←	
	ACK	→	
	CASE B		
	484 Address Incomplete(1)	←	
	ACK	→	
	INVITE(2)	→	
	484 Address Incomplete(2)	←	
	ACK	→	
		Apply post test routine	
	ļ.	Apply post tost routine	

6.1.1.4 Sending of 18x provisional responses

TP number	TP_104_001	Refere	nce	7.2.3.1.4
TSS reference	SIP-ISUP/Basic call/S	ending_of_18x/		
Selection criteria				
Test Purpose name	Sending of 180 Ringin	ig after ACM was	received	
Test Purpose	The SUT shall send the ACM with Called p		ng when receiving the cator set to subscribe	
ISUP Parameter values	ACM: BCI Called part	y status indicator	= subscriber free	
SIP Parameter values				
Comments				
Message flows	Mg		MGCF	ISUP
	INVITE	→	→	IAM
	100 Trying	←		
	180 Ringing	←	←	ACM
		Apply	y post test routine	

TP number	TP_104_002	Reference	7.2.3.1.4
TSS reference	SIP-ISUP/Basic call/Sending_	of_18x/	
Selection criteria			
Test Purpose name	Sending of 180 Ringing after 0	CPG was received	
Test Purpose	The SUT shall send the SIP 18 - CPG with Event indicator s	BO Ringing when receiving the feet to ALERTING.	following messages:
ISUP Parameter values	ACM: BCI Called party status CPG: Event indicator = ALER		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE + 100 Trying +	-	IAM
		←	ACM(no indication)
	180 Ringing ←	← Apply post test routine	CPG(ALERTING)

TP number	TP_104_004	Refe	rence		7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Se	ending_of_18x	/		•		
Selection criteria	PICS 7.2.1/9						
Test Purpose name	ACM received, P-Earl-I	Media header	present in 180				
Test Purpose		Ensure that on receipt of an ACM free a 180 Ringing is sent. In the 180 Ringing a P-Early-Media header is present indicating authorization of early media.					
ISUP Parameter values	IAM: 3,1 kHz audio						
	ACM: BCI Called party	status indicat	or = free				
SIP Parameter values	INVITE:	INVITE:					
	Supported: 100rel	Supported: 100rel					
	P-Early-Media: < au	P-Early-Media: < authorization of early media>					
	180 ringing						
	P-Early-Media: < authorization of early media>						
Comments							
Message flows	Mg		MGCF		ISUP		
	INVITE	→		→	IAM		
	180 Ringing	←		←	ACM(free)		
	PRACK	→					
	200 OK (PRACK)	←					
	,	Ap	ply post test rou	utine			

TP number	TP_104_005	Reference	7.2.3.1.4
TSS reference	SIP-ISUP/Basic call/S	Sending_of_18x/	·
Selection criteria	PICS 7.2.1/10		
Test Purpose name	Provide media in a Ca	all-Info header field, or an Ale	ert-Info header field in a 180
Test Purpose			ead of the in-band media received from fo header field present in a 180 Ringing.
ISUP Parameter values	ACM: BCI Called par	ty status indicator = subscrib	er 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	MGCF ← Apply post test	ISUP → IAM ← ACM routine

TP number	TP_104_006	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/Send	ling_of_18x/				
Selection criteria	PICS 7.2.1/10					
Test Purpose name	Provide media in a Call-In	fo header field, or an Ale	ert-Info header field in a 183			
Test Purpose		Ensure that the SUT is able to provide media instead of the in-band media received from the PSTN in a Call-Info header field, or an Alert-Info header field present in a 183 Session Progress.				
ISUP Parameter values	ACM: BCI Called party st	atus indicator = no indica	ation			
SIP Parameter values	183: Call-Info: <media reso<br="">Alert-Info: <media reso<="" th=""><th>,</th><th></th></media></media>	,				
Comments						
Message flows	Mg INVITE 100 Trying 183 Session Progress	MGCF → ← Apply post test	ISUP → IAM ← ACM(no indication) routine			

TP number	TP_104_007	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending	of_18x/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of Progress Indicato	r received in a ACM/CPG				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or CPG event indicator ALERTING, a 180 Ringing is sent. The Progress Indicator IE contained in the ACM ATP parameter is mapped into the PSTN XML element in the 180 as indicated in table 6.1.1.4-2. Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value Pl_value Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value Pl_value					
ISUP Parameter values	CASE B BCi Call	ed party status = subscriber ed party status = no indication ntains a Progress Indicator IE less Indicator IE	on			
SIP Parameter values	180: 0 Location ProgressOctet4 ProgressDescription	0<				
Comments						
Message flows	Mg INVITE -	MGCF →	ISUP → IAM			
		'	← ACM			
	183 Session Progress	Apply post test routine	← ACM ← CPG			

TP number	TP_104_008	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of High layer cor					
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3. • High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value • High layer compatibility received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value					
ISUP Parameter values		Called party status = sub				
		Called party status = no				
		contains a High layer co	mpatibility IE			
SIP Parameter values	CPG: ATP contains a High	gh layer compatibility IE				
	<pre><?xml version="1.0" enco PSTN HighLayerCompatibilit HLOctet3 CodingStandar Interpretation> PresentationMethod</pre>	d>0rd>00100				
Comments						
Message flows	Mg INVITE	MGCF →	ISUP → IAM			
	CASE A 180 Ringing	←	← ACM			
	CASE B 183 Session Progress 180 Ringing	← ← Apply post test	← ACM ← CPG routine			

TP number	TP_104_009	Reference		7.2.3.1.4			
TSS reference		SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5					
Test Purpose name	Mapping of Low layer co						
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or CPG event indicator ALERTING, a 180 Ringing is sent. The Low layer compatibility IE contained in the ACM 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 an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the LowLayerCompatibility value ITC_value						
ISUP Parameter values	ACM: CASE A BC	i Called party status :	subscriber fre				
		i Called party status :					
		P contains a Low layer		IE			
SIP Parameter values	CPG: ATP contains a Low layer compatibility IE						
	180: xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000<						
Comments							
Message flows	Mg INVITE	MG¢ →	> →	ISUP IAM			
	CASE A 180 Ringing	←	←	ACM			
	CASE C 183 Session Progress 180 Ringing	← ← Apply post	← ← test routine	ACM CPG			

TP number	TP_104_010	Reference	7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Bearer Capability received in a ACM/CPG				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or CPG event indicator ALERTING, a 180 Ringing is sent. The Bearer Capability IE contained in the ACM ATP parameter is mapped into the BearerCapability PSTN XML element in the 180 as indicated in table 6.1.1.4-5. Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value Bearer Capability received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value				
ISUP Parameter values	CASE B B	Ci Called party status = Ci Called party status = TP contains a Bearer Capability IF	= no indication		
SIP Parameter values	CPG: ATP contains a Bearer Capability IE 180: xml version="1.0" encoding="utf-8"? PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5> Layer1Identification>01< UserInfoLayer1Protocol>00011<				
Comments					
Message flows	Mg INVITE CASE A 180 Ringing CASE C 183 Session Progress 180 Ringing	MGC → ← ← ←	→ IAM ← ACM ← ACM ← CPG		
		Apply post	test routine		

TP number	TP 104 011	Reference	7.2.3.1.4			
TSS reference		SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5	· _ · · ·				
Test Purpose name	Mapping of Backward call indicin 180.	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 1 sent in 180.				
Test Purpose	Ensure that on receipt of an ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")					
ISUP Parameter values	ACM: BCI ISDN User Part indi	cator = ISDN User Part not us	ed 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 ← 180 Ringing ←	-	ISUP IAM ACM			

TP number	TP_104_012	Re	eference		7.2.3.1.4	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5				
Test Purpose name	Mapping of Badin 180.	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 2 sent in 180.				
Test Purpose	Ensure that on receipt of an ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)					
ISUP Parameter values		ACM: 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	Mg INVITE 100 Trying 180 Ringing	→ ←	MGCF	→	ISUP IAM ACM	
			Apply post test ro	utine		

	_	Reference	7.2.3.1.4			
11.55 reference ISIP-13		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
	<u>U</u>	SIP-ISUP/Basic call/Sending_of_18x/				
	7.2.1/5					
	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 7 sent in 180.					
Test Purpose Ensur	re that on receipt of an AC	M and the Backward call indic	ator ISDN User Part indicator			
is set	to ISDN User Part used a	III the way and ISDN access in	dicator = 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 i	ndicator = ISDN User Part use	ed all the way			
		icator = Terminating access IS	=			
SIP Parameter values 180 F	180 Ringing					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
' '	. 109.000.11.01.01.					
	ProgressOctet4					
	ProgressDescription	>0000111 >				
Comments	1 Togressbescription	>0000111<				
	Ma	MCCE	ISUP			
Message flows	9					
	INVITE → IAM					
	Trying					
180 F	180 Ringing ← ← ACM					
	Apply post test routine					

TP number	TP_104_014	Reference	7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of optional Backward value 8 sent in 180.	call indicator into PSTN XML F	ProgressIndicator element		
Test Purpose	Ensure that on receipt of an ACM and the optional Backward call indicator In-band information indicator in-band information or an appropriate pattern is now available, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 8				
ISUP Parameter values	ACM: oBCI In-band information indicator in-band information or an appropriate pattern is now available				
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000<				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM 100 Trying ←				
	180 Ringing ← ← ACM				
	3 3	Apply post test routine	-		

TP number	TP_104_015 Reference 7.2.3.1.4				
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	The SUT performs Fall back				
	Ensure that on receipt of an INVITE request and the subsequent ISUP/BICC network is not able to perform Fall back, Fall back is performed in the SUT: The TMR in the sent IAM is set to 'speech' or '3,1 kHz audio' USI is copied from the first BearerCapability element received in the PSTN XML. Upon an ACM is received a 180 Ringing is sent				
ISUP Parameter values					
SIP Parameter values	INVITE: PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>00000< or InformationTransferCapability>10000< BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>10001< 180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101< BearerCapability BCoctet3 CodingStandard>00<				
	InformationTransferCapability>00000< or InformationTransferCapability>10000<				
Comments	Fallback is performed in the SUT				
	Mg MGCF ISUP INVITE → IAM 100 Trying ←				
	180 Ringing ← ← ACM				
	Apply post test routine				

TP number	TP_104_016	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Receipt of TMU speech, no BC	present in ATP				
Test Purpose	Ensure that on receipt of a Tra	Ensure that on receipt of a Transmission medium used parameter set to speech in the				
	ACM, a 180 Ringing is sent and	d a PSTN XML BearerCapabili	ty element is present the			
	InformationTransferCapability i	s set to Speech				
ISUP Parameter values	ACM: Transmission medium us	sed = speech				
SIP Parameter values	180 Ringing	·	·			
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>00000<					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	→	IAM			
	100 Trying ←					
	180 Ringing ←	←	ACM			
		Apply post test routine				

TP number	TP_104_017	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5				
Test Purpose name	Receipt of TMU 3,1 kHz audio,	no BC present in ATP				
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio in					
	the ACM, a 180 Ringing is sen		ability element is present the			
	InformationTransferCapability i	s set to 3,1 kHz audio				
ISUP Parameter values	ACM: Transmission medium u	sed = 3,1 kHz audio				
SIP Parameter values	180 Ringing					
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>10000<					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	→	IAM			
	100 Trying ←					
	180 Ringing ←	←	ACM			
		Apply post test routine				

TP number	TP_104_018	Reference	7.2.3.1.4.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5			
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapab	oility sent in 180		
Test Purpose	Ensure that on receipt of a Train				
	Capability IE in the ACM, a 180				
	is present the InformationTrans		d in table 6.1.1.4-1		
ISUP Parameter values	ACM: Transmission medium us	sed, ATP Bearer Capability IE			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	Mg	MGCF	ISUP		
_	INVITE → IAM				
	100 Trying ←				
	180 Ringing ←	←	ACM		
		Apply post test routine			

TP number	TP_104_019	Reference	7.2.3.1.4.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Receipt of TMU, BC present in ATP PSTN XML BearerCapability sent in 183				
Test Purpose	Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer Capability IE in the ACM, a 183 Session Progress is sent and a PSTN XML				
	BearerCapability element is pre				
	table 6.1.1.4-1				
ISUP Parameter values	ACM: Transmission medium u				
	BCi Called party status :	= no indication			
SIP Parameter values	183 Session Progress				
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	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_020	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/S	Sending_of_18x/				
Selection criteria	NOT PICS 7.2.1/5 A	ND NOT PICS 7.2.1/9				
Test Purpose name	ACM no indication re	ceived, no SIP response is s	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	IAM: 3,1 kHz audio ACM: BCI Called par	IAM: 3,1 kHz audio ACM: BCI Called party status indicator = no indication				
SIP Parameter values						
Comments						
Message flows	Mg INVITE	MGCF →	ISUP → IAM			
	← ACM(no indication) Apply post test routine					

TP number	TP_104_021	Reference		7.2.3.1.4A		
TSS reference	SIP-ISUP/Basic call/Send	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/9					
Test Purpose name	ACM received, P-Earl-Me	dia header present in 183	3			
Test Purpose	Ensure that on receipt of	an early ACM 183 Sessio	n Progress	s is sent. In the 183 session		
	Progress a P-Early-Media	header is present indica	ting author	rization of early media		
ISUP Parameter values	IAM: 3,1 kHz audio	·		-		
	ACM: BCI Called party st	atus indicator = no indica	tion			
SIP Parameter values	INVITE:	INVITE:				
	Supported: 100rel					
	P-Early-Media: < auth	orization of early media>				
	183 Session Progress					
	P-Early-Media: < auth	P-Early-Media: < authorization of early media>				
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	→	→	IAM		
	183 Session Progress	(←	ACM(no indication)		
	PRACK	→				
	200 OK (PRACK)	←				
		Apply post test	routine			

TP number	TP 104 022	Reference	7.2.3.1.4A		
			table 7.2.3.1.4A.1		
TSS reference	SIP-ISUP/Basic call/Sending	of_18x/	,		
Selection criteria	PICS 7.2.1/9				
Test Purpose name	CPG received, P-Earl-Media	header present in 183			
Test Purpose	Ensure that on receipt of CF	G containing an optional backy	vard call indicator set to In-band		
		n is now available a 183 Sessic			
	session Progress a P-Early-	Media header is present indicat	ting authorization of early media		
ISUP Parameter values	IAM: 3,1 kHz audio				
	CPG: oBCi In-band info or a	n appropriate pattern is now	available		
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: < authori	zation of early media>			
	183 Session Progress				
	P-Early-Media: < authorization of early media>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	→	IAM		
	183 Session Progress ← CPG				
	PRACK	→			
	200 OK (PRACK)	←			
	,	Apply post test routine			

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 7.2.1/5			
Test Purpose name	Mapping of optional Backward value 8 sent in a 183	call indicator into PSTN XML	ProgressIndicator element	
Test Purpose	Ensure that on receipt of an ACM and the optional Backward call indicator In-band information indicator in-band information or an appropriate pattern is now available, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 8			
ISUP Parameter values		dicator = Terminating access Istion indicator in-band informati		
SIP Parameter values	183 Session Progress xml version="1.0" encoding: PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
Comments	-			
Message flows	Mg INVITE → 183 Session Progress ←		ISUP IAM ACM	

TP number	TP 104 024	Reference	7.2.3.1.4A		
			table 7.2.3.1.4A.1		
TSS reference	SIP-ISUP/Basic call/Sending_c	f_18x/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Backward call indic in a 183	ator into PSTN XML Progressi	ndicator element value 1 sent		
Test Purpose	Ensure that on receipt of an ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")				
ISUP Parameter values	ACM: BCI ISDN User Part ind		ed all the way		
SIP Parameter values	BCi Called party status 183 Session Progress	Huicator = no maication			
on Farameter values	xml version="1.0" encoding="utf-8"? PSTN				
	ProgressIndicator				
	ProgressOctet4 ProgressDescription>0000001<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	IAM		
	183 Session Progress ←	←	ACM		
		Apply post test routine			

TP number	TP_104_025	Reference	7.2.3.1.4A		
			table 7.2.3.1.4A.1		
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Backward call indic	ator into PSTN XML Progress	Indicator element value 2 sent		
	in a 183				
Test Purpose	Ensure that on receipt of an AC				
	is set to ISDN User Part used a				
	non-ISDN, a 183 Session Prog				
	present the value is set to No 2				
ISUP Parameter values	ACM: BCI ISDN User Part indicator = ISDN User Part used all the way				
		tor = Terminating access non-	ISDN		
		indicator = no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4	0000040			
	ProgressDescription	>0000010<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	IAM		
	100 Trying ←				
	183 Session Progress ←	-	ACM		
		Apply post test routine			

TP number	TP_104_026	Reference	7.2.3.1.4A			
TT Hamber	11 _104_020	Reference	table 7.2.3.1.4A.1			
TSS reference	CID ICI ID/Dasia call/Canding	of 10v/	table 7.2.3.1.4A.1			
	SIP-ISUP/Basic call/Sending_	UI_ I 0X/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of Backward call indi in a 183	cator into PSTN XML Progress	sIndicator element value 7 sent			
Test Purpose			cator ISDN User Part indicator ndicator = Terminating access			
	ISDN, a 183 Session Progress		ssIndicator element is present			
	the value is set to No 7					
ISUP Parameter values		dicator = ISDN User Part used				
		ator = Terminating access ISD	N			
	BCi Called party status	indicator = no indication				
SIP Parameter values	183 Session Progress					
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator	ProgressIndicator				
	ProgressOctet4					
	ProgressDescriptio	n> 0000111 <				
Comments						
Message flows	Mg MGCF ISUP					
_	INVITE	→	IAM			
	100 Trying	=				
	183 Session Progress		ACM			
		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/Sending_c	of_18x/		
Selection criteria	PICS 7.2.1/5			
Test Purpose name	Mapping of optional Backward value 8 sent in a 183	call indicator into PSTN XML I	ProgressIndicator element	
Test Purpose	Ensure that on receipt of a CPG 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	CPG: Event indicator = Progre oBCI In-band informat is now available	ess tion indicator in-band information	on or an appropriate pattern	
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescriptior</th <th></th> <th></th>			
Comments				
Message flows	Mg INVITE → 183 Session Progress ←	←	ISUP IAM ACM CPG	

TP number	TP_104_028	Reference	7.2.3.1.4A		
			table 7.2.3.1.4A.2		
TSS reference	SIP-ISUP/Basic call/Sendir	ng_of_18x/	·		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Backward call i in a 183	ndicator into PSTN XML	ProgressIndicator element value 1 sent		
Test Purpose	is set to ISDN User Part no XML ProgressIndicator ele	Ensure that on receipt of a CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")			
ISUP Parameter values	CPG: Event indicator = Pr	CPG: Event indicator = Progress BCI ISDN User Part indicator = ISDN User Part not used all the way			
SIP Parameter values	183 Session Progress xml version="1.0" encod PSTN ProgressIndicator ProgressOctet4 ProgressDescrip</th <th></th> <th></th>				
Comments					
Message flows	Mg INVITE 183 Session Progress	MGCF → Apply post test r	ISUP → IAM ← ACM ← CPG routine		

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_c	of_18x/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Backward call indic	ator into PSTN XML Progress	Indicator element value 2 sent		
Test Purpose	Ensure that on receipt of an CF				
	is set to ISDN User Part used a				
	non-ISDN, a 183 Session Prog				
ISUP Parameter values	present the value is set to No 2 CPG: Event indicator = Progre	,	(אוספ		
130F Farailleter values	1	icator = ISDN User Part used a	all the way		
		tor = Terminating access non-			
SIP Parameter values	183 Session Progress				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	<u></u>				
	ProgressOctet4	. 0000010 -			
Comments	ProgressDescription	>0000010<			
	B4	МООГ	IOLID		
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	IAM		
		-	ACM		
	183 Session Progress ←	-	CPG		
		Apply post test routine			

TP number	TP_104_030	Reference	7.2.3.1.4A	
			table 7.2.3.1.4A.2	
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/		
Selection criteria	PICS 7.2.1/5			
Test Purpose name	Mapping of Backward call indicin a 183	ator into PSTN XML Progress	Indicator element value 7 sent	
Test Purpose	Ensure that on receipt of an CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7			
ISUP Parameter values	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="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<			
Comments				
Message flows	Mg INVITE → 183 Session Progress ←	`	ISUP IAM 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_c	of_18x/	•		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of optional Backward value 8 sent in a 183	call indicator into PSTN XML	ProgressIndicator element		
Test Purpose	Ensure that on receipt of a CPG 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	CPG: Event indicator = Progre oBCI In-band informat is now available	ess ion indicator in-band informati	on or an appropriate pattern		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescriptior</th <th></th> <th></th>				
Comments					
Message flows	Mg INVITE → 183 Session Progress ←	←	ISUP IAM ACM CPG		

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_o	of_18x/	•		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Backward call indicin a 183	cator into PSTN XML Progress	Indicator element value 1 sent		
Test Purpose	Ensure that on receipt of a CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")				
ISUP Parameter values	CPG: Event indicator = in-bar		e pattern is now available		
SIP Parameter values	183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<				
Comments					
Message flows	Mg INVITE → 183 Session Progress ←	+	ISUP IAM ACM CPG		

TP number	TP_104_033	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 7.2.1/5		
Test Purpose name	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 2 sent in a 183		
Test Purpose	Ensure that on receipt of an CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)		
ISUP Parameter values	CPG: Event indicator = in-band information or an appropriate pattern is now available BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access non-ISDN		
SIP Parameter values	183 Session Progress xml version="1.0" encoding: PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg INVITE → 183 Session Progress ←	←	ISUP IAM ACM CPG

TP number	TP_104_034	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 7.2.1/5		
Test Purpose name	Mapping of Backward call indicin a 183	ator into PSTN XML Progress	Indicator element value 7 sent
Test Purpose	Ensure that on receipt of an CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7		
ISUP Parameter values	CPG: Event indicator = in-band information or an appropriate pattern is now available BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access ISDN		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg INVITE → 183 Session Progress ←	`	ISUP IAM ACM CPG

TP number	TP_104_035	Reference	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_o	of_18x/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Progress Indicator	received in a ACM/CPG			
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or				
	CPG event indicator ALERTIN				
	contained in the ACM ATP par		ΓN XML element in the 183		
	Session Progress as indicated				
		ed in an ACM called party statu			
		TN XML element contains the	ProgressIndicator value		
	PI_value		. ====::		
		ed in an CPG Event indicator A			
		TN XML element contains the	Progressindicator value		
ISUP Parameter values	PI_value ACM: CASE A BCi Calle	d party status aubaaribar fra			
150P Parameter values		ed party status = subscriber freed ed party status = no indication	5		
		ains a Progress Indicator IE			
	CPG: ATP contains a Progres				
SIP Parameter values	183 Session Progress:	or maleator in			
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00)<			
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescription	n>PI_value<			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE ->	→	IAM		
	0.405.4				
	CASE A	_			
	183 Session Progress ←	←	ACM		
	CASE B	•	4.014		
	400 Oi D	—	ACM		
	183 Session Progress ←		CPG		
		Apply post test routine			

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

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'000001'
PI_VA_2	Destination address is non-ISDN	'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_036	Reference	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of High layer compatibility received in a ACM/CPG				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or CPG event indicator ALERTING, a 183 Session Progress is sent. The High layer compatibility IE contained in the ACM ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 183 Session Progress as indicated in table 6.1.1.4-3. • High layer compatibility received in an ACM called party status subscriber free 183 Session Progress is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value • High layer compatibility received in an CPG Event indicator ALERTING 183 Session				
	HLC_value	THE AME CICITION CONTAINS IN	e HighLayerCompatibility value		
ISUP Parameter values	ACM: CASE A BCi Calle CASE B BCi Calle	ed party status = subscriber fi ed party status = no indicatior tains a High layer compatibility over compatibility IF	n		
SIP Parameter values	183 Session Progress:	yer companionity in			
	<pre><?xml version="1.0" encoding PSTN HighLayerCompatibility HLOctet3 CodingStandard>0 Interpretation>100< PresentationMethod HLOctet4</pre>	O<			
Comments					
Message flows	Mg INVITE -	·			
	183 Session Progress € CASE B	- -	ACM ACM		
	183 Session Progress	- Apply post test routine	CPG		

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

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

TP number	TP_104_037	Reference	7.2.3.1.4			
			table 7a.0f			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of Low layer compatit	oility received in a ACM/CPG				
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or					
	CPG event indicator ALERTIN	G, a 183 Session Progress is s	sent. The Low layer			
	compatibility IE contained in th	e ACM ATP parameter is map	ped into the			
	LowLayerCompatibility PSTN XML element in the 183 Session Progress as indicated in					
	table 6.1.1.4-4.	table 6.1.1.4-4.				
		ceived in an ACM called party s				
		n the PSTN XML element cont	ains the			
	LowLayerCompatibility va					
		ceived in an CPG Event indicat				
		TN XML element contains the	LowLayerCompatibility value			
	ITC_value					
ISUP Parameter values		ed party status = subscriber free	Э			
		ed party status = no indication	_			
	ATP contains a Low layer compatibility IE					
SIP Parameter values	CPG: ATP contains a Low lay	er compatibility iE				
SIP Parameter values	183 Session Progress:					
	xml version="1.0" encoding="utf-8"? PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
	LLOctet4>					
	TransferMode>00<					
	InformationTransfer	Rate>10000<				
Comments	B4	MOCE	ISUP			
Message flows	Mg	MGCF				
	INVITE → IAM					
	CASE A					
		_	ACM			
	183 Session Progress ← ← ACM					
	CASE B					
	0.102.5	←	ACM			
	183 Session Progress					
	Apply post test routine					
L	Apply post test routine					

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

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

TP number	TP_104_038	Reference	7.2.3.1.4			
			table 7a.0f			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of Bearer Capability received in a ACM/CPG					
Test Purpose	Ensure that on receipt of an ACM called party status subscriber free or no indication or CPG event indicator ALERTING, a 183 Session Progress is sent. The Bearer Capability IE contained in the ACM ATP parameter is mapped into the BearerCapability PSTN XML element in the 183 Session Progress as indicated in table 6.1.1.4-5. • Bearer Capability received in an ACM called party status subscriber free 183 Session Progress is sent in the PSTN XML element contains the BearerCapability value ITC_value					
	 Bearer Capability received Progress is sent in the PS ITC_value 	I in an CPG Event indicator AL TN XML element contains the	ERTING 183 Session BearerCapability value			
ISUP Parameter values		d party status = subscriber free	9			
		d party status = no indication				
		ains a Bearer Capability IE				
	CPG: ATP contains a Bearer	Capability IE				
SIP Parameter values	183 Session Progress: xml version="1.0" encoding="utf-8"? PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
	BCoctet4	· ·				
	TransferMode>00<					
	InformationTransfer	Rate>10000<				
	BCoctet5>					
	Layer1Identification:					
Commonto	UserInfoLayer1Prote	000>0011<				
Comments	NA.	MCCE	ICUD			
Message flows	Mg INVITE →	MGCF	ISUP			
	INVITE →	7	IAM			
	CASE A					
	183 Session Progress	←	ACM			
	103 Session Flogress	•	ACIVI			
	CASE B					
	ONOL D	4	ACM			
	183 Session Progress					
	Apply post test routine					
		Apply post test routille				

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'

TP number	TP_104_039	Reference	7.2.3.1.4B
TSS reference	SIP-ISUP/Basic call/Sending_c	of_18x/	·
Selection criteria			
Test Purpose name	ACM containing CDIV informat	ion, a 181 is sent	
Test Purpose	Ensure that on receipt of an ACM containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted', a 181 Call Is Being Forwarded is sent.		
ISUP Parameter values	ACM: BCi Called party status Redirection number Call diversion informatic Generic notification = 'C	on	
SIP Parameter values	181 Call Is Being Forwarded		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→	→ IAM
	100 Trying	←	
	181 Call Is Being Forwarded	←	← ACM
		Apply post test routine	

TP number	TP_104_040	Reference	7.	2.3.1.4B
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 7.2.1/9			
Test Purpose name	ACM containing CDIV information and oBCi inband inf available, a 181 is sent a P-Early-Media present			
Test Purpose	Ensure that on receipt of a ACM containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to In-band info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media			
ISUP Parameter values	ACM: BCi Called party status = no indication Redirection number Call diversion information Generic notification = 'Call is diverted'			
SIP Parameter values	181 Call Is Being Forwarded P-Early-Media: <indicat< th=""><th>ing authorization of e</th><th>arly media></th><th></th></indicat<>	ing authorization of e	arly media>	
Comments				
Message flows	Mg	MGCI	F	ISUP
	INVITE	→	→	IAM
	100 Trying	←		
	181 Call Is Being Forwarded	←	←	ACM
	Apply post test routine			

TP number	TP 104 041	Reference	7.	.2.3.1.4B		
TSS reference	SIP-ISUP/Basic call/Sending_	of_18x/	<u> </u>			
Selection criteria						
Test Purpose name	CPG containing CDIV informa	tion, a 181 is sent				
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', a 181 Call is Being Forwarded is sent				
ISUP Parameter values	CPG: Event Indicator set to Progress Redirection number Call diversion information Generic notification = 'Call is diverted'					
SIP Parameter values	181 Call Is Being Forwarded					
Comments						
Message flows	Mg	MGCF		I	ISUP	
	INVITE	→	→	IAM		
	180/183	←	←	ACM		
	181 Call Is Being Forwarded ← CPG					
	Apply post test routine					

TP number	TP_104_042	Reference	7.2.3.1.4B		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 7.2.1/9				
Test Purpose name	ACM containing CDIV information and oBCi inband inf available, a 181 is sent a P-Early-Media present				
Test Purpose	Ensure that on receipt of a CPG Event Indicator set to Progress containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to In-band info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media				
ISUP Parameter values	CPG: Event Indicator set to P	rogress			
	Redirection number				
	Call diversion information				
	Generic notification = 'Call is diverted'				
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: < authorization of early media>				
	181 Call Is Being Forwarded				
	P-Early-Media: <indicat< th=""><th>ing authorization of early medi</th><th>ia></th></indicat<>	ing authorization of early medi	ia>		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	→	→ IAM		
	180/183	←	← ACM		
	181 Call Is Being Forwarded	←	← CPG		
		Apply post test routine			

6.1.1.5 Sending of the 200 OK (INVITE)

TP number	TP_105_001	Reference	7.2.3.1.5	
TSS reference	SIP-ISUP/Basic call/Send	ing_of_200_OK/		
Selection criteria				
Test Purpose name	An ANM is received a 200	OK is sent		
Test Purpose	Ensure that on receipt of a	an ANM the SUT sends a 200 Ol	K INVITE	
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	→	→ IAM	
	100 Trying	←		
	180 Ringing	←	E ACM	
	200 OK (INVITE)	←	E ANM	
	ACK	→		
	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	D_OK/			
Selection criteria						
Test Purpose name	A CON is received a 20	00 OK is sent				
Test Purpose	Ensure that on receipt	of a CON the	SUT sends a 200	OK IN	IVITE	
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	→		→	IAM	
	100 Trying	←				
	200 OK (INVITE)	←		←	CON	
	ACK `	→				
		Apply post test routine				

TP number	TP_105_003	Reference	7.2.3.1.5			
			table 7.2.3.1.5.1			
TSS reference	SIP-ISUP/Basic call/Sending_	of_200_OK/				
Selection criteria	PICS 7.2.1/5					
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		Progress Indicator IE value PI_	_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" encoding:</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00)<				
	Location <yyyy></yyyy>					
	ProgressOctet4					
_	ProgressDescription>PI_value<					
Comments						
Message 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				

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

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'000001'
PI_VA_2	Destination address is non-ISDN	'000010'
PI_VA_3	Origination address is non-ISDN	'000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a 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/S	ending_of_200_OK/				
Selection criteria	PICS 7.2.1/5					
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		ntains a High layer compati	bility IE value HLC_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" e</th <th>ncoding="utf-8"?></th> <th></th>	ncoding="utf-8"?>				
	PSTN					
	HighLayerCompati	ibility				
	HLOctet3					
		CodingStandard>00<				
		Interpretation>100<				
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacteristics> HLC_value <					
Comments			10115			
Message 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 tes	t routine			

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

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

TP number	TP_105_005	Reference		7.2.3.1.5		
				table 7.2.3.1.5.1		
TSS reference	SIP-ISUP/Basic call/Se	nding_of_200_OK/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Low layer compatibility received in ANM/CON is mapped into PSTN XML					
	LowLayerCompatibility					
Test Purpose				ng 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					
ISUP Parameter values		tains a Low layer compatibi	ity IE valu	e ITC_value		
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" en</th <th>coding="utf-8"?></th> <th></th> <th></th>	coding="utf-8"?>				
	PSTN					
	LowLayerCompatib	ility>				
	LLOctet3>					
		CodingStandard>00<				
	InformationTransferCapability>ITC_value<					
	LLOctet4> TransferMode>00<					
Comments	Information i	ransferRate>10000<				
Comments	B4	MOOF		ICUID		
Message flows	Mg	MGCF		ISUP		
	INVITE	→	→	IAM		
	CASE A	_	_			
	180 Ringing	←	←	ACM		
	200 OK (INVITE)	←	←	ANM		
	ACK →					
	CASE B	CASE B				
	200 OK (INVITE)	←	+	CON		
	ACK	→	•	0014		
	AON	Apply post test	routine			
		7.pp.y post toot				

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

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

TP number	TP_105_006	Reference	7.2.3.1.5			
			table 7.2.3.1.5.1			
TSS reference	SIP-ISUP/Basic call/Sending	g_of_200_OK/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Bearer Capability received in	Bearer Capability received in ANM/CON is mapped into PSTN XML BearerCapability				
Test Purpose		Ensure that on receipt of an ANM/CON and an ATP containing a Bearer Capability IE set				
		to value ITC_value, a 200 OK INVITE is sent. the PSTN XML BearerCapability value is set				
	as indicated in table 6.1.1.5-					
ISUP Parameter values	ANM/CON: ATP contains	a Bearer Capability IE value IT	C_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" encodir</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>					
		ferCapability> ITC_value <				
		BCoctet4				
		TransferMode>00<				
	InformationTransferRate>10000<					
	BCoctet5>					
	Layer1Identificati					
0	UserInfoLayer1P	rotocoi>0011<				
Comments	NA ::	MOOF	ICUD			
Message 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				

Table 6.1.1.5-4: 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'

TP number	TP_105_007	Reference	e	7.2.3.1.5			
				table 7.2.3	3.1.5.2		
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria	PICS 7.2.1/5						
Test Purpose name	Backward call indicato						
Test Purpose	Ensure that on receipt of a ANM/CON and the backward call indicator is set to ISDN User						
	Part not used all the way, a 200 OK INVITE is sent and the PSTN XML ProgressIndicate						
	value is set to 1 (Call is	value is set to 1 (Call is not end-to-end ISDN: further progress information may be available					
	in-band)						
ISUP Parameter values	ANM/CON: BCi ISD	N User Part indica	tor = ISDN User Pa	rt not used a	all the way		
SIP Parameter values	200 OK INVITE						
	xml version="1.0" er</th <th>ncoding="utf-8"?></th> <th></th> <th></th> <th></th>	ncoding="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDe	scription>0000001	<				
Comments							
Message flows	Mg		MGCF		ISUP		
	INVITE	→	→	IAM			
	CASE A						
	180 Ringing	←	←	ACM			
	100 Kinging	•	`	ACIVI			
	200 OK (INVITE)	←	←	ANM			
	ACK `	→					
	CASE B						
	200 OK (INVITE)	←	←	CON			
	ACK ` ´	→					
	Apply post test routine						

TP number	TP_105_008	Reference	7.2.3.1.5					
			table 7.2.3.1.5.2					
TSS reference		SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria	PICS 7.2.1/5							
Test Purpose name	Backward call indicator mapped into PSTN XML ProgressIndicator value 2							
Test Purpose	Ensure that on receipt of a ANM/CON and the backward call indicator is set to ISDN User							
		Part used all the way and Terminating access non-ISDN, a 200 OK INVITE is sent and						
		ator value is set to 2 (Destination						
ISUP Parameter values		Part indicator = ISDN User Par						
		dicator = Terminating access no	on-ISDN					
SIP Parameter values	200 OK INVITE	" " " 0" 0						
	<pre><?xml version="1.0" encoding</pre></pre>	="utt-8""?>						
	PSTN							
	ProgressIndicator							
	ProgressOctet4							
	ProgressDescription	n>000010/						
Comments	1 regresszesenpas	112000010						
Message flows	Mg	MGCF	ISUP					
	INVITE		IAM					
		_						
	CASE A							
	180 Ringing	-	ACM					
	100 199							
	200 OK (INVITE)	- +	ANM					
	ACK →							
	CASE B							
	200 OK (INVITE) ◀	-	CON					
	ACK '	•						
	Apply post test routine							
1	ı	,,,,						

TP number	TP_105_009	Refe	rence		7.2.3.1.5	5	
		11010			table 7.2		
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria	PICS 7.2.1/5						
Test Purpose name	Backward call indicator mapped into PSTN XML ProgressIndicator value 7						
Test Purpose	Ensure that on receipt of a ANM/CON and the backward call indicator is set to ISDN User						
-	Part used all the way and Terminating access ISDN, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 7						
ISUP Parameter values	ANM/CON: BCi ISDI	N User Part in	dicator = ISDN Us	er Par	t used all	the way	
	ISDN ac	cess indicator	= Terminating acc	cess IS	SDN	·	
SIP Parameter values	200 OK INVITE						
	xml version="1.0" er</th <th>ncoding="utf-8</th> <th>"?></th> <th></th> <th></th> <th></th>	ncoding="utf-8	"?>				
	PSTN						
	ProgressIndicator						
	<u></u>						
	ProgressOctet4		0444				
0	ProgressDe	scription>000	U111<				
Comments	NA		МООБ			IOUD	
Message flows	Mg		MGCF		1004	ISUP	
	INVITE	→		→	IAM		
	CASE A						
	CASE A	←		←	A C.N.4		
	180 Ringing	~		~	ACM		
	200 OK (INIVITE)	_		←	A N I N A		
	200 OK (INVITE) ← ← ANM ACK →						
	ACK	7					
	CASE B						
	200 OK (INVITE)	←		←	CON		
	ACK	→		•	CON		
	Apply post test routine						
	Appriy post test routine						

TP_number TP_105_010 Reference TP_105_010 Reference T.2.3.1.5 table 7.2.3.1.5 table 7.2.3.1.5 table 7.2.3.1.5 table 7.2.3.1.5.2 TSS reference SIP-ISUP/Basic call/Sending_of_200_OK/ PICS 7.2.1/5 Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Ensure that on receipt of a ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE -?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000< Comments Mg MGCF ISUP INVITE	TP number	TD 405 040		Reference		70045	-	
SIP-ISUP/Basic call/Sending_of_200_OK/ Selection criteria	i P number	TP_105_010		Reference				
Selection criteria Test Purpose name Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Ensure that on receipt of a ANM/CON and the optional backward call indicator is to inband information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available SIP Parameter values SIP Parameter values Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE <pre> </pre> <pre></pre>	T00	OLD TOLID (D	. "'(0 ":	(000 01//		table 7.2	2.3.1.5.2	
Test Purpose name Test Purpose Defional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Ensure that on receipt of a ANM/CON and the optional backward call indicator is to inband information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) SUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available SIP Parameter values 200 OK INVITE								
Ensure that on receipt of a ANM/CON and the optional backward call indicator is to inband information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE <pre> </pre> <pre> <a hr<="" th=""><th></th><th colspan="7"></th></pre>								
band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN ProgressOctet4 ProgressOescription>0001000< Comments Message flows Mg MGCF ISUP INVITE								
and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) SUP Parameter values	Test Purpose							
pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE								
ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available SIP Parameter values 200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000< Comments Message flows Mg MGCF ISUP INVITE INVITE ACASE A 180 Ringing CASE A 180 Ringing CASE B 200 OK (INVITE) ACK CASE B 200 OK (INVITE) ACK CASE B 200 OK (INVITE) CASE B				dicator value is set	to 8 (In-ba	nd informa	ation or appropriate	
in-band information or an appropriate pattern is now available 200 OK INVITE <pre> <pre> <pre></pre></pre></pre>								
200 OK INVITE	ISUP Parameter values	ANM/CON:						
xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000 Comments Mg MGCF ISUP INVITE → IAM CASE A 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → CASE B CON 200 OK (INVITE) ← CON				on or an appropria	te pattern is	s now ava	ilable	
PSTN	SIP Parameter values		_					
ProgressIndicator ProgressOctet4 ProgressDescription>0001000< Comments Message flows Mg MGCF ISUP INVITE → IAM CASE A 180 Ringing ← ← ACM 200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← ← CON			="1.0" encoding=	:"utf-8"?>				
ProgressOctet4 ProgressDescription>0001000< Comments Mg		-						
ProgressDescription>0001000 Comments Mg MGCF ISUP INVITE → → IAM CASE A 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← CON		Progressli	ndicator					
ProgressDescription>0001000 Comments Mg MGCF ISUP INVITE → → IAM CASE A 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← CON		<u></u>						
Comments Mg MGCF ISUP INVITE → → IAM CASE A 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← CON				0004000				
Message flows Mg MGCF ISUP INVITE → → IAM CASE A + ← ACM 200 OK (INVITE) ← ANM ACK → CASE B CON 200 OK (INVITE) ← CON		Pro	gressDescription	>0001000<				
INVITE → → IAM CASE A 180 Ringing ← ← ACM 200 OK (INVITE) ← ← ANM ACK → CASE B 200 OK (INVITE) ← ← CON							10115	
CASE A 180 Ringing ← ← ACM 200 OK (INVITE) ← ANM ACK → CASE B 200 OK (INVITE) ← CON	Message flows		_		_		ISUP	
180 Ringing ← ← ACM 200 OK (INVITE) ← ← ANM ACK → CASE B 200 OK (INVITE) ← ← CON		INVITE	→		→	IAM		
180 Ringing ← ← ACM 200 OK (INVITE) ← ← ANM ACK → CASE B 200 OK (INVITE) ← ← CON								
200 OK (INVITE) ANM ACK CASE B 200 OK (INVITE) CON								
ACK → CASE B 200 OK (INVITE) ← CON		180 Ringing	+		←	ACM		
ACK → CASE B 200 OK (INVITE) ← CON								
CASE B 200 OK (INVITE) ← CON		200 OK (INVITE) ← ANM						
200 OK (INVITE) ← CON	ACK →							
200 OK (INVITE) ← CON								
· · ·		CASE B						
ACK →		200 OK (INVI	TE)		←	CON		
		ACK	→					
Apply post test routine		Apply post test routine						

TP number	TP_105_011	Refe	erence		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 7.2.1/5							
Test Purpose name	Receipt of TMU speech in ANM/CON, no BC present in ATP							
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to speech in the							
	ANM/CON, a 200 OK I	NVITE is sen	t and a PSTN XN	/IL Beare	erCapability element is present			
	the InformationTransfe	the InformationTransferCapability is set to Speech						
ISUP Parameter values	IAM:							
	TMR = second Informa							
	TMR prime = first Infor		erCapability					
		JSI = first BearerCapability						
	USI prime = second Be							
	ANM/CON: Transmis		used = speech					
SIP Parameter values	INVITE: PSTN XML M		NII O					
	xml version="1.0" er</th <th>ncoaing="utt-8</th> <th>3"'?></th> <th></th> <th></th>	ncoaing="utt-8	3"'?>					
	PSTN Bassas Canability							
	BearerCapability BCoctet3							
	CodingStan	dard>00>						
	Information	uaiu>00< FransferCanal	bility> 00000 <					
	momaton	папостоара	Sinty > 00000					
	BearerCapability							
	BCoctet3							
	CodingStan	dard>00<						
			bility>10001<					
		·	•					
	180 Ringing	180 Ringing						
		xml version="1.0" encoding="utf-8"?						
	PSTN							
	BearerCapability							
	BCoctet3							
	CodingStan		-::: 00000					
	information	ransierCapa	bility>00000<					
Comments	***							
Message flows	Mg		MGCF		ISUP			
Wessage nows	INVITE	→	MOOI	→	IAM			
	IIIVII E			•	IAIVI			
	CASE A							
	180 Ringing	←		←	ACM			
	Too Kinging	•		•	AOW			
	200 OK (INVITE)	←		←	ANM			
	ACK ANIV							
	7.01	•						
	CASE B							
200 OK (INVITE) ← ← CON								
ACK → Apply post test routine								
	Apply post test routine							

TP number	TP_105_012	Refe	rence		7.2.3.1.5	5		
					table 7.2	2.3.1.5.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/							
Selection criteria	PICS 7.2.1/5							
Test Purpose name	Receipt of TMU 3,1 kHz audio in ANM/CON, no BC present in ATP							
Test Purpose		Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio in						
	the ANM/CON, a 200					ability element is		
	present the InformationTransferCapability is set to 3,1 kHz audio							
ISUP Parameter values		IAM:						
	TMR = second Inform							
		MR prime = first InformationTransferCapability						
		JSI = first BearerCapability JSI prime = second BearerCapability						
				oudio				
SIP Parameter values	ANM/CON: Transm INVITE: PSTN XML M		i useu = 3, i kmz	audio				
SIP Parameter values	<pre><?xml version="1.0" e</pre></pre>		אייט					
	PSTN	ricounig= uti-c) : /					
	BearerCapability							
	BCoctet3							
	CodingStar	ndard>00<						
		TransferCapal	bility> 10000 <					
	BearerCapability							
	BCoctet3							
	CodingStar		-116 - 40004					
	Information	TransferCapal	0111ty>10001<					
	180 Ringing							
		ncodina="utf-8	N"?>					
	PSTN	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>						
	BearerCapability							
	BCoctet3							
	CodingStar	ndard>00<						
	Information	TransferCapal	bility>10000<					
Comments								
Message flows	Mg	_	MGCF	_		ISUP		
	INVITE	→		→	IAM			
	0405.4							
	CASE A	-		,	A 0 N A			
	180 Ringing	←		~	ACM			
	200 OK (INVITE)	←		←	ANM			
	ACK	→		•	AINIVI			
	ACK	7						
	CASE B							
	200 OK (INVITE)	(←	CON			
	ACK	÷		•	3011			
	Apply post test routine							
	Apply post test routine							

TP number	TP_105_013	Refe	rence	7	.2.3.1.5	
TSS reference	SIP-ISUP/Basic call/S	ending_of_200)_OK/			
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Receipt of TMU, BC present in ATP PSTN XML BearerCapability 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 Informa TMR prime = first Info USI = first BearerCapa USI prime = second B ANM/CON: Transm	rmationTransfo ability earerCapabilit	erCapability y	rer Capabili	ity 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	→	MGCF	→ 1/	ISUP AM	
	180 Ringing	←		← A	CM	
	200 OK (INVITE) ACK	← →		← A	NM	
	CASE B 200 OK (INVITE) ACK	← →	nly post tost =-		CON	
	Apply post test routine					

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

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

6.1.1.6 Sending of the Release message (REL)

TP number	TP_106_001	Refe	rence		7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Ser	nding_of_REI	_/		•		
Selection criteria							
Test Purpose name	BYE received in confirm	ed dialogue i	no Reason header	inclu	ded, a REL is sent		
Test Purpose	present, a REL message	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	→		→	IAM		
	100 Trying	←					
	180 Ringing	←		←	ACM		
	200 OK (INVITE)	←		←	ANM		
	ACK →						
	BYE	→		→	REL		
	200 OK (BYE)	+		+	RLC		

TP number	TP_106_002	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sending_	of_REL/	·				
Selection criteria							
Test Purpose name	BYE received in confirmed dia	llogue Reason header include	d, a REL is sent				
Test Purpose	Ensure that on receipt of a BY						
	present, a REL message is se value, the location is set to 'ne						
ISUP Parameter values	REL: Cause indicator Cause						
	Location	n = network beyond interworki	ng point				
SIP Parameter values	BYE: Reason: Q.850 [5]; caus	e= Cause_value					
Comments	The Cause_value is a PIXIT p	parameter					
Message flows	Mg	MGCF	ISUP				
	INVITE -	→	IAM				
	100 Trying	-					
	180 Ringing	180 Ringing ← ← ACM					
	200 OK (INVITE)	·	ANM				
	ACK →						
	BYE -	→	REL				
	200 OK (BYE)	- +	RLC				

TP number	TP_106_003	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	ue no Reason header included,	a REL is sent		
Test Purpose	Ensure that on receipt of a BYE request in early dialogue and no Reason header is present, a REL message is sent. The cause indicator is set to No. 16 (normal clearing), the location is set to 'network beyond interworking point'.				
ISUP Parameter values	REL: Cause indicator Cause Value = 16 (normal clearing) Location = network beyond interworking point				
SIP Parameter values		-			
Comments					
Message flows	18x BYE 200 OK (BYE) 487 Request Terminated	MGCF → ← → ← ← → ← ←	ISUP IAM ACM REL RLC		

TP number	TP 106 004	Reference	7.2.3.1.7				
TSS reference	SIP-ISUP/Basic call/Sendin	g of REL/	•				
Selection criteria		5					
Test Purpose name	BYE received in early dialog	gue Reason header included,	a REL is sent				
Test Purpose	Ensure that on receipt of a	BYE request in early dialogue	and a Reason h	eader is present,			
	a REL message is sent. The	e cause indicator is set to the	Reason header	cause value, the			
	location is set to 'network be	eyond interworking point'					
ISUP Parameter values	REL: Cause indicator Cau	se Value = Cause_value					
	Locat	ion = network beyond interwo	rking point				
SIP Parameter values	BYE: Reason: Q.850 [5]; ca	use= Cause_value					
Comments	The Cause_value is a PIXI	T parameter					
Message flows	Mg	MGCF		ISUP			
	INVITE	→	→ IAM				
	18x	←	← ACM				
	BYE → REL						
	200 OK (BYE)	200 OK (BYE) ← ← RLC					
	487 Request Terminated	←					
	ACK	→					

TP number	TP_106_005	Reference		7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sendir	ng_of_REL/				
Selection criteria						
Test Purpose name	CANCEL received in early	dialogue no Reason h	eader inclu	ded, a REL	is sent	
Test Purpose	Ensure that on receipt of a	CANCEL request in e	arly dialogu	e and no Re	eason header is	
-	present, a REL message is					
	location is set to 'network b	eyond interworking po	int'	•	0 ,	
ISUP Parameter values	REL: Cause indicator Cau	use Value = 31 (norma	I unspecifie	ed)		
	Loca	tion = network beyond	interworkir	ng point		
SIP Parameter values						
Comments						
Message flows	Mg	MGCF			ISUP	
	INVITE	→	→	IAM		
	18x	(←	ACM		
	CANCEL → REL					
	200 OK (CANCEL)					
	487 Request Terminated	←		•		
	ACK	→				

TP number	TP_106_006	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending_o	of_REL/				
Selection criteria						
Test Purpose name	CANCEL received in early dial	ogue Reason header included	, a REL is sent			
Test Purpose	Ensure that on receipt of a CA					
	present, a REL message is se					
	value, the location is set to 'ne		nt'			
ISUP Parameter values	REL: Cause indicator Cause					
	Location	= network beyond interworking	g point			
SIP Parameter values	CANCEL: Reason: Q.850 [5];	cause= Cause_value				
Comments	The Cause_value is a PIXIT p	arameter				
Message flows	Mg	MGCF	ISUP			
	INVITE -	· -	IAM			
	18x ←	· ←	ACM			
	CANCEL → REL					
	200 OK (CANCEL) ← RLC					
	487 Request Terminated ←	•				
	ACK -	•				

TP number	TP 106 007	Reference	7.2.3.	1 7				
TSS reference			1.2.3.	1.1				
	SIP-ISUP/Basic call/Se	nding_oi_REL/						
Selection criteria		PICS 7.2.1/5						
Test Purpose name		ned dialogue PSTN XML H	ighLayerCompatib	ility present, a REL is				
	sent containing a High							
Test Purpose		of a BYE request in confirm						
		is present, a REL is sent a						
		he value is mapped as ind						
ISUP Parameter values	REL: ATP High layer	compatibility High Layer Ch	aracteristic = HLC	_value				
SIP Parameter values	BYE:							
	xml version="1.0" en</th <th>coding="utf-8"?></th> <th></th> <th></th>	coding="utf-8"?>						
	PSTN							
	HighLayerCompatib	oility						
	HLOctet3	Ž						
	CodingStand	CodingStandard>00<						
	Interpretation>100<							
	PresentationMethod>01<							
	HLOctet4	HLOctet4						
	HighLayerCl	HighLayerCharacteristics> HLC_value <						
Comments								
Message flows	Mg	MGCF		ISUP				
	INVITE	→	→ IAM					
	100 Trying	←						
	180 Ringing ← ← ACM							
	Too ranging 7.000							
	200 OK (INVITE) ← ← ANM							
	ACK							
	ACK	7						
	BYE	_	→ REL					
)						
	200 OK (BYE)	+	← RLC					

TP number	TP_106_008	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	BYE received in early dialog	gue PSTN XML HighLayerCom	patibility present, a REL is sent			
	containing a High layer com					
Test Purpose		BYE request in early dialogue a				
			TP is present containing a High			
		alue is mapped as indicated in				
ISUP Parameter values	REL : ATP High layer com	patibility High Layer Characteris	stic = HLC_value			
SIP Parameter values	BYE:					
	xml version="1.0" encodi</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacteristics> HLC_value <					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	▶ IAM			
	BYE	→	▶ REL			
	200 OK (BYE)	← ←	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 7.2.1/5						
Test Purpose name	CANCEL received in early dia	logue PSTN XML HighLayerC	Compatibility present, a REL is				
	sent containing a High layer co	ompatibility IE					
Test Purpose	Ensure that on receipt of a CA						
			P is present containing a High				
	layer compatibility IE. The value						
ISUP Parameter values	REL: ATP High layer compar	ibility High Layer Characterist	ic = HLC_value				
SIP Parameter values	CANCEL						
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>					
	PSTN						
	HighLayerCompatibility						
	HLOctet3						
	CodingStandard>00<						
	Interpretation>100<						
	PresentationMethod>01<						
	HLOctet4						
	HighLayerCharacteristics> HLC_value <						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE -	→	IAM				
	CANCEL	→	REL				
	200 OK (CANCEL)	• •	RLC				
	487 Request Terminated	-					
	ACK -	>					

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

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

TP number	TP_106_010	Reference	7	2.3.1.7				
TSS reference		SIP-ISUP/Basic call/Sending_of_REL/						
Selection criteria	PICS 7.2.1/5	Chang_oi_INEL/						
Test Purpose name		BYE received in confirmed dialogue PSTN XML LowLayerCompatibility present, a REL is						
rest Furpose name			wLayerComp	alibility present, a REL is				
Took Durmage	sent containing a Low		ad dialagua a	nd a DCTN VMI				
Test Purpose		of a BYE request in confirm						
		y is present, a REL is sent a						
ICUD Devementes values		The value is mapped as indi						
ISUP Parameter values		compatibility Information Tra	ansier Capabi	iity = II C_value				
SIP Parameter values	CANCEL							
	xml version="1.0" e</th <th>ncoding="utf-8"?></th> <th></th> <th></th>	ncoding="utf-8"?>						
	PSTN							
	LowLayerCompati	bility>						
	LLOctet3>							
	CodingStar	CodingStandard>00<						
	Information	InformationTransferCapability>ITC_value<						
Comments								
Message flows	Mg	MGCF		ISUP				
_	INVITE	→	→ 1/4	AM				
	100 Trying	←						
	180 Ringing ← ← ACM							
	100 ranging							
	200 OK (INVITE) ← ← ANM							
	ACK	ACK →						
	BYE	→	_ D	EL				
		7						
	200 OK (BYE)	~	▼ K	LC				

TP number	TP_106_011	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending	_of_REL/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	BYE received in early dialogon containing a Low layer comp		npatibility present, a REL is sent			
Test Purpose	Ensure that on receipt of a BYE request in early dialogue and a PSTN XML LowLayerCompatibility is present, a REL is sent and an ATP is present containing a Low layer compatibility IE. The value is mapped as indicated in table 6.1.1.6-2					
ISUP Parameter values	REL: ATP Low layer compa	tibility Information Transfer (Capability = ITC_value			
SIP Parameter values	CANCEL xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value<					
Comments						
Message flows	Mg INVITE	MGCF →	ISUP → IAM			
	200 OK (BYE) 487 Request Terminated	-	→ REL ← RLC			

TP number	TP_106_012	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sending_	_of_REL/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	CANCEL received in early dia	alogue PSTN XML LowLayerCo	ompatibility present, a REL is		
	sent containing a Low layer co	ompatibility IE			
Test Purpose	Ensure that on receipt of a C/	ANCEL request in early dialogu	ue and a PSTN XML		
-	LowLayerCompatibility is pres	sent, a REL is sent and an ATF	is present containing a Low		
		ue is mapped as indicated in ta			
ISUP Parameter values	REL: ATP Low layer compa	tibility Information Transfer Cap	pability = ITC_value		
SIP Parameter values	CANCEL				
	xml version="1.0" encoding</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>			
	PSTN				
	LowLayerCompatibility>	LowLayerCompatibility>			
	LLOctet3>				
	CodingStandard>00<				
		InformationTransferCapability>ITC_value<			
		, –			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	→	IAM		
	CANCEL -	→	REL		
	200 OK (CANCEL)	←	RLC		
	` ,	-	-		
	•	•			
1	P 1 = 1 1				

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

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

6.1.1.7 Receipt of the Release Message

TP number	TP_107_001	Reference	7.2.3.1.8
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_REL/	•
Selection criteria			
Test Purpose name	A REL is received, a BYE requ	est is sent	
Test Purpose	Ensure that on receipt of a RE	L message in the confirmed d	ialogue, a BYE is sent. The
	Reason header is present and	the cause value is set to the	received cause value in the
	REL Cause indicator		
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value	
SIP Parameter values	BYE: Reason: Q.850 [5]; cau	se = Cause_value	
Comments	Cause_value is a PIXIT param	eter	
Message flows	Mg	MGCF	ISUP
	INVITE -	→	IAM
	100 Trying ←	•	
	180 Ringing ←	· ←	ACM
	200 OK (INVITE) ←	· +	ANM
	ACK		
	BYE ←	·	REL
	200 OK (BYE) →	→	RLC

TP number	TP_107_002	Reference	7.2.3.1.8	
TSS reference	SIP-ISUP/Basic call/Receipt_of	E_REL/		
Selection criteria				
Test Purpose name	A REL is received before an ea	rly dialogue is established,	a final response is sent	
Test Purpose	Ensure that on receipt of a REL message before an early dialogue is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response			
ISUP Parameter values	REL: Cause indicator Cause	/alue = Cause_value		
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850 [5]	; cause = Cause_value		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	-	• IAM	
	100 Trying ←			
	SIP_final_Response	€	• REL	
	ACK →	7	RLC	

TP number	TP_107_003	Reference	7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/Rec	eipt_of_REL/				
Selection criteria						
Test Purpose name	A REL is received after a	n early dialogue is establis	shed (180), a final response is sent			
Test Purpose	Ringing is established a Cause value received in	Ensure that on receipt of a REL message after an early dialogue due to sending a 180 Ringing is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response				
ISUP Parameter values		ACM: BCi Called party status = subscriber free REL: Cause indicator Cause Value = Cause value				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.8	850 [5]; cause = Cause_v	alue			
Comments						
Message flows	Mg INVITE 180 Ringing SIP_final_Response ACK	MGCF → ← ←	ISUP → IAM ← ACM ← REL → RLC			

TP number	TP_107_004	Reference	7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/Receipt_o	SIP-ISUP/Basic call/Receipt of REL/				
Selection criteria						
Test Purpose name	A REL is received after an earl	y dialogue is established (181)	, a final response is sent			
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to sending a 181 Call Is Being Forwarded is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response					
ISUP Parameter values	ACM: BCi Called party status = no indication Redirection number Call diversion information Generic notification = 'Call is diverted' REL: Cause indicator Cause Value = Cause value					
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850 [5	4xx/5xx/6xx: Reason: Q.850 [5]; cause = Cause_value				
Comments						
Message flows	Mg INVITE 181 Call Is Being Forwarded SIP_final_Response ACK	•	ISUP → IAM ← ACM ← REL → RLC			

TP number	TP 107 005	Reference	7	2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receip			2.0.1.0		
Selection criteria						
Test Purpose name	A REL is received after an	early dialogue is establish	hed (181), a	final resp	onse is sent	
Test Purpose	Ensure that on receipt of a Is Being Forwarded is esta derived from the Cause val	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				
ISUP Parameter values	ACM: BCi Called party sta oBCi in-band info av REL: Cause indicator Cau	/ailable use Value = Cause_valu e				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.85	0 [5];	lue			
Comments						
Message flows	Mg	MGCF	=		ISUP	
	INVITE	→	→	IAM		
	183 Session Progress	←	←	ACM		
	SIP_final_Response	←	←	REL		
	ACK	→	→	RLC		

TP number	TP_107_006	Reference		7.2.3.1.8	
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	An ATP Progress indicator II		ped in	to the PSTN XML	
	ProgressIndicator in the sen				
Test Purpose				ator IE is present in an ATP, a	
				STN XML ProgressIndicator is	
	contained and the Progress		m the re	eceived REL Progress	
	indicator as indicated in table				
ISUP Parameter values	REL: ATP Progress Indicat	or = PI_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding</th <th>ıg="utf-8"?></th> <th></th> <th></th>	ıg="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescript	ion> PI_value <			
Comments					
Message flows	Mg	MGCF		ISUP	
	INVITE	→	→	IAM	
	180 Ringing	←	←	ACM	
	SIP_final_Response	←	←	REL	
	ACK)	÷	RLC	

TP number	TP_107_007	Refere	nce	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 7.2.1/5	•				
Test Purpose name	An ATP Progress indicate	or IE present i	n a REL is mapped	into the PSTI	N XML	
	ProgressIndicator in the s	sent final resp	onse			
Test Purpose	Ensure that on receipt of					
	ATP, a SIP final response					
	HighLayerCompatibility is	s contained an	nd the HighLayerCha	aracteristics is	s derived from the	
	received REL High Layer			e 6.1.1.7-3		
ISUP Parameter values	REL: ATP High Layer C	compatibility =	HLC_value			
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" enco</th <th>oding="utf-8"?:</th> <th>></th> <th></th> <th></th>	oding="utf-8"?:	>			
	PSTN	_				
	HighLayerCompatibili	ty				
	HLOctet3					
	CodingStandard>00<					
	Interpretation>	Interpretation>100<				
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCha	racteristics>H	LC_value<			
Comments						
Message flows	Mg		MGCF		ISUP	
_	INVITE	→	=	IAM		
	180 Ringing	←	•	- ACM		
	SIP_final_Response	←	•	REL		
	ACK	→	-	1777		

TP number	TP_107_007	Reference		7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_	of_REL/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	An ATP Low Layer Compatibi	lity IE present in a REL is	mapp	ed into the PSTN XML		
	LowLayerCompatibility in the					
Test Purpose	Ensure that on receipt of a RE					
	ATP, a SIP final response as					
	LowLayerCompatibility is con-					
	the received REL Low Layer (in tabl	le 6.1.1.7-4		
ISUP Parameter values	REL: ATP Low Layer Compa	atibility = ITC_value				
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" encoding</th <th>j="utf-8"?></th> <th></th> <th></th>	j="utf-8"?>				
	PSTN					
	LowLayerCompatibility>	LowLayerCompatibility>				
	LLOctet3>					
	CodingStandard>00<					
		InformationTransferCapability>ITC_value<				
	LLOctet4>					
	TransferMode>00<					
	InformationTransfe	rRate>10000<				
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE -	→	→	IAM		
	180 Ringing	(←	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	480 Temporarily unavailable	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS not possible or absent
VA_23	500 Server Internal error	Cause value No 38 (Network out of order)
VA_24	503 Service Unavailable	Cause value No 41 (Temporary failure)
VA_25	503 Service Unavailable	Cause value No 42 (Switching equipment congestion)
VA_26	500 Server Internal error	Cause value No 43 (Access information discarded)
VA_27	503 Service Unavailable	Cause value No 44 (Requested channel not available)
VA_28	500 Server Internal error	Cause value No 46 (Precedence call blocked)
VA_29	503 Service Unavailable	Cause value No 47 (Resource unavailable (class default))
VA_30	488 Not acceptable here	Cause value No 50 (requested facility no subscribed)
VA_31	603 Decline	Cause value No 55 (Incoming class barred within Closed User Group (CUG))
VA_32	603 Decline	Cause value No 57 (bearer capability not 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	480 Temporarily unavailable	Cause value No. 102 (recovery on timer expiry)
VA_48	501 Not Implemented	Cause value No 103 (Non-existent parameter passed on)

SIP_final_Response	←SIP Message	← REL
	Status code	Cause parameter
VA_49	501 Not Implemented	Cause value No 110 (Message with 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	'01001'
ITC_VA_3	7 kHz audio	'10001'

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

TP number	TP_108_001	Reference	е	7.2.3.1.9 2)	
TSS reference	SIP-ISUP/Basic call/R	eceipt_of_RSC-GR	S-CGB/		
Selection criteria					
Test Purpose name	RSC received before a	an early dialogue wa	as established		
Test Purpose	Ensure that the SUT dialogue is established	•	IP message if a R	SC is received and no early	/
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg		MGCF	ISUP	
_	INVITE	→	→	IAM	
	100 Trying	←			
			←	RSC	
			→	RLC	

TP number	TP_108_002	Reference		7.2.3.1.9	9 2)
TSS reference	SIP-ISUP/Basic call/R	eceipt_of_RSC-GRS-CGB/		•	,
Selection criteria					
Test Purpose name	GRS received before	an early dialogue was estab	lished		
Test Purpose	Ensure that the SUT of dialogue is established	does not send any SIP mess d	age if a Gl	RS is rece	ived and no early
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF			ISUP
	INVITE (1)	→	→	IAM	
	100 Trying	←			
	INVITE (2)	→	→	IAM	
	100 Trying	←			
			←	GRS	
			→	GRA	

TP number	TP_108_003	Reference	7.2.3.1.9 2)
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_RSC-GRS-CGB/	
Selection criteria			
Test Purpose name	CGB received before an early		
Test Purpose	Ensure that the SUT does not	send any SIP message if a CG	B hardware oriented is
	received and no early dialogue	is established	
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE (1)	→	IAM
	100 Trying	←	
	INVITE (2)	→	IAM
	100 Trying	←	
		←	GGB
		→	GGBA

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

TP number	TP 108 005	Reference		7.2.3.1.9 2)	
TSS reference	SIP-ISUP/Basic call/Receipt or			1.2.6.1.6.2)	
Selection criteria					
	CDC received ofter an early dis	alagua waa aatabliahaa			
Test Purpose name	GRS received after an early dia	0			
Test Purpose	Ensure that the SUT is able to				
	affected in the range, if a GRS	is received and an ear	ly dialo	gue is established	
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF		ISUP	
	INVITE (1)	→	→	IAM	
	180 Ringing	←	←	ACM	
	INVITE (2)	→	→	IAM	
	180 Ringing	←	←	ACM	
	480 Temporarily Unavailable (1	I) ←	←	GRS	
	ACK	→	→	GRA	
	480 Temporarily Unavailable (2	2) ←			
	ACK	→			

I——	I==	I= .	I=
TP number	TP_108_006	Reference	7.2.3.1.9 2)
TSS reference	SIP-ISUP/Basic call/Receipt_of	f_RSC-GRS-CGB/	
Selection criteria			
Test Purpose name	CGB received after an early dia	alogue was established	
Test Purpose	Ensure that the SUT is able to affected in the range, if a CGB established		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE (1)	→ →	IAM
	180 Ringing	← ←	ACM
	INVITE (2)	→ →	IAM
	180 Ringing	+ +	ACM
	480 Temporarily Unavailable (1	· · · · · ·	GGB
	ACK	→ →	GGBA
	480 Temporarily Unavailable (2	2) ←	

TP number	TP_108_007	Reference	7.2.3.1.9 1)
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_RSC-GRS-CGB/	
Selection criteria			
Test Purpose name	RSC received after a confirmed	d dialogue was established	
Test Purpose	Ensure that the SUT is able to	send a BYE request if a RSC	is received and a confirmed
	dialogue is established		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→	IAM
	180 Ringing	+ +	ACM
	200 OK INVITE	+ +	ANM
	ACK	→	
	BYE	+ +	RSC
	200 OK BYE	→	RLC

TP number	TP_108_008	Reference		7.2.3.1.9 1)	
				[1.2.3.1.9 1]	
TSS reference	SIP-ISUP/Basic call/Receipt	t_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	GRS received after a confirm	med dialogue was establish	ned		
Test Purpose	Ensure that the SUT is able			ialogue affected in the range	e, if
	a GRS is received and a cor	nfirmed dialogue is establis	hed		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF		ISUP	
_	INVITE (1)	→	→	IAM	
	180 Ringing	←	←	ACM	
	200 OK INVITE	←	←	ANM	
	ACK	→			
	7.0.1	-			
	INVITE (2)	→	→	IAM	
	180 Ringing	`	É	ACM	
	200 OK INVITE	`	÷	ANM	
			_	AINIVI	
	ACK	→			
	BYE (1)	←	←	GRS	
	200 OK BYE	• •	÷	GRA	
	200 OK BIL	-	•	ONA	
	BYE (2)	←			
	200 ÔK BYE	→			

TP number	TP_108_009	Reference		7.2.3.1.9 1)	
TSS reference	SIP-ISUP/Basic call/F	Receipt_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	CGB received after a	confirmed dialogue was estab	lished		
Test Purpose		s able to send a BYE request			ne range, if
	a CGB hardware orio	ented is received and a confire	med dialo	gue is established	
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF		ISUP	
	INVITE (1)	→	→	IAM	
	180 Ringing	←	←	ACM	
	200 OK INVITE	←	←	ANM	
	ACK	→			
	INVITE (2)	→	→	IAM	
	180 Ringing	←	+	ACM	
	200 OK INVITE	-	-	ANM	
	ACK	→			
	BYE (1)	←	←	GGB	
	200 OK BYE	→	→	GGBA	
	BYE (2)	←			
	200 OK BYE	→			

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 confirm	ed dialogue	
Test Purpose	Ensure that on receipt of a REF	FER request in the confirmed of	lialogue, a 403 Forbidden
	response to this REFER reques	st is sent	
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→ →	IAM
	100 Trying	←	
	180 Ringing	← ←	ACM
	200 OK (INVITE)	+ +	ANM
	ACK	→	
	REFER	→	
	403 Forbidden	←	
		Apply post test routine	

TP number	TP_109_002	Reference	7.2.3.1.9a				
TSS reference	SIP-ISUP/Basic call/Receipt_of	f_REFER/					
Selection criteria							
Test Purpose name	REFER received in the early di	alogue					
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	→	IAM				
	100 Trying	←					
	180 Ringing	← ←	ACM				
	REFER	→					
	403 Forbidden	←					
		Apply post test routine					

6.1.1.10 Autonomous Release at I-MGCF

TP number	TP_110_001	Reference	7.2.3.1.10
TSS reference	SIP-ISUP/Basic call/Autonomo	ous_Release/	
Selection criteria	NOT PICS 7.2.3/1 AND NOT F	PICS 7.2.3/2	
Test Purpose name	Determination that insufficient	digits received	
Test Purpose	Ensure that on receipt of an IN received, the SUT sends a 484	IVITE request and the SUT det 4 Address Incomplete final resp	
ISUP Parameter values		· .	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→	
	100 Trying	←	
	484 Address Incomplete	←	
	ACK	→	

TP number	TP_110_002	Reference	7.2.3.1.10
TSS reference	SIP-ISUP/Basic call/Autonom	ous_Release/	
Selection criteria			
Test Purpose name	Connection request is not rou	table	
Test Purpose	Ensure that on receipt of an IN congestion, the SUT sends a		UT is unable to route the call due to able final response
ISUP Parameter values			•
SIP Parameter values			
Comments	Prepare the SUT that a call is	not routeable e.g. no cir	cuit available
Message flows	Mg	MGCF	ISUP
		Apply pre test rout	ine
	INVITE	→	
	100 Trying	←	
	480 Temporarily Unavailable	←	
	ACK .	→	

TP number	TP_110_003	Reference		7.2.3.1.10		
TSS reference	SIP-ISUP/Basic call/Autonom	SIP-ISUP/Basic call/Autonomous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUP/	BICC compatibility proced	ure			
Test Purpose	parameter compatibility is set or #110 and in addition a 500	Ensure that on receipt of an unknown parameter in an ISUP/BICC message and the parameter compatibility is set to 'Release call', a REL is sent the cause value is set to #99 or #110 and in addition a 500 Server Internal Error is sent, the Reason header cause value is set to the same value as sent in the REL				
ISUP Parameter values	CPG: unknown parameter, pa REL: cause value = 99 or 11		elease	e call		
SIP Parameter values	500 Server Internal Error: Re	ason: cause=99 or 110				
Comments						
Message flows	Mg	MGCF		ISUP		
		Apply pre test routing	ne			
	INVITE	→	→	IAM		
	180 Ringing	←	←	ACM		
			←	CPG		
	500 Server Internal Error	←	→	REL		
	ACK	→	+	RLC		

TP number	TP_110_004	Reference	7.2.3.1.10			
TSS reference	SIP-ISUP/Basic call/Autonom	SIP-ISUP/Basic call/Autonomous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUP/E	BICC compatibility procedure	Э			
Test Purpose	Ensure that on receipt of an u	nknown ISUP/BICC messag	e and the message compatibility			
	is set to 'Release call', a REL	is sent the cause value is se	et to #97 and in addition a 500			
	Server Internal Error is sent, t	he Reason header cause va	lue is set to the same value as			
	sent in the REL					
ISUP Parameter values	Unknown message: message	compatibility = release call				
	REL: cause value = 97					
SIP Parameter values	500 Server Internal Error: Rea	ason: cause=97				
Comments						
Message flows	Mg	MGCF	ISUP			
		Apply pre test routine				
	INVITE	→	→ IAM			
	180 Ringing	(← ACM			
		•	<any message="" unknown=""></any>			
	500 Server Internal Error	(→ REL			
	ACK	→	F RLC			

TP number	TP 110 005	Refere	ence		7.2.3.1.	10		
TSS reference	SIP-ISUP/Basic call/Autono	mous Rel	ease/		1.12.0			
Selection criteria								
Test Purpose name	Call release due to T7 expir	У						
Test Purpose	Incomplete is sent and the o	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	(схр., у	→	REL			
	ACK	→		←	RLC			

TP number	TP_110_006	Reference		7.2.3.1.10				
TSS reference	SIP-ISUP/Basic call/Autonomo	SIP-ISUP/Basic call/Autonomous_Release/						
Selection criteria								
Test Purpose name	Call release due to T9 expiry							
Test Purpose	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: F	Reason: cause=19						
Comments								
Message flows	Mg	MGCF		ISUP				
	INVITE	→	→	IAM				
	180 Ringing	←	←	ACM				
		T9 expiry						
	480 Temporarily Unavailable	←	→	REL				
	ACK	→	+	RLC				

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

6.1.2.1 Sending of INVITE

TP number	TP_201_001	Reference	7.2.3.2.1
TSS reference	ISUP-SIP/Basic call/S	Sending_of_INVITE/	·
Selection criteria			
Test Purpose name	IAM received, a INVI	TE is sent	
Test Purpose	Ensure that on receip	ot of an IAM message, an INVI	TE request is sent
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM	→	→ INVITE
			100 Trying
		Apply post test r	outine

TP number	TP 201 002	Reference	7.2.3.2.1.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 7.2.1/4	<u> </u>				
Test Purpose name	IAM received and COT received	requested or performed, th	e 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	check performed on pre-		eck required on this circuit or continuity sful			
SIP Parameter values						
Comments						
Message flows	Mg IAM	MGCF	ISUP			
	сот	→ Apply post test	→ INVITE ← 100 Trying routine			

TP number	TP_201_003	Reference	7.2.3.2.1.2			
TSS reference	ISUP-SIP/Ba	sic call/Sending_of_INVITE/				
Selection criteria	PICS 7.2.1/3					
Test Purpose name	Preconditions	indicated in the supported header				
Test Purpose	Ensure that o	n receipt of an IAM and the continuity a previous circuit' or 'Continuity check				
		nt and the Supported header contains				
	the COT mes	sage is received, an UPDATE request	is sent to fulfil the preco	nditions		
ISUP Parameter values		AM: Nature of connection indicator= continuity check required on this circuit or continuity				
		check performed on previous circuit				
		uity indicator=continuity check success	ful			
SIP Parameter values		orted: precondition, 100rel				
	SDP	a=curr:qos local none				
		a=curr:qos remote none				
		a=des:qos mandatory local sendrecv				
		a=des:qos none remote sendrecv				
	183: Require:	100rol				
	SDP	a=curr:qos local none				
	SDI	a=curr:qos remote none				
		a=des:qos mandatory local sendrecv				
		a=des:qos mandatory remote sendre	CV			
		a=conf:gos remote sendrecv	•			
		, , , , , , , , , , , , , , , , , , , ,				
	UPDATE:					
	SDP	a=curr:qos local sendrecv				
		a=curr:qos remote none				
		a=des:qos mandatory local sendrecv				
		a=des:qos mandatory remote sendre	CV			
		A TE				
	200 OK UPD. SDP	a=curr:qos local sendrecv				
	SDF	a=curr:qos remote sendrecv				
		a=des:gos mandatory local sendrecv				
		a=des:qos mandatory remote sendre	:V			
Comments		a acceptance of the contract o				
Message flows	Mg	MGCF	IS	SUP		
	IAM	→	→ INVITE			
			100 Trying			
			← 183 Session F	Progress		
			→ PRACK	•		
			← 200 OK (PRA	CK)		
	COT	→	→ UPDATE	,		
			← 200 OK (UPD	ATE)		
		Apply post test re	outine	·		
	l	Apply post test in	-uiv			

TP number	TP 201 004	Reference	7.2.3.2.1.3			
TSS reference	ISUP-SIP/Basic call/Sending_	SUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 7.2.1/11	PICS 7.2.1/11				
Test Purpose name	Information request procedure	successful, Calling party numb	er in INF received			
Test Purpose	Ensure that on receipt of an IA	AM and no Calling party number	is present, an Information			
	Request (INR) message is ser	nt. On receipt of an Information	(INF) message containing a			
	calling party number the initial	INVITE request is sent				
ISUP Parameter values		IAM: No calling party number present				
	INR: Calling party address re	equest indicator=calling party a	ddress requested			
	INF: Calling party address re	esponse=calling party address i	ncluded			
	Calling party number					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →					
	INR ←					
	INF →	→	INVITE			
	← 100 Trying					
		Apply post test routine				

TP number	TP_201_005		Reference	7.2.3.2.1.3
TSS reference	ISUP-SIP/Basic of	call/Sending_c	f_INVITE/	<u>.</u>
Selection criteria	PICS 7.2.1/11 AN	ND PICS 7.2.1	/12	
Test Purpose name	Information reque call is rejected	est procedure	not successful, no Cal	ling party number in INF received, the
Test Purpose	Request (INR) m	essage is sen		r number is present, an Information ermation (INF) message and no
ISUP Parameter values	INR: Calling pa			g party address requested address not included
SIP Parameter values		•	, ,	
Comments				
Message flows	Mg IAM INR INF REL RLC	→ ← → ←	MGCF Apply post test ro	ISUP
	ļ		Apply post lest for	utille

TP number	TP_201_006	Reference	7.2.3.2.1.3				
TSS reference	ISUP-SIP/Basic call/Sending_o	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 7.2.1/11 AND NOT PICS	7.2.1/12					
Test Purpose name	Information request procedure call is continued	not successful, no Calling part	y number in INF received, the				
Test Purpose	Request (INR) message is sen	Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message and no Calling party number is present, the call is continued					
ISUP Parameter values		r present equest indicator=calling party a esponse=calling party address					
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM →						
	INR ←						
	INF → INVITE						
	← 100 Trying						
		Apply post test routine					

TP number	TP 201 007		Reference	7.2.3.2.1.3			
				1.2.3.2.1.3			
TSS reference	ISUP-SIP/Ba	SUP-SIP/Basic call/Sending_of_INVITE/					
Selection criteria	PICS 7.2.1/11						
Test Purpose name	Information re	equest procedure	not successful, T 33 is	expired			
Test Purpose			M and no Calling party t. If timer T33 is expired	number is present, an Information d, the call is rejected			
ISUP Parameter values		31 . 3					
SIP Parameter values							
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM	→					
	INR	←	Start T ₃₃				
	REL	←	T ₃₃ Expiry				
	RLC	→					
			Apply post test rou	itine			

TP number	TP_201_008	Reference	7.2.3.2.1.4 a)		
TSS reference	SUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria					
Test Purpose name	End of address signalling dete	rmined by receipt of end-of-pul	sing signal		
Test Purpose		Ensure that on receipt of an IAM followed by several SAMs and the called party number contains the end-of-pulsing (ST) signal , the initial INVITE is sent			
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →				
	SAM →				
	SAM →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

TP number	TP_201_009	Reference	7.2.3.2.1.4 b)		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria					
Test Purpose name	End of address signalling the national numbering pl		ne maximum number of digits used in		
Test Purpose	Ensure that on receipt of an IAM followed by several SAMs and the called party number contains maximum number of digits used in the national numbering plan, the initial INVITE is sent				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	.,	MGCF →	ISUP		
	SAM	Apply post test ro	→ INVITE ← 100 Trying outine		

TP number	TP_201_010	Refe	rence	7.2.3.2.1.4 c)		
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria						
Test Purpose name	_	End of address signalling determined by receipt of sufficient number of digits to route the call to the called party				
Test Purpose	Ensure that on receipt of an IAM followed by several SAMs and the called party number contains a sufficient number of digits to route the call to the called party , the initial INVITE is sent					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg IAM SAM	→	MGCF	ISUP		
	SAM	→ Ap	⊋ € ply post test routine	100 Trying		

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

TP number	TP_201_012		Reference		7.2.3.2.1.4	
TSS reference	ISUP-SIP/Basic call/	SUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria						
Test Purpose name	Early ACM is sent af	ter expiry	of Ti/w2 receipt of en	d-of-pulsi	ng signal	
Test Purpose		Ensure that an initial INVITE is sent after receipt of end-of-pulsing signal, the timer Ti/w2 is started. After expiry of Ti/w2 an ACM is sent and the called party status indicator is set to 'no indication'				
ISUP Parameter values	ACM: Called party s	status=no	indication			
SIP Parameter values						
Comments						
Message flows	Mg		MGCF		ISUP	
	IAM	→				
	SAM	→				
	SAM	→	Start Ti/w2	→	INVITE	
				←	100 Trying	
	ACM	←	Timeout Ti/w2			
			Apply post test r	outine		

TP number	TP_201_013		Reference		7.2.3.2.1.4	
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria						
Test Purpose name	Early ACM is sent a national numbering	•	y of Ti/w2 receipt of th	e maximu	m number of	digits used in the
Test Purpose	the national number	ring plan,	is sent after receipt of the timer Ti/w2 is star dicator is set to 'no inc	ted. After		
ISUP Parameter values	ACM: Called party	status=n	o indication			
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
	IAM	→				
	SAM	→				
	SAM	→	Start Ti/w2	→	INVITE	
				←	100 Trying	
	ACM	←	Timeout Ti/w2		, 0	
			Apply post test r	outine		

TP number	TP_201_014	Reference	7.2.3.2.1.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria					
Test Purpose name		xpiry of Ti/w2 receipt of a	a sufficient number of digits to route the		
	call to the called party				
Test Purpose			of a sufficient number of digits to route the		
			After expiry of Ti/w2 an ACM is sent and		
	the called party status inc	dicator is set to 'no indica	tion'		
ISUP Parameter values	ACM: Called party statu	s=no indication			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→			
	SAM	→			
	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			
TSS reference	ISUP-SIP/Basic call/Sending	SUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 7.2.3/3					
Test Purpose name	A PSTN XML SendingComp determined	eteIndication is sent if the end o	of the address signalling is			
Test Purpose	Ensure that the end of the address signalling is determined a PSTN XML SendingCompleteIndication is sent					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg IAM → SAM → SAM →	MGCF → ← Apply post test routine	ISUP INVITE 100 Trying			

TSS reference ISUP-SIP/Basic call/Sending_of_INVITE/ Selection criteria PICS 7.2.3/1 Test Purpose name Overlap dialling using the in-dialogue method Test Purpose Ensure that on receipt of a 183 Session Progress as a response to an INVITE containing an insufficient number of digits, the SUT sends all the digits received in additional SAMs in an additional INVITE and INFO requests depends on whether a final response or provisional response was received for the initial INVITE request. The INFO request contains an x-session-info attachment SubsequentDigit includes the digits received in the SAMs ISUP Parameter values INFO: SubsequentDigit: <digits in="" received="" sams=""> INFO: SubsequentDigit: <digits in="" received="" sams=""> INFO: SubsequentDigit: <digits in="" received="" sams=""> INVITE 484 Address Incomplete → ACK SAM → INVITE ← 484 Address Incomplete → ACK SAM → INFO ← 200 OK (INFO) CASE B SAM → INFO ← 200 OK (INFO) SAM → INFO ← 200 OK (INFO) CASE A ■ INFO ← 200 OK (INFO) ■ INFO ← 200 OK (INFO) ■ INFO ← 200 OK (INFO) ■ INFO ← 200 OK (INFO) </digits></digits></digits>	TP number	TP_201_016	Referen	се	7.2.3.2.1a.2
Test Purpose name Overlap dialling using the in-dialogue method Ensure that on receipt of a 183 Session Progress as a response to an INVITE containing an insufficient number of digits, the SUT sends all the digits received in additional SAMs in an additional INVITE and INFO requests depends on whether a final response or provisional response was received for the initial INVITE request. The INFO request contains an x-session-info attachment SubsequentDigit includes the digits received in the SAMs ISUP Parameter values SIP Parameter values INFO: SubsequentDigit: <digits in="" received="" sams=""> Comments Mg MGCF ISUP IAM ACASE A 484 Address Incomplete ACK SAM NINFO: ACK SAM NINFO: CASE B Last Session Progress SAM INFO: Last B INFO</digits>	TSS reference	ISUP-SIP/Basic call/Sen	ding_of_INVITE	:/	
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 request 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	Selection criteria	PICS 7.2.3/1			
an insufficient number of digits, the SUT sends all the digits received in additional SAMs in an additional INVITE and INFO requests depends on whether a final response or provisional response was received for the initial INVITE request. The INFO request contains an x-session-info attachment SubsequentDigit includes the digits received in the SAMs ISUP Parameter values SIP Parameter values INFO: SubsequentDigit: <digits in="" received="" sams=""> Comments Mg MGCF ISUP IAM</digits>	Test Purpose name	Overlap dialling using the	e in-dialogue me	ethod	
SIP Parameter values INFO: SubsequentDigit: <digits in="" received="" sams=""> Comments </digits>	·	an insufficient number of an additional INVITE and provisional response was contains an x-session-in	f digits, the SUT d INFO requests s received for th	sends all the digits r depends on whethe e initial INVITE requ	eceived in additional SAMs in er a final response or est. The INFO request
Comments Mg MGCF ISUP IAM → HNVITE 484 Address Incomplete ACK SAM → INVITE 183 Session Progress SAM → INFO 200 OK (INFO) CASE B ← 183 Session Progress SAM → INFO ← ← 200 OK (INFO) ← SAM → INFO ← ← 200 OK (INFO) ←					
Message flows Mg IAM CASE A HAM CASE A		INFO: SubsequentDigit:	<digits received<="" th=""><th>l in SAMs></th><th></th></digits>	l in SAMs>	
IAM	• • • • • • • • • • • • • • • • • • • •				
→ ACK SAM → INVITE ← 183 Session Progress SAM → INFO ← 200 OK (INFO) CASE B ← 183 Session Progress SAM → INFO ← 200 OK (INFO) SAM → INFO ← 200 OK (INFO)	Message flows	IAM			
 ★ 183 Session Progress SAM → INFO ★ 200 OK (INFO) CASE B ★ 183 Session Progress SAM → INFO ★ 200 OK (INFO) SAM → INFO ★ 200 OK (INFO) 				=	•
CASE B ← 183 Session Progress SAM → INFO ← 200 OK (INFO) SAM → INFO ← 200 OK (INFO)		SAM	→	=	
 ★ 183 Session Progress SAM → INFO ★ 200 OK (INFO) SAM → INFO ★ 200 OK (INFO) 		SAM	→	=	
 ← 200 OK (INFO) SAM → INFO ← 200 OK (INFO) 		CASE B		←	183 Session Progress
← 200 OK (INFO)		SAM	→	-	
Anniv nost test rolltine		SAM	_	=	

TP number	TP 201 0	17	Reference	7.2.3.2.1a.3		
TSS reference		Basic call/Sending of		7.2.3.2.1d.3		
		<u> </u>	_IIN V I I E/			
Selection criteria	PICS 7.2.3					
Test Purpose name	Overlap di	alling using the multip	e INVITE method			
Test Purpose	containing additional	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	INVITE: Request URI <all and="" digits="" iam="" in="" received="" sams="" the=""> From: tag=<equal initial="" invite="" to=""> Call-ID: <equal initial="" invite="" to=""></equal></equal></all>					
Comments						
Message flows		Мg	MGCF	ISUP		
	IAM	→	→	INVITE		
		← 484 Address Incomplete → ACK				
	SAM	→	→	INVITE 484 Address Incomplete		
			→	ACK		
	SAM	→	→	INVITE		
			Apply post test routine			

TP number	TP_201_018	Reference	7.2.3.2.1.1a.3			
TSS reference	ISUP-SIP/Basic call/Sending	g_of_INVITE/				
Selection criteria						
Test Purpose name	After expiry of Ti/w2 addition	al received SAMs are ignored				
Test Purpose		/w2 an ACM is sent and the calle	ed party status indicator is set			
	to 'no indication' and addition	nal received SAMs are ignored				
ISUP Parameter values	ACM: Called party status=n	o indication				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →					
	SAM →					
	SAM →	Start Ti/w2 →	INVITE			
		+	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_o	of_INVITE/	
Selection criteria	PICS 7.2.3/1		
Test Purpose name	Overlap dialling using the in-dia	alogue method	
Test Purpose	Ensure that on receipt of a 180		procedure is used an
	additional received SAM is igno	ored	
ISUP Parameter values			
SIP Parameter values	INFO: SubsequentDigit: <digit< th=""><th>s received in SAMs></th><th></th></digit<>	s received in SAMs>	
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
		+	484 Address Incomplete
		→	ACK
	SAM →	→	INVITE
		←	183 Session Progress
	SAM →	→	INFO
		←	200 OK (INFO)
	ACM ←	←	180 Ringing
	SAM →		
		Apply post test routine	

TP number	TP_201_	020	Reference		7.2.3.2.1a.3
TSS reference	ISUP-SIF	P/Basic call/Sending_c	f_INVITE/		
Selection criteria	PICS 7.2	.3/2			
Test Purpose name	Overlap o	dialling using the multi	ple INVITE method		
Test Purpose	Ensure th	nat on receipt of a 180	Ringing while the multip	le IN\	/ITE procedure is used an
	additiona	I received SAM is igno	ored		
ISUP Parameter values					
SIP Parameter values	INVITE:		e received digits in IAM a	ind S	AMs>
		From: tag= <equal th="" to<=""><th></th><th></th><th></th></equal>			
		Call-ID: <equal in<="" th="" to=""><th>tial INVITE></th><th></th><th></th></equal>	tial INVITE>		
Comments					
Message flows		Mg	MGCF		ISUP
	IAM	→		→	INVITE
				←	484 Address Incomplete
				→	ACK
	SAM	→		→	INVITE
				←	484 Address Incomplete
				→	ACK
	SAM → INVITE				
	ACM	÷		É	180 Ringing
	SAM	÷		•	. co . anging
	0,,		Apply post test routi	ne	

TP number	TP_201_02	21	Reference		7.2.3.2.1a.3
TSS reference		Basic call/Sending_of			
Selection criteria		/1 AND PICS 7.2.1/3			
Test Purpose name	Overlap dia	alling using the multip	ole INVITE method and	preco	nditions used
Test Purpose	Ensure that performed or requests ar value prece	t on receipt of an IAN on a previous circuit' re sent for all digits to	I and the continuity income or 'Continuity check repaired and the continuity check repaired and the continuity and the continuity are continuity.	dicator equired e Supp	is set to 'Continuity check on this circuit' the INVITE orted header contains the ved, an UPDATE request is
ISUP Parameter values			ator= continuity check	require	ed on this circuit or continuity
	check perfo	ormed on previous ci	-	•	
SIP Parameter values	F (From: tag= <equal to<br="">Call-ID: <equal init<br="" to="">Supported: precondit a=curr:qos local r a=curr:qos remot</equal></equal>	ial INVITE> ion, 100rel none e none atory local sendrecv	and S	AMs>
	183: Requii SDP	a=curr:qos local r a=curr:qos remot a=des:qos manda	e none atory local sendrecv atory remote sendrecv		
	UPDATE: SDP				
Communic	200 OK UP SDP	a=curr:qos local s a=curr:qos remot a=des:qos manda a=des:qos manda	e sendrecv atory local sendrecv atory remote sendrecv		
Comments Massage flows			e duration of timer T8		ISUP
Message flows	IAM SAM	lg →	MGCF	→ ← → + +	INVITE 484 Address Incomplete ACK INVITE 484 Address Incomplete ACK
	SAM	→		→ ← → ←	INVITE 183 Session Progress PRACK 200 OK (PRACK)
	СОТ	→	Apply post test rou	→	UPDATE 200 OK (UPDATE)

TP number	TP_201_022	Reference	7.2.3.2.1a.3		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_INVITE/			
Selection criteria	PICS 7.2.3/1				
Test Purpose name	Timer Ti/w3 expires, REL caus	se 28 is sent			
Test Purpose	Ensure that on expiry of timer	Ti/w3 a REL is sent and the car	use value is set to #28		
ISUP Parameter values	REL: Cause=invalid number	format (address incomplete)			
SIP Parameter values	INVITE: Request URI <all <equal="" call-id:="" from:="" in<="" tag="<equal" th="" the="" to=""><th></th><th>AMs></th></all>		AMs>		
Comments	·				
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		Start Ti/w3	484 Address Incomplete		
		→	ACK		
	SAM -	→	INVITE		
		Start Ti/w3 ←	484 Address Incomplete ACK		
	REL ← Timeout Ti/w3 RLC →				
		Apply post test routine			

-	I—		T					
TP number	TP_201_023	Reference	7.2.3.2.1.5					
TSS reference	ISUP-SIP/Basic call/Se	nding_of_INVITE/						
Selection criteria	PICS 7.2.1/5							
Test Purpose name	Mapping of USI and US	I prime into PSTN XML Bea	arerCapability element					
Test Purpose	Ensure that on receipt of SUT:	of an IAM that includes a US	I and USI Prime parameter then the					
	 Map the USI Prime 	into the second Bearer Ca	pability stated in the XML					
	BearerCapability e	lement and						
	 The first offered co 	dec is the CLEARMODE co	odec					
	 Map the USI into the 	ne first Bearer Capability sta	ited in the XML BearerCapability					
	element and		•					
	 The second offered 	d codec is a Audio codec						
ISUP Parameter values	IAM: USI=speech or 3,	1 kHz audio, USI prime=uni	estricted digital info with T/A					
SIP Parameter values	INVITE:							
	xml version="1.0" en</th <th>coding="utf-8"?></th> <th></th>	coding="utf-8"?>						
	PSTN							
	BearerCapability							
	BCoctet3							
		CodingStandard>00<						
	InformationT	InformationTransferCapability>mapped from USI<						
	BearerCapability							
		BCoctet3						
	CodingStand							
	InformationT	InformationTransferCapability>mapped from USI prime<						
	000							
	SDP:							
Comments	m=audio <proper n<="" port="" th=""><th colspan="6">m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper></th></proper>	m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper>						
Comments	NA	MOCE	ICUD					
Message flows	Mg	MGCF →	ISUP					
	IAM	7	→ INVITE					
		Amalanaattiit	← 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_o	of_INVITE/	·			
Selection criteria						
Test Purpose name	Called party number is mappe	d into Request URI in the sent	INVITE request			
Test Purpose	Ensure that on receipt of an IA of the sent INVITE request:	M the called party number is r	napped into the Request URI			
	country code of the netwo	dicator is set to 'National (sign rk in which the SUT is located eceived in the Called party nu	and a leading '+' is inserted			
	 If the nature of address sed digits received in the Callet 		' is inserted before the number			
ISUP Parameter values		National (significant) number o	r International number			
SIP Parameter values	INVITE: Request URI					
	sip: '+CC' <calle< th=""><th>d party number digits>@hostp</th><th>oortion; user=phone</th></calle<>	d party number digits>@hostp	oortion; user=phone			
	or					
		d party number digits>				
	if the called party number is a national number					
	sip: '+' <called digits="" number="" party="">@hostportion; user=phone</called>					
	or					
	tel: '+' <called digits="" number="" party=""></called>					
	if the called party number is an international number					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
		+	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/	1		
Selection criteria					
Test Purpose name	Called party number is mapp	ed into To header in the sent IN	IVITE request		
Test Purpose	Ensure that on receipt of an lof the sent INVITE request:	AM the called party number is r	mapped into the Request URI		
	country code of the netw	ndicator is set to 'National (sign rork in which the SUT is located received in the Called party nu	and a leading '+' is inserted		
		set to 'International number' a '+			
ISUP Parameter values	IAM: Called party number=	National (significant) number o	r International number		
SIP Parameter values	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone or tel: '+CC' <called digits="" number="" party=""> if the called party number is a national number sip: '+' <called digits="" number="" party="">@hostportion; user=phone or tel: '+' <called digits="" number="" party=""> if the called party number is an international number</called></called></called></called>				
Comments	MAN MOOF TOUR				
Message flows	Mg IAM →	MGCF → ← Apply post test routine	ISUP INVITE 100 Trying		

TP number	TP_201_026	Reference	7.2.3.2.2.2.			
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/				
Selection criteria						
Test Purpose name	Mapping of TMR into SDP					
Test Purpose	Ensure that on receipt of an IA	M the TMR_value is mapped i	nto the SDP according			
	table 6.1.2.1-1					
ISUP Parameter values	IAM: TMR=TMR_value					
SIP Parameter values	INVITE:					
	SDP					
	m= <media> <transport></transport></media>	m= <media> <transport> <fmt-list></fmt-list></transport></media>				
	a= rtpmap: <dynamic-p1< th=""><th colspan="5">a= rtpmap:<dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters></clock></encoding></dynamic-pt></th></dynamic-p1<>	a= rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
		←	100 Trying			
	Apply post test routine					

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

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

TP number	TP_201_027	Reference	7.2.3.2.2.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/			
Selection criteria					
Test Purpose name	AMR codec included				
Test Purpose	Ensure that on receipt of an IA				
	to speech or 3,1 kHz audio, the		aiiis aii Aivin Codec		
ISUP Parameter values	IAM: TMR=speech or 3,1 kHz	z audio			
SIP Parameter values	INVITE:				
	SDP:				
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>				
	a = <rtpmap dynamic="" pt=""> AMR</rtpmap>				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	Apply post test routine				

TP number	TP_201_028	Reference	7.2.3.2.2.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/			
Selection criteria					
Test Purpose name	Mapping of USI parameter				
Test Purpose	Ensure that on receipt of an IAI	M the USI_value is mapped in	to the SDP according		
	table 6.1.2.1-2				
ISUP Parameter values	IAM: User service information				
SIP Parameter values	INVITE:				
	SDP				
	m= <media> <transport> <fmt-list></fmt-list></transport></media>				
	a= rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	Apply post test routine				

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

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

TP number	TP_201_029	Re	ference	7.2.3.2.2.3A	
TSS reference	ISUP-SIP/Basic	call/Sending_of_IN	NVITE/		
Selection criteria					
Test Purpose name	Mapping of Cal	ling party's category	y into cpc parameter		
Test Purpose	Ensure that on receipt of an IAM the calling party's category CPC_value 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 p	party's category			
SIP Parameter values	INVITE: P-As	serted-Identity			
Comments					
Message flows	Mg		MGCF	ISUP	
	IAM	→	→	INVITE	
			←	100 Trying	
		Apply post test routine			

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

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

TP number	TP_201_030	Reference	7.2.3.2.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/			
Selection criteria	PICS 7.2.1/8				
Test Purpose name	HOP counter procedure suppo				
Test Purpose	Ensure that on receipt of the H	OP counter parameter, the val	ue is mapped into the		
	Max-Forwards header. The val	ue of the Max-Forwards heade	er is created from the HOP		
	counter value by applying a giv	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	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
	← 100 Trying				
		Apply post test routine	· · ·		

TP number	TP_201_0	031	Reference		7.2.3.2.2.5	
TSS reference	ISUP-SIP	/Basic call/Sen	ding_of_INVITE/		•	
Selection criteria						
Test Purpose name						
Test Purpose		For speech and video calls, the SUT shall insert an IMS Communication Service Identifier, indicating the IMS Multimedia Telephony Communication Service				
ISUP Parameter values			· ·			
SIP Parameter values	INVITE:	Contact: icsi-r Accept-Contact P-Asserted-S	- ·	ervice.ims	s.icsi.mmtel	
Comments			<u> </u>			
Message flows		Mg	MGCF		ISUP	
_	IAM	_	→	→	INVITE	
				←	100 Trying	
		Apply post test routine				

TP number	TP_201_032	Reference		7.2.3.2.2.6	
TSS reference	ISUP-SIP/Basic ca	II/Sending_of_INVITE/			
Selection criteria	PICS 7.2.1/9				
Test Purpose name	Support of P-Early	-Media header			
Test Purpose	Ensure that on rec	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-	-Media			
Comments					
Message flows	Mg	MGC	F	ISUP	
	IAM	→	→	INVITE	
			←	100 Trying	
		Apply post	test routine	-	

TP number	TP_201_033	Reference	7.2.3.2.2.7		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_INVITE/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of High Layer Compa	tibility IE into PSTN XML Highl	_ayerCompatibility		
Test Purpose		M and an ATP parameter is pro HighLayerCompatibility elemer ble 6.1.2.1-4			
ISUP Parameter values	IAM: ATP High Layer Compatibility High Layer Characteristics=HLC_VA				
SIP Parameter values	INVITE: PSTN XML MIME body xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4 HighLayerCharacte)< d>01<			
Comments					
Message flows	Mg IAM →	MGCF → Apply post test routine	ISUP INVITE 100 Trying		
		Apply post test routine			

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

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

TP number	TP_201_034	Reference	7.2.3.2.2.7		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_INVITE/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Low Layer Compat	tibility IE into PSTN XML LowL	ayerCompatibility		
Test Purpose	Ensure stat on receipt of an IA				
	Compatibility IE a PSTN XML I		it is present derived according		
	the ITC_VA as indicated in tab	le 6.1.2.1-5			
ISUP Parameter values	IAM:				
	ATP Low Layer Compatibility				
	InformationTransferCap	pability=ITC_VA			
SIP Parameter values	INVITE:				
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_VA<				
	LLOctet4>				
	TransferMode>00<				
	InformationTransfer	Rate>10000<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

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

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

TP number	TP_201_035	Reference	7.2.3.2.2.7		
TSS reference	ISUP-SIP/Basic call	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5			
Test Purpose name	Mapping of Bearer Capability IE into PSTN XML BearerCapability				
Test Purpose	Ensure stat on receipt of an IAM and an USI parameter is present, a PSTN XML BearerCapability element is present derived according the ITC_value as indicated in table 6.1.2.1-6				
ISUP Parameter values	USI Information Transfer Capability=ITC value				
SIP Parameter values	Information Transfer Capability=ITC_value INVITE: xml version="1.0" encoding="utf-8"? PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000< BCoctet5 Layer1Identification>01< UserInfoLayer1Protocol>00011<				
Comments					
Message flows	M g IAM	MGCF → Apply post test	ISUP → INVITE ← 100 Trying 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 7.2.1/5			
Test Purpose name	Mapping of Bearer Capability IE into PSTN XML BearerCapability			
Test Purpose	Ensure stat on receipt of an IAM and an UTI parameter is present ,a PSTN XML			
	HighLayerCompatibility element is present derived according the HLC_value as indicated			
	in table 6.1.2.1-7			
ISUP Parameter values	IAM: UTI			
	High Layer Characteristics> HLC_value			
SIP Parameter values	INVITE:			
	PSTN XML MIME body			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMethod>01<			
	HLOctet4			
0	HighLayerCharacteristics> HLC_value <			
Comments	Na	MOOF	IOLID	
Message flows	Mg	MGCF	ISUP	
	IAM →	→	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_c	of_INVITE/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Forward call indica	tor into PSTN XML ProgressIr	ndicator		
Test Purpose	Ensure that on receipt of an IAM the ISDN User Part indicator and the ISDN access				
	indicator of the Forward call ind		NXML ProgressIndicator		
	element according the roles PI	_value in table 6.1.2.1-8			
ISUP Parameter values	IAM: Forward call indicator				
	ISDN User Part indi	cator			
	ISDN access indicate	tor			
SIP Parameter values	INVITE:				
	PSTM XML MIME body				
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00	<			
	Location>yyyy<				
	ProgressOctet4				
	ProgressDescription				
Comments	The Progress indicator value 6	is not specified in Q.931			
Message flows	Mg	MGCF	ISUP		
	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	Forward call indicators parameter		PSTN XML body with Progress indicator No	
	ISDN User Part indicator	ISDN access indicator			
VA_01	0 (ISDN User Part not used all the way)		'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 way")	1 ("originating access ISDN")	'0000110'		

TP number	TP_201_038	Reference	7.2.3.2.2.7		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_INVITE/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of Progress Indicator	IE into PSTN XML ProgressIn	dicator		
Test Purpose	Ensure stat on receipt of an IAM and an ATP parameter is present containing a Progress				
	Indicator IE a PSTN XML Prog		nt derived according the		
	PI_VA as indicated in table 6.1	.2.1-9			
ISUP Parameter values	IAM:				
	ATP Progress Indicator				
	Progress Description=P	I_VA			
SIP Parameter values	INVITE:				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location>0000<				
	ProgressOctet4				
	ProgressDescription	>PI_VA<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	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_0	39	Reference	7.2.3.2.	2A1.1
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 7.2.2	<u>-</u> /1			
Test Purpose name	Number Po	ortability Separate Di	irectory Number Addr	essing Method is	used
Test Purpose	Ensure that on receipt of an IAM and the Called Directory Number is present Nature of				
	address indicator: "Network routing number in national (significant) number format" or				
		significant) number" INVITE us sent	or "Network routing n	umber in network	specific number
			RI is derived from the	Called Directory	Number '+CC' is
	-	fore the digitstring:			
			equest URI is derived	from the Called F	Party Number. '+CC'
	is inse	rted before the digits	string		•
			s added to the reques		
			field is derived from t	ne Called Director	y Number. '+CC' is
		fore the digitstring:			
			equest URI is derived	I from the Called I	Party Number. '+CC'
	is inserted before the digitstring				
			s added to the reques		
ISUP Parameter values	IAM: Called party number "National (significant) number"				
	Called Directory Number				
	Nature of address indicator:				
	"Network routing number in national (significant) number format" or "National (significant) number" or				
				a aifia numbar far	m a#"
SIP Parameter values	INVITE:		number in network s Called Directory Nun		
SIF Farailleter values	INVIIE.	number;npdi	Called Directory Null	iberz, m= +cc ca	alled party
			rectory Number>; rn=	+CC Called party	number;npdi
Comments			•	1 ,	· •
Message flows	N	Лg	MGCF		ISUP
	IAM	→		→ INVITE	
				← 100 Try	ing
			Apply post test ro	utine	

TP number	TP_201_040	Reference	7.2.3.2.2A1.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 7.2.2/2				
Test Purpose name	Number Portability Concatenated Addressing Method is used.				
Test Purpose	Ensure that on receipt of an IAM and the Called Directory Number is not present, the Nature of address indicator of the Called party number is set to: "Network routing number concatenated with called directory number" or "National (significant) number", an INVITE us sent The userpart of the request URI is derived from the Called Party Number - the prefix representing the Portability routing number is removed. '+CC' is inserted before the digitstring: • The rn parameter of the request URI is derived from the Called Party Number. The digits follow the prefix representing the Portability Routing Number are removed from the digitstring. '+CC' is inserted before the digitstring • The npdi URI parameter is added to the request URI The userpart of the To header field is derived from the Called Party Number- the prefix representing the Portability routing number is removed. '+CC' is inserted before the digitstring: • The 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. Number are removed from the digitstring. '+CC' is inserted before the digitstring.				
ISUP Parameter values	The npdi URI parameter is added to the request URI IAM: Called party number				
loo. Tarameter values		ture of address indicator:			
			enated with called directory number" or		
	"National (significant) number"				
SIP Parameter values		Number>;npdi	mber>; rn= <+CC Portability Routing = <+CC Portability Routing Number>;npdi		
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→	→ INVITE		
		Ammle	← 100 Trying		
	1	Apply post to	est routine		

TP number	TP_201_041	Reference	7.2.3.2.2A1.3		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 7.2.2/3				
Test Purpose name	Number Portability Separate Network Routing Number Addressing Method is used.				
Test Purpose	Ensure that on receipt of an IAM and the Network Routing Number is present Nature of address indicator: "Network routing number in national (significant) number format" or "Network routing number in network specific number format", an INVITE us sent The userpart of the request URI is derived from the Called Party Number. '+CC' is inserted before the digitstring: The rn parameter of the request URI is derived from the Network Routing Number. '+CC' is inserted before the digitstring The npdi URI parameter is added to the request URI The userpart of the To header field is derived from the Called Party Number. '+CC' is inserted before the digitstring: The rn parameter of the request URI is derived from the Network Routing Number.				
		'+CC' is inserted before the digitstring			
ISUP Parameter values	The npdi URI parameter is added to the request URI 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	Number>;npdi	Called Party Number>; rn= <- rty Number>; rn= <+CC Netwo			
Comments					
Message flows	Mg IAM →	MGCF → ← Apply post test routine	ISUP INVITE 100 Trying		

TP number	TP_201_042	Reference	7.2.3.2.2B.1		
TSS reference	ISUP-SIP/Basic call/Sending	g_of_INVITE/			
Selection criteria	PICS 7.2.2/5 AND PICS 7.2	.2/8			
Test Purpose name	С				
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 cic URI parameter of the Request URI of the sent INVITE request				
ISUP Parameter values	IAM: Transit Network Select	ion			
SIP Parameter values	INVITE: Request URI sip: <called number;cic="TNS" party="" th="" value<=""></called>				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	Apply post test routine				

TP number	TP_201_042	Reference	7.2.3.2.2.8		
TSS reference	ISUP-SIP/Basic call/S	Sending_of_INVITE/			
Selection criteria	PICS 7.2.2/5 AND PIC	CS 7.2.2/9			
Test Purpose name	Mapping of ISUP carr	ier selection information into 'c	lai' URI parameter		
Test Purpose	Ensure that on receipt of an IAM and a carrier selection information parameter is present, the value of the carrier selection information parameter is sent in the dai URI parameter of the Request URI of the sent INVITE request as indicated in table 6.1.2.1-10				
ISUP Parameter values	IAM: Transit Network	Selection			
SIP Parameter values	INVITE: Request URI sip: <called number;dai="SIP_dai</th" party=""></called>				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→	→ INVITE		
	← 100 Trying				
	Apply post test routine				

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

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

6.1.2.2 Receipt of CONTINUITY

TP number	TP_202_001	Reference	7.2.3.2.3		
TSS reference	ISUP-SIP/Basic call/Receipt_o	f_COT/			
Selection criteria	PICS 7.2.1/3				
Test Purpose name	COT received after INVITE was	s sent			
Test Purpose	When the requested preconditions in the IMS have been met and if outstanding continuity procedures have successfully been completed (COT with the Continuity Indicators parameter set to 'continuity check successful' is received), a SDP offer in a SIP UPDATE request shall be sent for each early SIP dialogue confirming that all the required preconditions have been met				
ISUP Parameter values	procenditions have been met				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	← ← →	INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK)		
	сот →		UPDATE 200 OK(UPDATE) e		

6.1.2.3 Sending of ACM and awaiting answer indication

TP number	TP_203_001	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria						
Test Purpose name	Detection of end of	address signalling by the expiry of	f Timer T i/w ₁			
Test Purpose		piry of Timer T i/w1 after the last as sent and the Called party's status	address signalling information was s indicator is set to 'no indication'			
ISUP Parameter values	ACM: Called party's	s status indicator=no indication				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	→				
		T i/w1 running				
	SAM	→				
		T i/w1 running				
	SAM	→				
		T i/w1 running				
	ACM	← T i/w1 expired				
		→ INVITE				
		•	 100 Trying 			
		Apply post test rou	ıtine			

TP number	TP_203_002	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_ACM/			
Selection criteria					
Test Purpose name	An ACM is sent after a 180 Rin	ging was received			
Test Purpose	Ensure that on receipt of a 180				
	header, the SUT sends an ACI	Л. The Called party's statu	s indicator is set to 'subscriber		
	free'. The ringing tone is sent by the SUT				
ISUP Parameter values	ACM: Called party's status ind	icator =subscriber free			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
	← /	Ringing tone	5 5		
		Apply post test routing	e		

TP number	TP_203_003	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call	/Sending_of_ACM/			
Selection criteria	PICS 7.2.1/9				
Test Purpose name	180 received, a P-E	arly-Media header is present			
Test Purpose	does not authorize the	Ensure that on receipt of a 180 Ringing provisional response with P-Early-Media header does not authorize the backward early media, the SUT sends an ACM. The Called party's status indicator is set to 'subscriber free'. The ringing tone is sent by the SUT			
ISUP Parameter values	ACM: Called party's	s status indicator =subscriber	ree		
SIP Parameter values					
Comments					
Message flows	Mg IAM ACM	MGCF → ← Ringing tone Apply post test	ISUP → INVITE ← 100 Trying ← 180 Ringing		

TP number	TP_203_004	Reference		7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/S	SUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/9 AND PIC	CS 7.2.1/14				
Test Purpose name	180 received, a P-Ear	ly-Media header not auth	orize early m	nedia is present		
Test Purpose	Ensure that on receipt of a 180 Ringing provisional response with P-Early-Media header does not authorize the backward early media, the SUT sends an ACM. The Called party's status indicator is set to 'subscriber free'. Based on local knowledge that the call is transited to a PSTN network the SUT does not generate the awaiting answer indication.					
ISUP Parameter values	ACM: Called party's	status indicator =subscrib	er free			
SIP Parameter values						
Comments						
Message flows	Mg	MGCF		ISU	Р	
-	IAM	→		VITE 00 Trying		
	ACM	←	← 18	30 Ringing		
	← Early media					
		Apply post to	st routine			

TP number	TP_203_006	Reference		7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Se	SUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/9	PICS 7.2.1/9				
Test Purpose name	181 received, a P-Early	181 received, a P-Early-Media header authorize early media is present				
Test Purpose	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 st	ACM: Called party's status indicator =no indication				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF		ISUP		
	IAM	→	→ INV ← 100	ITE Trying		
	ACM ← 181 Call is Being Forwarded					
		← Early media				
		Apply post	test routine			

TP number	TP_203_007	Refere	nce	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Se	SUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/9	PICS 7.2.1/9				
Test Purpose name	183 received, a P-Early	183 received, a P-Early-Media header authorize early media is present				
Test Purpose	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present authorizing backward early media, an ACM is sent. The Called party's status indicator is set to 'no indication' and an optional backward call indicator is present, the In-band information indicator is set to 'in-band information or appropriate pattern is now available'. The SUT does not generate the awaiting answer indication.					
ISUP Parameter values	ACM: Called party's status indicator =no indication					
SIP Parameter values						
Comments						
Message flows	Mg	M	GCF		ISUP	
	IAM	→	→	INVITE 100 Trying		
	ACM	←	(180 Ringing		
	← ← Early media					
		Appl	y post test routi	ne		

TP number	TP_203_008	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Sending	_of_ACM/				
Selection criteria						
Test Purpose name	ACM is sent after T i/w2 was	expired				
Test Purpose	Ensure that after expiry of tin is set to 'no indication'	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 i	ndicator =no indication				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM -	T i/w2 started → ←	INVITE 100 Trying			
	ACM ←	T i/w2 expired Apply post test routi	ne			

TP number	TP_203_009	Ref	ference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic c	all/Sending_of_A	CM/	·		
Selection criteria	PICS 7.2.1/15					
Test Purpose name	MGW plays out ea	arly media associ	ated with the Alert-Ir	nfo header		
Test Purpose		Ensure that the MGW plays a early media associated with the URL in an Alert-Info header contained in a received 180 Ringing response				
ISUP Parameter values						
SIP Parameter values	180: Alert-Info:	< Media resource	: URL>			
Comments						
Message flows	Mg		MGCF	ISUP		
	IAM	→	→	INVITE		
			←	100 Trying		
	ACM	←	←	180 Ringing		
	Apply post test routine					

TP number	TP_203_010	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Sending_c	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/9 AND PICS 7.2.1/	17				
Test Purpose name	The SUT terminates the sendir	ng of awaiting answer indication	٦.			
Test Purpose	Ensure that the SUT terminate	s the sending of awaiting answ	er indication as indicated in a			
	P-Early-Media received in a 18	3 Session Progress and the P-	Early-Media header			
	authorizes backward early med	dia				
ISUP Parameter values						
SIP Parameter values	183 : P-Early-Media: inactive					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	T i/w2 started → INVI	TE			
		← 100	Trying			
	ACM ←	T i/w2 expired				
	Ringing tone					
	← 183 Session Progress					
		Apply post test routine				

TP number	TP_203_011	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_	of_ACM/			
Selection criteria	PICS 7.2.1/9 AND PICS 7.2.1/	′16			
Test Purpose name	The SUT initiates the sending	of awaiting answer indication	٦.		
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header authorizes backward early media				
ISUP Parameter values					
SIP Parameter values	183 : P-Early-Media: sendonly				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →		NVITE 00 Trying		
	ACM ← 180 Ringing				
	← ← Early media				
		Apply post test routine	-		

TP number	TP_203_012	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	NOT PICS 7.2.1/18					
Test Purpose name	180 received, coding of Backw	ard call indicator in ACM	TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Medium	Requirement indicator=	speech or 3,1 kHz received.			
	Ensure that on receipt of a 180	Ringing response, an AC	CM is sent and the Backward call			
	indicator is set to the following	values:				
	 Charge indicator = charge 	Charge indicator = charge (10)				
	 Called party's status indicator = subscriber free (01) 					
	 Called party's category inc 	• Called party's category indicator = no indication (00)				
	 End-to-end method indicate 	 End-to-end method indicator = no end-to-end method available (00) 				
	 Interworking indicator = inf 	 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 = outgoing echo control device included (1) 				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz					
SIP Parameter values		·				
Comments						
Message flows	Mg MGCF ISUP					
	IAM →	→	INVITE			
		←	100 Trying			
	ACM ←	←	180 Ringing			
		Apply post test routing	5 5			

TP number	TP_203_013	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	NOT PICS 7.2.1/18	NOT PICS 7.2.1/18				
Test Purpose name	181 received, coding of Ba	ackward call indicator in ACM	TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Me	edium Requirement indicator=	speech or 3,1 kHz received.			
	Ensure that on receipt of a	a 181 Call is Being forwarded	response, an ACM is sent and the			
	Backward call indicator is	set to the following values:				
	 Charge indicator = ch 	arge (10)				
	 Called party's status i 	ndicator = no indication (00)				
		Called party's category indicator = no indication (00)				
	 End-to-end method in 	 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)				
	•	r = terminating access non-IS	• ` '			
		ndicator = outgoing echo cont				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM =	→	INVITE			
		+	100 Trying			
	ACM	÷ +	181 Call is Being forwarded			
		Apply post test routi				

TP number	TP 203 014	Reference	7.2.3.2.5.1				
TSS reference		SUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria		PICS 7.2.1/9 AND NOT PICS 7.2.1/18					
Test Purpose name	183 received, codin	83 received, coding of Backward call indicator in ACM TMR speech or 3,1 kHz audio					
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received. Ensure that on receipt of a 183 Session Progress response, 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)						
	TODIT GOODGO INGIGATOR - COMMINATING GOODGO HOM TODIT (6)						
IOUR R	Echo control device indicator = outgoing echo control device included (1) Transposicion Medium Presidente del control device included (1)						
ISUP Parameter values	IAM: Transmission	AM: Transmission Medium Requirement indicator=speech or 3,1 kHz					
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM ACM	→	→ INVITE← 100 Trying← 183 Session Progress				
			st test routine				

TP number	TP_203_015	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 7.2.4/2 AND NOT PICS 7.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.			
	Ensure that on receipt of a 18	30 Ringing response, an A0	CM is sent and the Backward call	
	indicator is set to the followin	g values:		
	 Charge indicator = charge 	je (10)		
	 Called party's status indi 	cator = subscriber free (01)		
	 Called party's category in 	ndicator = no indication (00)	
	 End-to-end method indic 	ator = no end-to-end metho	od available (00)	
	 Interworking indicator = i 	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 = outgoing echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values				
Comments				
Message flows	Mg MGCF ISUP			
	IAM →	→	INVITE	
		←	100 Trying	
	ACM ←	←	180 Ringing	
		Apply post test routing	ne	

TP number	TP_203_016	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.4/2 AND NOT PICS 7.2.1/18				
Test Purpose name	181 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
	Ensure that on receipt of	of a 181 Call is Being forwa	arded response, an ACM is sent and the		
	Backward call indicator	is set to the following valu	es:		
	 Charge indicator = 	charge (10)			
	 Called party's statu 	s indicator = no indication	(00)		
	 Called party's categ 	gory indicator = no indication	on (00)		
	 End-to-end method 	I indicator = no end-to-end	method available (00)		
	 Interworking indica 	tor = interworking encount	ered (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 = outgoing echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	IAM → INVITE				
			← 100 Trying		
	ACM	←	← 181 Call is Being forwarded		
	Apply post test routine				

TP number	TP_203_017	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 7.2.4/2 AND NOT PICS 7.2.1/18 AND PICS 7.2.1/9			
Test Purpose name	183 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	183 Session Progress respon	nse, an ACM is sent and the	
	Backward call indicator is s	set to the following values:		
	 Charge indicator = charge 	arge (10)		
	 Called party's status ir 	ndicator = no indication (00)		
		y indicator = no indication (00)	
	 End-to-end method in 	dicator = no end-to-end metho	od available (00)	
	 Interworking indicator 	= interworking encountered (1	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 = outgoing echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values		•		
Comments				
Message flows	Mg MGCF ISUP			
	IAM -	→	INVITE	
		←	100 Trying	
	ACM ←	- ←	183 Session Progress	
		Apply post test routir	- 1e	

TP number	TP_203_018	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 7.2.4/2 AND PICS 7.2.1/18					
Test Purpose name	180 received, coding of	of Backward call indicator in	ACM TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.					
	Ensure that on receipt	of a 180 Ringing response,	an ACM is sent and the Backward call			
	indicator is set to the fo	ollowing values:				
	 Charge indicator = 	= charge (10)				
	 Called party's stat 	us indicator = subscriber fre	ee (01)			
	 Called party's cate 	egory indicator = no indicati	on (00)			
	 End-to-end methor 	od indicator = no end-to-end	method available (00)			
	 Interworking indicate 	 Interworking indicator = no interworking encountered (0) 				
	 End-to-end information indicator = no end-to-end information available (0) 					
	 ISDN user part/BI 	CC indicator = ISDN user p	part used all the way (1)			
	 ISDN access indic 	cator = terminating access	ISDN (1)			
	 Echo control devid 	ce indicator = outgoing echo	control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	IAM → INVITE					
		← 100 Trying				
	ACM	←	← 180 Ringing			
		Apply post test				

TP number	TP_203_019	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.4/2 AND PICS 7.2.1/18				
Test Purpose name	181 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
	Ensure that on receipt of	a 181 Call is Being forwards	ed response, an ACM is sent and the		
	Backward call indicator is	s set to the following values:			
	 Charge indicator = c 	harge (10)			
	 Called party's status 	indicator = no indication (00)		
	 Called party's categor 	ory indicator = no indication ((00)		
	 End-to-end method i 	ndicator = no end-to-end me	ethod 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 = outgoing echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	IAM	→	INVITE		
		•	100 Trying		
	ACM	(
		Apply post test ro			

TP number	TP_203_020	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 7.2.4/2 AND PICS 7.2.1/18 AND PICS 7.2.1/9					
Test Purpose name	183 received, coding	183 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	t of a 183 Session Progress	response, an ACM is sent and the			
	Backward call indicate	or is set to the following valu	es:			
	 Charge indicator 	= charge (10)				
	 Called party's sta 	itus indicator = no indication	(00)			
	 Called party's cat 	tegory indicator = no indication	on (00)			
	 End-to-end method 	od indicator = no end-to-end	method available (00)			
	 Interworking indic 	 Interworking indicator = no interworking encountered (0) 				
	 End-to-end information indicator = no end-to-end information available (0) 					
	 ISDN user part/B 	 ISDN user part/BICC indicator = ISDN user part used all the way (1) 				
	 ISDN access indi 	icator = terminating access	ISDN (1)			
	 Echo control devi 	ice indicator = outgoing echo	control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	IAM	_				
			← 100 Trying			
	ACM	←	← 183 Session Progress			
		Apply post test	routine			

TP_203_021	Reference	7.2.3.2.5.1		
ISUP-SIP/Basic call	ISUP-SIP/Basic call/Sending_of_ACM/			
180 received, codin	180 received, coding of Backward call indicator in ACM HLC "Facsimile Group 2/3".			
Compatibility= Facs response, an ACM i	simile Group 2/3 received. It is sent and the Backward of a charge (10) status indicator = subscribe category indicator = no indicator indicator = no end-to-dicator = interworking encommation indicator = no end/BICC indicator = ISDN us indicator = terminating acceleration indicator = outgoing	Ensure that on receipt of a 180 Ringing call indicator is set to the following values: r free (01) cation (00) end method available (00) untered (1) -to-end information available (0) er part not used all the way (0) es non-ISDN (0) echo control device not included (0)		
1	, ,	1		
Mg	Mg MGCF ISUP			
IAM ACM	→ ←	→ INVITE ← 100 Trying ← 180 Ringing		
	ISUP-SIP/Basic cal 180 received, codin IAM with Transmiss Compatibility= Facs response, an ACM Charge indicate Called party's of End-to-end me Interworking ind ISDN user part ISDN access ir Echo control de IAM: Transmissio High Layer C	ISUP-SIP/Basic call/Sending_of_ACM/ 180 received, coding of Backward call indicator IAM with Transmission Medium Requirement is Compatibility= Facsimile Group 2/3 received. Expressionse, an ACM is sent and the Backward of the Charge indicator = charge (10) Called party's status indicator = subscribe Called party's category indicator = no indicator = no end-to-end indicator = no end-to-end interworking indicator = interworking encored interworking indicator = interworking encored is ISDN user part/BICC indicator = ISDN user ISDN access indicator = terminating access indicator = terminating access indicator = coutgoing IAM: Transmission Medium Requirement indicator High Layer Compatibility= Facsimile Growth Mg Mg MGCF		

TP number	TD 202 022	Reference	700054		
	TP_203_022		7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria					
Test Purpose name	181 received, co	181 received, coding of Backward call indicator in ACM HLC "Facsimile Group 2/3".			
Test Purpose	IAM with Transm	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer			
	Compatibility= Fa	acsimile Group 2/3 received. E	Insure that on receipt of a 181 Call is Being		
	forwarded respon	nse, an ACM is sent and the E	sackward call indicator is set to the following		
	values:		•		
	 Charge indic 	ator = charge (10)			
		s status indicator = no indicat	ion (00)		
		s category indicator = no indic			
		method indicator = no end-to-			
			• •		
		 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)			
		s indicator = terminating acces	• •		
			echo control device not included (0)		
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz				
	High Laye	High Layer Compatibility= Facsimile Group 2/3			
SIP Parameter values					
Comments					
Message flows	Mg	Mg MGCF ISUP			
	IAM	→	→ INVITE		
			← 100 Trying		
	ACM	←	← 181 Call is Being forwarded		
	,				
		Apply post test routine			

TP number	TP_203_023	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 7.2.1/9			
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, 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		Requirement indicator=3,	ntrol device not included (0)	
	High Layer Compatibility	•		
SIP Parameter values		· · · · · · · · · · · · · · · · · · ·		
Comments				
Message flows	Mg	MGCF	ISUP	
	ACM ←	→ ← ←	INVITE 100 Trying 183 Session Progress	
		Apply post test routing	•	

		T	T		
TP number	TP_203_024	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 1 into Backward call indicator in ACM				
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 1 is mapped into the	Backward call indicator p	present in the ACM:		
	ISDN User Part indicator				
	 ISDN User Part not used: 	all the way (0)			
ISUP Parameter values	ACM: ISDN User Part indicate	or			
	ISDN User Part no	ISDN User Part not used all the way			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments	Progress Information: 'Call is not end-to-end ISDN: further call progress information may				
	be available in-band'				
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
	Apply post test routine				

TP number	TP_203_025	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into Ba	ackward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 2 is mapped into the Backward call indicator present in the ACM: ISDN User Part indicator				
	ISDN User Part used all	the way (1)			
	ISDN access indicator	tilo way (1)			
	Terminating access nor	-ISDN (0)			
ISUP Parameter values	ACM: ISDN User Part indicate				
	ISDN User Part used all the way				
	ISDN access indicator				
	Terminating access non-ISDN				
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
		Apply post test routine	9		

TD	TD 000 000	Deference	7,00054			
TP number	TP_203_026	Reference	7.2.3.2.5.1			
TSS reference		ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name		Mapping of PSTN XML ProgressIndicator 7 in 180 into Backward call indicator in ACM				
Test Purpose		Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 7 is mapped into the Backward call indicator present in the ACM:					
	ISDN User Part indicator					
		r Part used all the way (1)				
	ISDN access indi					
		ng access ISDN (1)				
	Interworking indic					
		orking encountered (0)				
ISUP Parameter values	ACM: ISDN Use					
		User Part used all the way				
		ess indicator				
	Terminating access non-ISDN					
		Interworking indicator				
		erworking encountered				
SIP Parameter values	180:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndig					
	ProgressC					
	ProgressDescription>0000111<					
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	Mg MGCF ISUP					
	IAM	→	→ INVITE			
		_	← 100 Trying			
	ACM ← 180 Ringing					
		Apply post test	t routine			

TP number	TP_203_027	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 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 8 is mapped into the	Optional backward call in	dicator present in the ACM:		
	Optional backward call indi	cators			
	In-band information indi	cator			
	 in-band information 	or an appropriate patter	n is now available		
ISUP Parameter values	ACM: Optional backward call	ndicators			
	In-band information	indicator			
	in-band informat	on or an appropriate patt	ern is now available"		
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	Mg MGCF ISUP				
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
		Apply post test routing	ne		

TP number	TP 203 028	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending of	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9					
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 183 into B	ackward call indicator in ACM			
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is					
	present, the value 1 is mapped	into the Backward call inc	licator present in the ACM:			
	ISDN User Part indicator		•			
	 ISDN User Part not used a 	Ill the way (0)				
ISUP Parameter values	ACM: ISDN User Part indicate	r				
	ISDN User Part not	used all the way				
SIP Parameter values	183: P-Early-Media: sendonly					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments	•	ot end-to-end ISDN: furthe	er call progress information may			
	be available in-band'					
Message flows	Mg MGCF ISUP					
	IAM → INVITE					
		←	100 Trying			
	ACM ←	←	183 Session Progress			
		Apply post test routine				

TP number	TP_203_029	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 183 into E	Backward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is				
	present, the value 2 is mapped into the Backward call indicator present in the ACM:				
	ISDN User Part indicator				
	 ISDN User Part used a 	ll the way (1)			
	ISDN access indicator				
	 Terminating access nor 	n-ISDN (0)			
ISUP Parameter values	ACM: ISDN User Part indicate	or			
	ISDN User Part used all the way				
	ISDN access indicator				
	Terminating access non-ISDN				
SIP Parameter values	183: P-Early-Media: sendonly				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	(183 Session Progress		
		Apply post test routing	ne		

TP number	TP_203_030	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 7 in 183 into Backward call indicator in ACM					
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is					
	present, the value 7 is mapped into the Backward call indicator present in the ACM:					
	ISDN User Part indicate	or				
		used all the way (1)				
	ISDN access indicator					
	Terminating according	ess ISDN (1)				
	Interworking indicator					
	no interworking (
ISUP Parameter values	ACM: ISDN User Part					
	ISDN User Part used all the way					
	ISDN access inc					
		Terminating access non-ISDN				
	Interworking indicator					
SIP Parameter values	no interworking encountered					
SIP Parameter values	183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"?					
	PSTN	coding= uti-6 ?>				
	ProgressIndicator					
	ProgressOctet4					
		scription>0000111<				
Comments		Progress Information: value not specified. Meaning 'terminating user is ISDN'				
Message flows	Mq	MGCF	ISUP			
	IAM	→	→ INVITE			
			← 100 Trying			
	ACM	←	← 183 Session Progress			
		Apply post test				

TP number	TP_203_031	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 in 183 into Backward call indicator in ACM				
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is				
	present, the value 8 is mapped	I into the Optional backwa	rd call indicator present in the		
	ACM:				
	Optional backward call indi	cators			
	In-band information ind	icator			
	 in-band information 	n or an appropriate pattern	is now available		
ISUP Parameter values	ACM: Optional backward call indicators				
	In-band information indicator				
	in-band information or an appropriate pattern is now available"				
SIP Parameter values	183: P-Early-Media: sendonly				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	Mg MGCF ISUP				
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	183 Session Progress		
		Apply post test routing	ne		

TP number	TP_203_032	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/			
Selection criteria	PICS 7.2.1/9				
Test Purpose name	Mapping of P-Early-Media hea	der in 183 into Optional b	ackward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183 Session Progress and 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	183: P-Early-Media: sendonly				
Comments	Progress Information 'In-band	nformation or an appropr	iate pattern is now available'		
Message flows	Mg MGCF ISUP				
	IAM → ACM ←	→ ← ← Apply post test routii	INVITE 100 Trying 183 Session Progress ne		

TP number	TP_203_033	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/			
Selection criteria	PICS 7.2.1/9				
Test Purpose name	Mapping of P-Early-Media head	der in 181 into Optional ba	ackward 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	183: P-Early-Media: sendonly				
Comments	Progress Information 'In-band i	nformation or an appropri	ate pattern is now available'		
Message flows	Mg MGCF ISUP				
	IAM → ACM ←	→ ← ← Apply post test routin	INVITE 100 Trying 181 Call is Being Forwarded ne		

TP number	TP_203_024	Reference	7.2.3.2.5.4			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 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 Parameter containing the Progress					
	Indicator value 1 in the AC	Indicator value 1 in the ACM:				
	Access Transport Parame	eter				
	Progress Indicator					
		cription='0000001'				
ISUP Parameter values	•	ACM: Access Transport				
	Progress Indica					
	Progress De	escription='0000001'				
SIP Parameter values	180:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
		ption>000001<				
Comments		ll is not end-to-end ISDN: fu	rther call progress information may			
	be available in-band'					
Message flows	Mg	MGCF	ISUP			
	IAM -	→	NVITE			
		*	• 100 Trying			
	ACM	÷	 180 Ringing 			
	Apply post test routine					

TP number	TP_203_025	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 2 in 180 into the Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 2 is mapped into the	Access Transport Parame	eter containing the Progress		
	Indicator value 2 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description='0 	000010'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri	otion='0000010'			
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	Mg MGCF ISUP				
	IAM →	→	INVITE		
		-	100 Trying		
	ACM ←	-	180 Ringing		
		Apply post test routin	e		

TP number	TP 203 026	Reference	7.2.3.2.5.4		
TSS reference		ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	PSTN XML ProgressIndi	cator 7 in 180 is not map	ped into the Access Transport Parameter		
Test Purpose	Ensure that on receipt of	a 180 Ringing and the F	STN XML ProgressIndicator is present,		
	the value 7 is not mappe	d into the Access Transp	ort Parameter in the ACM		
ISUP Parameter values	ACM: No Access Transp	ACM: No Access Transport Parameter present			
SIP Parameter values	180:				
	xml version="1.0" enco</th <th>oding="utf-8"?></th> <th></th>	oding="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDesc	ription> 0000111 <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→	→ INVITE		
			← 100 Trying		
	ACM	←	← 180 Ringing		
	Apply post test routine				

TP number	TP_203_027	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 180 into the	Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
	the value 8 is mapped into the Access Transport Parameter containing the Progress				
	Indicator value 8 in the ACM:				
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description 	on='0001000'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Description='0001000'				
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	Mg	MGCF	ISUP		
	IAM →	→ IN	VITE		
		← 10	0 Trying		
	ACM ←	← 18	0 Ringing		
		Apply post test routine			

TP number	TP_203_028	Reference	7.2.3.2.5.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9			
Test Purpose name	Mapping of PSTN XML ProgressIndicator 1 in 183 into the Access Transport Parameter			
Test Purpose	Ensure that on receipt of a 183 Session Progress and the P-Early-Media header and PSTN			
	XML ProgressIndicator is present, the value 1 is mapped into the Access Transport			
	Parameter containing the Pro-	gress Indicator value 1 in t	the ACM:	
	Access Transport Parameter			
	Progress Indicator			
	 Progress Description= 	0000001'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
		iption='0000001'		
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
_	ProgressDescriptio			
Comments		not end-to-end ISDN: furth	ner call progress information may	
	be available in-band'			
Message flows	Mg	MGCF	ISUP	
	IAM →	→	INVITE	
		←	100 Trying	
	ACM ←	←	183 Session Progress	
		Apply post test routi	ne	

TP number	TP_203_029	Reference	7.2.3.2.5.4				
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/						
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/	PICS 7.2.1/5 AND PICS 7.2.1/9					
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 183 into th	ne Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 183	Session Progress and the	e P-Early-Media header and PSTN				
		XML ProgressIndicator is present, the value 2 is mapped into the Access Transport					
	Parameter containing the Prog	ress Indicator value 2 in th	ne ACM:				
	Access Transport Parameter						
	Progress Indicator						
	Progress Description='0000010'						
ISUP Parameter values	ACM: Access Transport						
	Progress Indicator						
	Progress Descri	ption='0000010'					
SIP Parameter values	183: P-Early-Media: sendon						
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription	1>000010<					
Comments	Progress Information: 'Destination address is non-ISDN'						
Message flows	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
		←	100 Trying				
	ACM ←	←	183 Session Progress				
		Apply post test routing	ie				

TP number	TP_203_030	Reference	7.2.3.2.5.4			
TSS reference	ISUP-SIP/Basic call/Sending_o	f_ACM/				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9					
Test Purpose name	PSTN XML ProgressIndicator 7	in 183 is not mapped into	the Access Transport Parameter			
Test Purpose	Ensure that on receipt of a 183 present, the value 7 is not map		PSTN XML ProgressIndicator is port Parameter in the ACM			
ISUP Parameter values	ACM: No Access Transport Pa	rameter present				
SIP Parameter values	183: P-Early-Media: sendonly					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000111<					
Comments	Progress Information: value not	specified. Meaning 'termir	nating user is ISDN'			
Message flows	Mg	MGCF	ISUP			
	IAM →	→	NVITE			
		← ·	100 Trying			
	ACM ←	← ·	183 Session Progress			
		Apply post test routine	•			

TP number	TP_203_031	Reference	7.2.3.2.5.4				
TSS reference	ISUP-SIP/Basic call/Sending_	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/	PICS 7.2.1/5 AND PICS 7.2.1/9					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 8 in 183 into t	he Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 183	3 Session Progress and th	ne P-Early-Media header and PSTN				
	XML ProgressIndicator is pres						
	Parameter containing the Prog	gress Indicator value 8 in t	the ACM:				
	Access Transport Parameter						
	Progress Indicator						
	Progress Description='0001000'						
ISUP Parameter values	ACM: Access Transport						
	Progress Indicator						
	Progress Descr	iption='0001000'					
SIP Parameter values	183: P-Early-Media: sendon	ly					
	xml version="1.0" encoding="utf-8"?						
	PSTN						
	ProgressIndicator	ProgressIndicator					
	ProgressOctet4						
	ProgressDescription	n> 0001000 <					
Comments	Progress Information 'In-band information or an appropriate pattern is now available'						
Message flows	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
		←	100 Trying				
	ACM ←	←	183 Session Progress				
		Apply post test routi					

6.1.2.4 Sending of the Call Progress message (CPG)

TP number	TP_204_001	Re	ference	7.2.3.2.6	6		
TSS reference	ISUP-SIP/Basic call/Send	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria							
Test Purpose name	A CPG is sent when a 180	0 is recei	ved and a ACM was	sent before			
Test Purpose	Ensure that on receipt of	a 180 Rir	nging a CPG messag	e is sent when	an ACM was sent		
	before						
ISUP Parameter values	ACM: BCi Called party sta	atus=no i	indication				
	CPG: Event indication=Al	LERTING)				
SIP Parameter values							
Comments							
Message flows	Mg		MGCF		ISUP		
	IAM -	→ T i/v	v1 started				
	ACM	← T i/v	v1 expired →	INVITE			
			←	100 Trying			
	CPG	←	←	180 Ringing			
		A	Apply post test routi	ne			

TP number	TP_204_002		Reference		7.2.3.2.6	
TSS reference	ISUP-SIP/Basic of	call/Sending_c	f_CPG/		•	
Selection criteria	PICS 7.2.1/9					
Test Purpose name	181 received, CP	G 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 indic	ation=progres	SS			
SIP Parameter values	181: P-Early-M	edia: sendonl	у			
Comments						
Message flows	Mg		MGCF		ISUP	
	IAM	→		→	INVITE	
	ACM	←		←	180 Ringing	
	CPG	←		←	181 Call is Being Forwarded	
	early media early media					
	-	Apply post test routine				

TP number	TP_204_003	Reference	7.2.3.2.6				
TSS reference	ISUP-SIP/Basic call/Sending_c	SUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 7.2.1/9						
Test Purpose name	Early media is not authorized if	no P-Early-Media header is	s present in the 180				
Test Purpose	Ensure that on receipt of a 180 Ringing a CPG is sent. If the 180 Ringing does not contain a P-Early-Media header authorizing early media, the SUT initiates sending of awaiting answer indication						
ISUP Parameter values							
SIP Parameter values	180: no P-Early-Media heade	er present					
Comments		•					
Message flows	Mg	MGCF	ISUP				
	IAM → ¬	i/w1 started					
	CPG ←	← 1	NVITE 80 Ringing				
	ringing tone Apply post test routine						

TP number	TP_204_004		Reference		7.2.3.2.0	6	
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 7.2.1/9	PICS 7.2.1/9					
Test Purpose name	Early media is not authorized if P-Early-Media header does not authorize early media in the 180						
Test Purpose			80 Ringing a CPG i thorizing early med				
ISUP Parameter values							
SIP Parameter values	180: P-Early-Me	dia: inactiv	/e				
Comments							
Message flows	Mg IAM	→	MGCF T i/w1 started			ISUP	
	ACM	←	T i/w1 expired	→	INVITE		
	CPG	←	•	←	180 Ringing		
		ringing to	ne				
	Apply post test routine						

TP number	TP_204_005	Reference	7.2.3.2.6				
TSS reference	ISUP-SIP/Basic call/Send	SUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 7.2.1/9						
Test Purpose name	Early media is authorized	if P-Early-Media header authoriz	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: sei	ndonly					
Comments							
Message flows	Mg IAM	MGCF → T i/w1 started	ISUP				
			NVITE 80 Ringing <i>early media</i>				
		Apply post test routine					

TP number	TP_204_006		Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Send	ISUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 7.2.1/14						
Test Purpose name	The SUT has the knowled answer indication is not go			a PSTN network, the awaiting			
Test Purpose	Ensure that the SUT does not generate the awaiting answer indication if it has the local knowledge that the call is transited to a PSTN network and the early media is not authorized						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM -	→ T	i/w1 started				
	ACM •	(- T	i/w1 expired →	INVITE 100 Trying			
	CPG early media	€	+	180 Ringing early media			
			Apply post test routing	ne			

TP number	TP_204_007	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sen	ISUP-SIP/Basic call/Sending of CPG/				
Selection criteria	PICS 7.2.1/9					
Test Purpose name	Early media is authorize	d if P-Early-Media header auth	norize early media in the 183			
Test Purpose		f a 183 Session Progress a CF				
			early media, the SUT terminates			
	sending of awaiting answ	ver indication and connects th	rough the early media in backward			
	direction					
ISUP Parameter values						
SIP Parameter values	183: P-Early-Media: se	endonly				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	→ →	INVITE			
	ACM	← ←	180 Ringing			
	CPG	← ←	183 Session Progress			
	early media early media					
		Apply post test rou	tine			

TP number	TP_204_008	Reference		7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Se	ISUP-SIP/Basic call/Sending of CPG/					
Selection criteria	PICS 7.2.1/9						
Test Purpose name	Early media is authorize	ed if P-Early-Media head	ler 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: s	sendonly					
Comments		-					
Message flows	Mg	MGCF		ISUP			
_	IAM	→	→	INVITE			
	ACM	←	←	180 Ringing			
	CPG	←	←	181 Call is Being Forwarded			
	early media early media						
		Apply post te	st routi	ne			

	TP_204_009		Reference		7.2.3.2.6		
TSS reference	ISUP-SIP/Basic ca	SUP-SIP/Basic call/Sending_of_CPG/					
Selection criteria	PICS 7.2.1/9						
Test Purpose name	The SUT change received in 180	the authorizat	ion of early media as	indicat	ted in the P-Early-Media		
Test Purpose	through early med	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		edia: inactive edia: sendonly	/				
Comments							
Message flows	IAM ACM CPG early m	→ ← ringing tone ← nedia	MGCF Apply post test ro	- 18 - 18	ISUP VITE I3 Session Progress I0 Ringing early media		

TP number	TP_204_010	Reference	7.2.3.2.6	3		
TSS reference	ISUP-SIP/Basic	call/Sending_of_CPG/				
Selection criteria	PICS 7.2.1/9					
Test Purpose name	The SUT change received in 180	The SUT change the authorization of early media as indicated in the P-Early-Media received in 180				
Test Purpose	authorization of	Ensure that the SUT initiates the sending of awaiting answer indication and removes authorization of early media if the P-Early-Media header indicates no authorization of early media received in the 180 Ringing and early media was authorized before				
ISUP Parameter values			•			
SIP Parameter values		Media: sendonly Media: inactive				
Comments						
Message flows	IAM ACM early CPG	MGCF → ← media ← ringing tone Apply pos	→ INVITE ← 183 Session F early med. ← 180 Ringing	•		

TP 204 011	Reference	7.2.3.2.6.1			
		7 12.0.2.011			
	<u>v</u> = =				
Progress, a CPG is	Progress, a CPG is sent and an Access Transport Parameter is present containing a				
Progress Indicator					
CPG: Access Tra	CPG: Access Transport				
Progres	Progress Indicator				
Prog					
183: P-Early-Me	dia: sendonly				
xml version="1.0</th <th>0" encoding="utf-8"?></th> <th></th>	0" encoding="utf-8"?>				
PSTN	•				
ProgressIndica	tor				
	·				
Mg	MGCF	ISUP			
IAM	→	→ INVITE			
ACM	←	← 180 Ringing			
_	←	← 183 Session Progress			
0. 0	=	- 100 000000 1 10g.000			
	PICS 7.2.1/5 AND Mapping of PSTN Ensure that on rec Progress, a CPG i Progress Indicator CPG: Access Tra Progres Prog 183: P-Early-Me xml version="1.0" PSTN ProgressOc Progress Mg</th <th>ISUP-SIP/Basic call/Sending_of_CPG/ PICS 7.2.1/5 AND PICS 7.2.1/9 Mapping of PSTN XML ProgressIndicator 1 in 18 Ensure that on receipt of a PSTN XML ProgressI Progress, a CPG is sent and an Access Transpo Progress Indicator #1 CPG: Access Transport Progress Indicator Progress Description='0000001' 183: P-Early-Media: sendonly <?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressOctet4 ProgressDescription>0000001< Mg MGCF IAM ACM ★ MGCF</th>	ISUP-SIP/Basic call/Sending_of_CPG/ PICS 7.2.1/5 AND PICS 7.2.1/9 Mapping of PSTN XML ProgressIndicator 1 in 18 Ensure that on receipt of a PSTN XML ProgressI Progress, a CPG is sent and an Access Transpo Progress Indicator #1 CPG: Access Transport Progress Indicator Progress Description='0000001' 183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressOctet4 ProgressDescription>0000001< Mg MGCF IAM ACM ★ MGCF			

TP number	TP_204_012	Reference	7.2.3.2.6.1	
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/		
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9	9		
Test Purpose name	Mapping of PSTN XML ProgressIndicator 2 in 183 into ATP in the CPG			
Test Purpose	Ensure that on receipt of a PST			
	Progress, a CPG is sent and a	n Access Transport Parameter	r is present containing a	
	Progress Indicator #2			
ISUP Parameter values	CPG: Access Transport			
	Progress Indicator			
	Progress Description='0000010'			
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000010<			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	→ INV	ITE	
	ACM ←	← 180	Ringing	
	CPG ←	← 183	Session Progress	
		Apply post test routine	-	

TP number	TP 204 013	Reference	7.2.3.2.6			
			1.2.3.2.0			
TSS reference	ISUP-SIP/Basic call/Sending	-				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1	/9				
Test Purpose name	Mapping of PSTN XML Progr	Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG				
Test Purpose	Ensure that on receipt of a PS	STN XML ProgressIndicate	or value 4 in a 183 Session			
	Progress, 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: P-Early-Media: sendor	nly				
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN	PSTN				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000100<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
	ACM ←	←	180 Ringing			
	CPG ←	÷	183 Session Progress			
		=				
		Apply post test routine				

TP number	TP_204_014	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_c	f_CPG/			
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9	9			
Test Purpose name	No mapping of PSTN XML ProgressIndicator 7 in 183 into ATP in the CPG				
Test Purpose		Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 183 Session			
	Progress, a CPG is sent and no	Progress, a CPG is sent and no Access Transport Parameter is present containing a			
	Progress Indicator #7				
ISUP Parameter values	CPG: Access Transport not present				
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding=</th <th>"utf-8"?></th> <th></th>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	CPG ←	←	183 Session Progress		
		Apply post test routing	-		

TP number	TP_204_015	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending_c	f_CPG/				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9	9				
Test Purpose name	Mapping of PSTN XML Progres	Mapping of PSTN XML ProgressIndicator 8 in 183 into Event information in the CPG				
Test Purpose	Ensure that on receipt of a PST	Ensure that on receipt of a PSTN XML ProgressIndicator value 8 in a 183 Session				
	Progress, a CPG is sent and E	vent information parameter is	s set to 'In-band information or			
	appropriate pattern is now avai					
ISUP Parameter values	CPG: Event information= In-band information or appropriate pattern is now available					
SIP Parameter values	183: P-Early-Media: sendonly					
	xml version="1.0" encoding=</th <th colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0001000<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→ IN	VITE			
	ACM ←	← 18	0 Ringing			
	CPG ←	← 18	3 Session Progress			
		Apply post test routine	-			

TP number	TP_204_016	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9	9			
Test Purpose name	Mapping of PSTN XML ProgressIndicator 7 in 183 into ATP in the CPG				
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator	value 7 in a 183 Session		
	Progress, a CPG is sent and a				
	Progress Indicator #4 when in	the 180 Ringing received b	pefore a PSTN XML		
	ProgressIndicator value 1 or 2	was present			
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Description='0000100'				
SIP Parameter values	180: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000001<			
	or				
	ProgressDescription	>0000010<			
	183: P-Early-Media: sendonl	у			
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000111<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →		INVITE		
	ACM ←	←	180 Ringing		
	CPG ←		183 Session Progress		
		Apply post test routing	е		

TP number	TP 204 017	Reference	7.2.3.2.6.1		
TSS reference			1.2.0.2.0.1		
	ISUP-SIP/Basic call/Se				
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9				
Test Purpose name	Mapping of PSTN XML	ProgressIndicator 1 in 180 int	to ATP in the CPG		
Test Purpose	Ensure that on receipt	of a PSTN XML ProgressIndic	ator value 1 in a 180 Ringing, a CPG		
_	is sent and an Access	Transport Parameter is preser	nt containing a Progress Indicator #1		
ISUP Parameter values	CPG: Access Transport				
	Progress Inc				
	Progress Description='0000001'				
SIP Parameter values	180:				
on randinotor values	xml version="1.0" er</th <th>acading="uff 9"2></th> <th></th>	acading="uff 9"2>			
	PSTN	icoung= un-o !>			
	_				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDe	scription>000001<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→ T i/w1 started			
	ACM	← T i/w1 expired →	NVITE		
	CPG	← ←			
	CFG				
		Apply post test ro	utine		

TP number	TP_204_018	Reference	7.2.3.2.6.1		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_CPG/	•		
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5			
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into ATP ir	n the CPG		
Test Purpose		TN XML ProgressIndicator values			
IOUD D		ort Parameter is present contain	ling a Progress indicator #2		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Description='0000010'				
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> 0000010 <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	T i/w1 started			
	ACM +	T i/w1 expired → INV	ITE		
	CPG ←	· · · · · · · · · · · · · · · · · · ·	Ringing		
		Apply post test routine			

TP number	TP_204_019	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 4 in 180 into ATP in the CPG				
Test Purpose	Ensure that on receipt of a PST	ΓΝ XML ProgressIndicator valu	ie 4 in a 180 Ringing a CPG		
	is sent and an Access Transpo	rt Parameter is present contain	ning a Progress Indicator #4		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Description='0000100'				
SIP Parameter values	180:				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000100<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	Γi/w1 started			
	ACM ←	Γi/w1 expired → INVI	TE		
	CPG ←	← 180	Ringing		
		Apply post test routine			

Test Purpose Ensure that or Progress, a C Progress Indice ISUP Parameter values SIP Parameter values 183: xml version PSTN ProgressIr Progre</th <th>f PSTN XML F n receipt of a F PG is sent and cator #7 Transport no ="1.0" encodir</th> <th>ProgressIndicator 7 PSTN XML Progres In no Access Transp</th> <th>7 in 183 into ATP in the CPG essIndicator value 7 in a 183 Session sport Parameter is present containing a</th>	f PSTN XML F n receipt of a F PG is sent and cator #7 Transport no ="1.0" encodir	ProgressIndicator 7 PSTN XML Progres In no Access Transp	7 in 183 into ATP in the CPG essIndicator value 7 in a 183 Session sport Parameter is present containing a
Test Purpose name Test Purpose Test Purpose Ensure that or Progress, a C Progress Indice ISUP Parameter values SIP Parameter values 183: xml version PSTN ProgressIr Progre Pro Comments</th <th>n receipt of a FPG is sent and attention #7 Transport no ="1.0" encodir</th> <th>PSTN XML Progres Ino Access Transp t present</th> <th>essIndicator value 7 in a 183 Session</th>	n receipt of a FPG is sent and attention #7 Transport no ="1.0" encodir	PSTN XML Progres Ino Access Transp t present	essIndicator value 7 in a 183 Session
Test Purpose Ensure that or Progress, a C Progress Indic CPG: Access SIP Parameter values SIP Parameter values 183: xml version PSTN ProgressIr Progres ProcessIr Progre</th <th>n receipt of a FPG is sent and attention #7 Transport no ="1.0" encodir</th> <th>PSTN XML Progres Ino Access Transp t present</th> <th>essIndicator value 7 in a 183 Session</th>	n receipt of a FPG is sent and attention #7 Transport no ="1.0" encodir	PSTN XML Progres Ino Access Transp t present	essIndicator value 7 in a 183 Session
Progress, a C Progress Indic ISUP Parameter values SIP Parameter values 183: xml version PSTN ProgressIr Progre Pro Comments</th <th>PG is sent and actor #7 Transport no ="1.0" encodir</th> <th>d no Access Transp</th> <th></th>	PG is sent and actor #7 Transport no ="1.0" encodir	d no Access Transp	
SIP Parameter values 183: xml version PSTN ProgressIr Progre Pro Comments</th <th>="1.0" encodir</th> <th></th> <th></th>	="1.0" encodir		
xml version PSTN ProgressIr Progre Pro Comments</th <th>dicator</th> <th>ng="utf-8"?></th> <th></th>	dicator	ng="utf-8"?>	
	ssOctet4 gressDescript	ion> 0000111 <	
Message flows Mg			
IAM	→	MGCF T i/w1 started	ISUP
ACM CPG	+	T i/w1 expired	→ INVITE← 180 Ringing

TD	TD 004 004	D. C.	70000			
TP number	TP_204_021	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 183 into Event	information in the CPG			
Test Purpose		TN XML ProgressIndicator valu				
	Progress, a CPG is sent and E	vent information parameter is s	set to 'In-band information or			
	appropriate pattern is now ava	ilable'				
ISUP Parameter values	CPG: Event information= In-band information or appropriate pattern is now available					
SIP Parameter values	183:					
	xml version="1.0" encoding=</th <th colspan="5"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n> 0001000 <				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	T i/w1 started				
	ACM ←	T i/w1 expired → INVI	TE			
	CPG ←	•	Ringing			
		Apply post test routine	3 3			

TP number	TP_204_022	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 7.2.1/5 AND PICS 7.2.1/9				
Test Purpose name	Mapping of PSTN XN	Mapping of PSTN XML ProgressIndicator 7 in 180 into ATP in the CPG			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 180 Ringing, a CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 when in the 180 Ringing received before a PSTN XML ProgressIndicator value 1 or 2 was present				
ISUP Parameter values	CPG: Access Transport Progress Indicator				
SIP Parameter values	Progress Description='0000100' 183: P-Early-Media: sendonly PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001< or ProgressDescription>0000010< 180: PSTN ProgressIndicator ProgressOctet4 ProgressOctet4 ProgressDescription>0000111<				
Comments					
Message flows	Mg IAM ACM CPG	MGCF	ISUP → INVITE ← 183 Session Progress ← 180 Ringing routine		

TP number	TP_204_023	Reference	7.2.3.2.7		
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/				
Selection criteria	PICS 7.2.1/9				
Test Purpose name	Mapping of P-Early-Media header into Event information parameter in CPG				
Test Purpose	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present				
	authorizing early media, a	authorizing early media, a CPG is sent. The Event information parameter is set to 'In-band			
	information or appropriate pattern is now available'				
ISUP Parameter values	CPG: Event information= In-band information or appropriate pattern is now available				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM -	T i/w1 started			
	ACM ←	T i/w1 expired	INVITE		
	CPG €	←	183 Session Progress		
	Apply post test routine				

TP number	TP_204_024	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	NOT PICS 7.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received. Ensure that on receipt of a 180 Ringing response, a CPG is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = outgoing echo control device included (1)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz ACM: Backward call indicator			
	Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	T i/w1 started		
	ACM ←	T i/w1 expired → IN	NVITE	
	CPG ←	-	80 Ringing	
	Apply post test routine			

TP number	TP 204 025	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 7.2.4/2 AND NOT PICS 7.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 180 Ringing response, an CPG is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = outgoing echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted ACM: Backward call indicator Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	Mg IAM →	MGCF T i/w1 started	ISUP	
	ACM ←	T i/w1 expired → INV ← 180 Apply post test routine	/ITE) Ringing	

TP number	TP_204_026	Reference	7.2.3.2.7.4		
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 7.2.4/2 AND PI	PICS 7.2.4/2 AND PICS 7.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 180 Ringing response, an CPG is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = no interworking encountered (0) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part used all the way (1) ISDN access indicator = terminating access ISDN (1) Echo control device indicator = outgoing 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 par	ty's status indicator = no	ndication		
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→ T i/w1 started	.00.		
	ACM	← T i/w1 expired	→ INVITE		
	CPG	←	← 180 Ringing		
	Apply post test routine				

TP number	TP_204_027	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	<u> </u>			
Test Purpose name	180 received, coding of Backward call indicator in CPG HLC "Facsimile Group 2/3"			
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 180 Ringing response, a CPG is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = outgoing 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	Mg IAM →	MGCF T i/w1 started	ISUP	
	ACM ← CPG ←	,	INVITE 180 Ringing e	

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/Se	ending_of_ANM/			
Selection criteria					
Test Purpose name	Sending of ANM when	200 OK INVITE was received			
Test Purpose		Ensure that upon receipt of the first 200 OK (INVITE), if the Address Complete Message (ACM) has already been sent, the SUT sends the Answer Message (ANM)			
ISUP Parameter values			5 \ ,		
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→	→ INVITE		
			← 100 Trying		
	ACM	←	← 180 Ringing		
	ANM	←	← 200 OK (INVITE)		
			→ ACK		
		Apply post test ro	outine		

TP number	TP_205_002	Reference	7.2.3.2.8	
TSS reference	ISUP-SIP/Basic call/Sending_	of_ANM/		
Selection criteria	NOT PICS 7.2.1/18 AND PICS	5 7.2.1/9		
Test Purpose name	200 OK received, coding of Ba	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 = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0)			
	Echo control device indicator = Incoming echo control device included (1)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz ACM: Backward call indicator Called party's status indicator = no indication			
SIP Parameter values	183: P-Early-Media: sendonly			
Comments	•	•		
Message flows	Mg IAM →	MGCF T i/w1 started	ISUP	
	ACM ←	T i/w1 expired →	INVITE	
	CPG ←	*	183 Session Progress	
	ANM ←	← → Apply post test routing	200 OK (INVITE) ACK ne	

TP number	TP_205_003	Reference	7.2.3.2.8		
TSS reference	ISUP-SIP/Basic call/Sending of ANM/				
Selection criteria	PICS 7.2.4/2 AND NOT PICS	7.2.1/18 AND PICS 7.2.1	/9		
Test Purpose name	200 OK received, coding of E	Backward call indicator in A	NM TMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 200 OK INVITE final response, an ANM is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
	ACM: Backward call indicator				
		us indicator = no indication			
SIP Parameter values	183: P-Early-Media: sendonly				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	T i/w1 started			
	ACM ← CPG ←	T i/w1 expired →	INVITE 183 Session Progress		
	ANM ←	← →	200 OK (INVITE) ACK		
		Apply post test routi	ne		

TP number	TP_205_004	Reference	7.2.3.2.8			
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 7.2.4/2 AND PI	CS 7.2.1/18 AND PICS 7.2.1	/9			
Test Purpose name	200 OK received, cod	ding 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 = 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 M ACM: Backward call	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted ACM: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendonly					
Comments		•				
Message flows	Mg IAM	MGCF → T i/w1 started	ISUP			
	ACM CPG	← T i/w1 expired ←	→ INVITE← 183 Session Progress			
	ANM	←	← 200 OK (INVITE) → ACK			
	Apply post test routine					

TP number	TP_205_005 F	Reference	7.2.3.2.8			
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/					
Selection criteria	PICS 7.2.1/9	PICS 7.2.1/9				
Test Purpose name	200 OK received, coding of Back	kward call indicator in AN	M HLC "Facsimile Group 2/3"			
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 200 OK INVITE final response, an ANM is sent and the Backward call indicator is set to the following values: • Charge indicator = charge (10) • Called party's status indicator = subscriber free (01) • Called party's category indicator = no indication (00) • End-to-end method indicator = no end-to-end method available (00) • Interworking indicator = interworking encountered (1) • End-to-end information indicator = no end-to-end information available (0) • ISDN user part/BICC indicator = ISDN user part not used all the way (0)					
	· ·	ISDN access indicator = terminating access non-ISDN (0)				
	Echo control device indicator = Incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility= Facsimile Group 2/3 ACM: Backward call indicator Called party's status indicator = no indication					
SIP Parameter values	183: P-Early-Media: sendonly	183: P-Early-Media: sendonly				
Comments						
Message flows	IAM → T	MGCF i/w1 started	ISUP			
	ACM ← T	i/w1 expired →	INVITE			
	CPG ←	←	183 Session Progress			
	ANM ←	→	200 OK (INVITE) ACK			
	<u> </u>	Apply post test routing	9			

	I=5	In .	I		
TP number	TP_205_006	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_ANM/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 1 in 200 OK in	nto ATP in the ANM		
Test Purpose			or value 1 in a 200 OK INVITE, an		
	ANM is sent and an Access Tr	ansport Parameter is pres	sent containing a Progress		
	Indicator #1				
ISUP Parameter values	ANM: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000001'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ← 180 Ringing				
	Too runging				
	ANM ←	←	200 OK (INVITE)		
		→	ACK		
		Apply post test routing			

TP number	TP_205_007	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sendin	g_of_ANM/	·		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 2 in 200 OK in	nto ATP in the ANM		
Test Purpose			or value 2 in a 200 OK INVITE, an		
	ANM is sent and an Access	Transport Parameter is pres	sent containing a Progress		
	Indicator #2				
ISUP Parameter values	ANM: Access Transport				
	Progress Indicate				
		cription='0000010'			
SIP Parameter values	200 OK:				
	xml version="1.0" encodi</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000010<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM +	+	180 Ringing		
	ANM ←	←	200 OK (INVITE)		
		→	ACK		
		Apply post test routi	ne		

TP number	TP_205_008	Referer	nce	7.2.3.2.9.2	
TSS reference	ISUP-SIP/Basic call	/Sending_of_ANM/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN X	ML ProgressIndicat	or 4 in 200 OK in	to ATP in the ANM	
Test Purpose	Ensure that on rece	ipt of a PSTN XML I	ProgressIndicator	value 4 in a 200 OK INVITE, an	
	ANM is sent and an	Access Transport F	Parameter is pres	ent containing a Progress	
	Indicator #4				
ISUP Parameter values	ANM: Access Tran	•			
	_	Indicator			
	Ŭ	ess Description='00	00100'		
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000100<				
Comments					
Message flows	Mg		GCF	ISUP	
	IAM	→	→	INVITE	
			←	100 Trying	
	ACM	←	←	180 Ringing	
	ANM	←		200 OK (INVITE)	
				ACK	
		Apply	post test routin	е	

TP number	TP_205_009	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending	_of_ANM/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 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 T	ransport Parameter is pre	sent containing a Progress		
	Indicator #5				
ISUP Parameter values			ricted digital info with T/A,		
		ed, TMR prime = speech o	or 3,1 kHz audio		
	ANM: Access Transport				
	Progress Indicator				
		ription='0000101'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000101<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
	ANM ←	←	200 OK (INVITE)		
		→	ACK		
		Apply post test routi	ne		

TP number	TP_205_010	Re	ference		7.2.3.2.9.2	
TSS reference	ISUP-SIP/Basic ca	II/Sending_of_A	NM/		·	
Selection criteria	PICS 7.2.1/5					
Test Purpose name	No mapping of PS	TN XML Progre	ssIndicator 7 in	200 (OK into ATP in the ANM	
Test Purpose	Ensure that on rec ANM is sent and n Indicator #7. The E ISDN User Par ISDN User ISDN access in	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, an ANM is sent and no Access Transport Parameter is present containing a Progress Indicator #7. The Backward call indicator is set to the following values: ISDN User Part indicator ISDN User Part used all the way ISDN access indicator Terminating access non-ISDN				
	Interworking inc		02.1			
			ered			
ISUP Parameter values SIP Parameter values	ANM: Access Trai Backward of ISDN Us ISDN ISDN ac Tern Interwor no ii 200 OK: xml version="1.0" PSTN ProgressIndica ProgressOc</th <th colspan="5"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
Comments	1 Togroo	ProgressDescription>0000111<				
Message flows	Mg IAM ACM	→	MGCF	→ ←	ISUP INVITE 100 Trying 180 Ringing	
	ANM	←	Apply post test	←	200 OK (INVITE) ACK	

TP number	TP_205_011	Ref	erence	7.2.	3.2.9.2	
TSS reference	ISUP-SIP/Basic ca	all/Sending_of_A	NM/			
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN	XML HighLayerO	Compatibility in	200 OK into ATF	P in ANM	
Test Purpose	Ensure that on rec					
	element is present					
	containing a High		y IE and the va	alue is set to the	value HLC_VA as	
	indicated in table 6					
ISUP Parameter values	ANM: Access Tra	•				
		yer compatibility	-4::d4:6:	tion III C VA		
SIP Parameter values	200 OK:	n layer characteri	sucs identifica	iion = nLC_VA		
SIF Farameter values	PSTN XML MIME	body				
	xml version="1.</th <th></th> <th>.8"?></th> <th></th> <th></th>		.8"?>			
	PSTN	o chooding at	0 :>			
		HighLayerCompatibility				
	HLÓctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLa	<u>yerCharacteristic</u>	s>HLC_VA<			
Comments Manager flavo	Ma		MGCF		ISUP	
Message flows	Mg IAM	→	MGCF	→ INVITE	150P	
	IAW	7		← 100 Tryir	200	
	A C M	←			9	
	ACIVI	ACM ← 180 Ringing				
	ANM	←		← 200 OK (INVITE)	
		_		→ ACK	,	
		Α	pply post test			

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

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

TP number	TP_205_012	Refe	rence	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTI	N XML BearerCapal	oility in 200 OK into	ATP in ANM		
Test Purpose				ML BearerCapability element is		
				neter is present containing a Bearer		
			he value ITC_value	e as indicated in table 6.1.2.5-1		
ISUP Parameter values	ANM: Access T					
		r Capability				
		ormation Transfer C	apability = ITC_val	ue		
SIP Parameter values	200 OK:	4 0 1 1 1 1 1 1 1				
		1.0" encoding="utf-8	"?>			
	PSTN	****				
	BearerCapab	•				
	BCoctet3					
		gStandard>00<	ilita ITC value			
		nationTransferCapat	onity> ITC_value <			
	BCoctet4 TransferMode>00<					
			10000~			
	InformationTransferRate>10000< BCoctet5					
	Layer1Identification>01<					
		nfoLayer1Protocol>(00011<			
Comments		,				
Message flows	Mg		MGCF	ISUP		
	IAM	→	→	INVITE		
			←	100 Trying		
	ACM	←	←	180 Ringing		
	ANM	←	←	200 OK (INVITE)		
	7 31 4171	•	÷	ACK		
		Ар	ply post test routi			

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

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

TP number	TP_205_013	Reference	7.2.3.2.9.3			
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/					
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Bea	rerCapability into Transmiss	sion 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 k TMR=64 kbit/s prefe ANM: TMU: TMU_VA_TMU	Hz audio, USI prime=unrest rred, TMR prime = speech c	_			
SIP Parameter values	200 OK: xml version="1.0" encoding="utf-8"? PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>TMU_VA_BC<					
Comments						
Message flows	Mg IAM →	MGCF → ←	ISUP INVITE 100 Trying			
	ACM ←	←	180 Ringing			
	ANM ←	← →	200 OK (INVITE) ACK			
		Apply post test routi	ne			

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

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

6.1.2.6 Sending of the Connect message (CON)

TP number	TP_206_001	Refe	rence	7.2.3.2.11
TSS reference	ISUP-SIP/Basic call	I/Sending_of_CO	N/	
Selection criteria				
Test Purpose name	Sending of CON me	essage after 200	OK was received	
Test Purpose	Ensure that on rece	ipt of a 200 OK IN	NVITE and no ACM	I was sent, a CON message is sent
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg		MGCF	ISUP
	IAM	→	→	INVITE
			←	100 Trying
	CON	←	←	200 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	NOT PICS 7.2.1/18				
Test Purpose name	200 OK received, coding of B	ackward call indicator in C	ON TMR speech or 3,1 kHz audio		
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received. Ensure that on receipt of a 200 OK INVITE final response, a CON is sent and the Backward call indicator is set to the following values: • Charge indicator = charge (10) • Called party's status indicator = no indication (00) • Called party's category indicator = no indication (00) • End-to-end method indicator = no end-to-end method available (00) • Interworking indicator = interworking encountered (1) • End-to-end information indicator = no end-to-end information available (0) • ISDN user part/BICC indicator = ISDN user part not used all the way (0) • ISDN access indicator = terminating access non-ISDN (0) • Echo control device indicator = Incoming echo control device included (1)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz CON: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	IAM →)	INVITE		
	CON ←	← ← →	100 Trying 200 OK (INVITE) ACK		
		Apply post test routing	ne		

TP number	TP_206_003	Reference	7.2.3.2.11.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	PICS 7.2.4/2 AND NOT PICS 7.2.1/18					
Test Purpose name	200 OK received, coding of B	ackward call indicator in COI	N 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	Mg MGCF ISUP					
	IAM					
		Apply post test routine				

TP number	TP_206_004	Refe	rence	7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 7.2.4/2 AND	PICS 7.2.1/18				
Test Purpose name	200 OK received, o	coding of Backwar	d call indicator in A	NM TMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 200 OK INVITE final response, an CON is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = no indication (00) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = no interworking encountered (0) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part used all the way (1) ISDN access indicator = terminating access ISDN (1) Echo control device indicator = Incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted CON: Backward call indicator Called party's status indicator = no indication					
SIP Parameter values		arry o orarao maro				
Comments						
Message flows	Mg MGCF ISUP					
	IAM	→	→	INVITE		
			←	100 Trying		
	CON	←	←	200 OK (INVITE)		
			→	ACK		
		Ар	ply post test routi	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, an CON is sent and the Backward call indicator is set to the following values: • Charge indicator = charge (10) • Called party's status indicator = no indication (00) • Called party's category indicator = no indication (00) • End-to-end method indicator = no end-to-end method available (00) • Interworking indicator = interworking encountered (1) • End-to-end information indicator = no end-to-end information available (0) • ISDN user part/BICC indicator = ISDN user part not used all the way (0) • ISDN access indicator = terminating access non-ISDN (0)				
ISUP Parameter values SIP Parameter values	Echo control device indicator = Incoming echo control device not included (0) IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility= Facsimile Group 2/3 CON: Backward call indicator Called party's status indicator = no indication				
Comments					
Message flows	Mg MGCF ISUP				
	IAM →	→ ← ←	INVITE 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_o	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 7.2.1/5					
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				
ISUP Parameter values	CON: Access Transport					
loor rarameter values	Progress Indicator					
	Progress Descri	ption='0000001'				
SIP Parameter values	200 OK:					
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→ IN	VITE			
		← 10	00 Trying			
	CON (← 20	00 OK (INVITE)			
			CK			
	Apply post test routine					

TP number	TP 206 007	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CON/				
Selection criteria	PICS 7.2.1/5					
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 PS	TN XML ProgressIndicator val	ue 2 in a 200 OK INVITE, a			
	CON is sent and an Access Tr	ansport Parameter is present of	containing a Progress			
	Indicator #2					
ISUP Parameter values	CON: Access Transport					
	Progress Indicator					
	Progress Descri	ption='0000010'				
SIP Parameter values	200 OK:					
	xml version="1.0" encoding=</th <th colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000010<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→ INV	ITE			
	← 100 Trying					
	CON +		OK (INVITE)			
		→ ACI	•			
	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 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 4 in 200 OK into A	ATP in the CON		
Test Purpose	Ensure that on receipt of a PST	TN XML ProgressIndicator va	lue 4 in a 200 OK INVITE, a		
	CON is sent and an Access Tra	ansport Parameter is present	containing a Progress		
	Indicator #4				
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000100'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000100<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ IN'	/ITE		
		← 10	0 Trying		
	CON ←	← 20	0 OK (INVITE)		
		→ AC	K		
		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 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 5 in 200 OK into	ATP in the CON		
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator v	alue 5 in a 200 OK INVITE, a		
	CON is sent and an Access Ti	ransport Parameter is preser	t containing a Progress		
	Indicator #5				
ISUP Parameter values		z audio, USI prime=unrestrict			
		ed, TMR prime = speech or 3	,1 kHz audio		
	CON: Access Transport				
	Progress Indicator				
	Ŭ	iption='0000101'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
_	ProgressDescriptio	n> 0000101 <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →		IVITE		
		← 10	00 Trying		
	CON		00 OK (INVITE)		
			CK		
		Apply post test routine			

TP number	TP_206_010	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sendir	ng of CON/				
Selection criteria	PICS 7.2.1/5	<u>-9</u>				
Test Purpose name	No mapping of PSTN XML	No mapping of PSTN XML ProgressIndicator 7 in 200 OK into ATP in the CON				
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, a					
	CON is sent and no Access Transport Parameter is present containing a Progress					
	Indicator #7. The Backward call indicator is set to the following values:					
	ISDN User Part indicate	or	-			
	ISDN User Part use	ed all the way				
	ISDN access indicator					
	Terminating acces	s non-ISDN				
	Interworking indicator	_				
	no interworking en					
ISUP Parameter values	CON: Access Transport no					
	Backward call indica	***				
	ISDN User Part					
		ISDN User Part used all the way				
	ISDN access indicator Terminating access non-ISDN					
	Interworking indicator					
	no interworking encountered					
SIP Parameter values	200 OK:	ang encountered				
on randictor values	<pre></pre> <pre><</pre>					
	PSTN	g a s				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescrip	tion> 0000111 <				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
		←	100 Trying			
	CON ←	-	200 OK (INVITE)			
		→	ACK			
		Apply post test routing	ne			

TD 000 044	lp. (7.000.44.0			
	l l	e	7.2.3.2.11.2			
ISUP-SIP/Basic	call/Sending_of_CON/					
PICS 7.2.1/5						
Mapping of PSTN	N XML HighLayerCompa	atibility in 200 Ok	(into ATP in CON			
Ensure that on re	Ensure that on receipt of 200 OK INVITE and a PSTN XML HighLayerCompatibility					
element is prese	element is present a CON is sent and a Access Transport Parameter is present containing					
a High layer com	patibility IE and the valu	e is set to the va	lue HLC_VA as indicated in			
table 6.1.2.5-1						
CON: Access Tr	ransport					
High la	ayer compatibility					
Hiç	gh layer characteristics i	dentification = H	LC_VA			
200 OK:						
PSTN XML MIME	≣ body					
xml version="1</th <th>1.0" encoding="utf-8"?></th> <th></th> <th></th>	1.0" encoding="utf-8"?>					
PSTN	-					
HighLayerCo	HighLayerCompatibility					
HLOctet3	HLOctet3					
Coding	CodingStandard>00<					
Interp	Interpretation>100<					
Prese	PresentationMethod>01<					
HLOctet4						
HighLa	ayerCharacteristics> HL 0	C_VA<				
Mg	MG	CF	ISUP			
IAM	→	→	INVITE			
		(100 Trying			
CON	←		200 OK (INVITE)			
			ACK			
	PICS 7.2.1/5 Mapping of PSTI Ensure that on re element is prese a High layer com table 6.1.2.5-1 CON: Access Ti High la Hig 200 OK: PSTN XML MIMI xml version="7" PSTN HighLayerCo HLOctet3 Codini Interpi Prese HLOctet4 HighL Mg IAM</th <th>ISUP-SIP/Basic call/Sending_of_CON/ PICS 7.2.1/5 Mapping of PSTN XML HighLayerCompation of PSTN XML HighLayerCompation of PSTN XML HighLayerCompation of PSTN XML HighLayer compatibility IE and the valuatable 6.1.2.5-1 CON: Access Transport High layer compatibility High layer characteristics in PSTN XML MIME body <?xml version="1.0" encoding="utf-8"?> PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLO Mg MG IAM MG CON ←</th> <th>ISUP-SIP/Basic call/Sending_of_CON/ PICS 7.2.1/5 Mapping of PSTN XML HighLayerCompatibility in 200 OM Ensure that on receipt of 200 OK INVITE and a PSTN XM element is present a CON is sent and a Access Transpor a High layer compatibility IE and the value is set to the value 6.1.2.5-1 CON: Access Transport High layer compatibility High layer characteristics identification = H 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< Mg MGCF IAM MGCF IAM MGCF</th>	ISUP-SIP/Basic call/Sending_of_CON/ PICS 7.2.1/5 Mapping of PSTN XML HighLayerCompation of PSTN XML HighLayerCompation of PSTN XML HighLayerCompation of PSTN XML HighLayer compatibility IE and the valuatable 6.1.2.5-1 CON: Access Transport High layer compatibility High layer characteristics in PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLO Mg MG IAM MG CON ←	ISUP-SIP/Basic call/Sending_of_CON/ PICS 7.2.1/5 Mapping of PSTN XML HighLayerCompatibility in 200 OM Ensure that on receipt of 200 OK INVITE and a PSTN XM element is present a CON is sent and a Access Transpor a High layer compatibility IE and the value is set to the value 6.1.2.5-1 CON: Access Transport High layer compatibility High layer characteristics identification = H 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< Mg MGCF IAM MGCF IAM MGCF			

TP number	TP_206_012	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML Beare	rCapability in 200 OK into	ATP in CON			
Test Purpose			ML BearerCapability element is			
	present, a CON is sent and a Access Transport Parameter is present containing a Bearer					
		set to the value ITC_value	e as indicated in table 6.1.2.5-1			
ISUP Parameter values	CON: Access Transport					
	Bearer Capability					
		nsfer Capability = ITC_va	ue			
SIP Parameter values	200 OK:					
	<pre><?xml version="1.0" encoding</pre></pre>	j="utf-8"?>				
	PSTN					
	BearerCapability					
		BCoctet3				
	CodingStandard>00< InformationTransferCapability> ITC value <					
		rCapability> II C_value <				
	BCoctet4	_				
	TransferMode>00<	InformationTransferRate>10000<				
	BCoctet5					
		Layer1Identification>01< UserInfoLayer1Protocol>00011<				
Comments	OsermoLayern re	10001200011				
Message flows	Mg	MGCF	ISUP			
occugocc	IAM →	→	INVITE			
		,	100 Trying			
	CON +	`	200 OK (INVITE)			
		→	ACK			
		Apply post test routi				

TD marks	TD 000 040	Defere		7.0.0.0.44	
TP number	TP_206_013	Refere		7.2.3.2.11	
TSS reference		call/Sending_of_CON			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN	N XML BearerCapabil	ty into Transmiss	sion 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				
ISUP Parameter values	in table 6.1.2.5-3 IAM: USI=speech or 3,1 kHz audio, USI prime=unrestricted digital info with T/A,				
SIP Parameter values	200 OK: PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>TMU_VA_BC<				
Comments					
Message flows	Mg	N	GCF	ISUP	
_	CON	→ ←	→ ← ← →	INVITE 100 Trying 200 OK (INVITE) ACK	
		Аррі	y post test routi	ne	

TP number	TP_206_014	Reference	7.2.3.2.11A		
TSS reference	ISUP-SIP/Basic call/Sending of CON/				
Selection criteria	PICS 7.2.1/19				
Test Purpose name	Receipt of a reINVITE request	t			
Test Purpose	Ensure that on receipt of a reINVITE received from the SIP network containing a Call-Info header, the SUT instruct the MGW to send the associated media to the PSTN leg of the communication				
ISUP Parameter values					
SIP Parameter values	INVITE2: Call-Info: <media res<="" th=""><th>source URL></th><th></th></media>	source URL>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE1		
	ACM ←	-	180 Ringing		
	ANM ←	-	200 OK INVITE		
		→	ACK		
		+	INVITE		
		→	200 OK INVITE2		
		←	ACK		
	media				
		Apply post test routi	ne		

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

TP number	TP_207_001	Reference	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/	Receipt_of_4xx-5xx-6xx/		
Selection criteria				
Test Purpose name	Mapping of unsucce	ssful final responses to ISL	JP/BICC Release messages	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response before an early dialogue is established, a Release message Cause value REL_cause is sent on the ISUP/BICC leg of the connection. The mapping is according the table 6.1.2.7-1. The location value in the REL message is set to 'network beyond interworking point'			
ISUP Parameter values		-		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM	→	→ INVITE	
			← 100 Trying	
	REL	←	← 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	127 (interworking unspecified)	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	127 (interworking unspecified)	502 Bad Gateway
VA_35	127 (interworking unspecified)	503 Service Unavailable
VA_36	127 (interworking unspecified)	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	1 (unallocated number)	604 Does not exist anywhere
VA_43	88 (incompatible destination)	606 Not acceptable

TP number	TP_207_002	Re	ference	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria						
Test Purpose name	Mapping of unsucce	essful final resp	onses to REL after	180 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						
SIP Parameter values						
Comments						
Message flows	Mg IAM REL	→	MGCF ↔	100 Trying 180 Ringing SIP_Response		
	RLC	<u>→</u>	<u>→</u>	ACK		

TP number	TP_207_003		Reference	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/Re	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria						
Test Purpose name	Mapping of unsuccessf	ul final r	esponses to REL 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						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF	ISUP		
	REL RLC	→ ← →	→ + + +	INVITE 100 Trying 181 Call is Being Forwarded SIP_Response ACK		

TP number	TP_207_004	Reference	7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_4xx-5xx-6xx/		
Selection criteria				
Test Purpose name	Mapping of unsuccessful fire	nal responses to REL after 18	33 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				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM -	→	INVITE	
		←	100 Trying	
		←	183 Session Progress	
	REL ←	←	SIP_Response	
	RLC →	→	ACK	

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

SIP_Response_VA	←REL (cause code) REL_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	111 (protocol error, unspecified)	400 Bad Request
VA_02	127 (interworking unspecified)	402 Payment Required
VA_03	79 (Service or option not implemented, unspecified)	403 Forbidden
VA_04	127 (interworking unspecified)	406 Not Acceptable
VA_05	102 (recovery on timer expiry)	408 Request Timeout
VA_06	22 (Number changed)	410 Gone
VA_07	127 (interworking unspecified)	423 Interval Too Brief
VA_08	20 Subscriber absent	480 Temporarily Unavailable
VA_09	127 (interworking unspecified)	481 Call/Transaction does not exist
VA_10	127 (interworking unspecified)	482 Loop detected
VA_11	127 (interworking unspecified)	483 Too many hops
VA_12	127 (interworking unspecified)	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	127 (interworking unspecified)	502 Bad Gateway
VA_17	127 (interworking unspecified)	504 Server timeout
VA_18	21 (Call rejected)	603 Decline
VA_19	1 (unallocated number)	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 header into	Cause value of REL					
Test Purpose	Ensure that on receipt of an ur	successful final response	SIP_Response and a Reason				
			used in the corresponding REL				
	message. The mapping is indic	cated in table 6.1.2.7-3. T	he location value in the REL				
	message is set to 'network bey	ond interworking point'					
ISUP Parameter values	REL: Cause= SIP_cause						
SIP Parameter values	SIP_Response: Reason: cau						
Comments	The use of different cause valu	es in the Reason header	is recommended. The cause value				
	should be adequate to the resp	oonse code.					
Message flows	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
		←	100 Trying				
	REL ←	←	SIP_Response				
	RLC →	→	ACK				

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

SIP_Response_VA	←REL (cause code) SIP_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	SIP_cause	400 Bad Request
VA_02	SIP_cause	401 Unauthorized
VA_03	SIP_cause	402 Payment Required
VA_04	SIP_cause	403 Forbidden
VA_05	SIP_cause	404 Not Found
VA_06	SIP_cause	405 Method Not Allowed
VA_07	SIP_cause	406 Not Acceptable
VA_08	SIP_cause	407 Proxy authentication required
VA_09	SIP_cause	408 Request Timeout
VA_10	SIP_cause	410 Gone
VA_11	SIP_cause	413 Request Entity too long
VA_12	SIP_cause	414 Request-URI too long
VA_13	SIP_cause	415 Unsupported Media type
VA_14	SIP_cause	416 Unsupported URI scheme
VA_15	SIP_cause	417 Unknown Resource-Priority
VA_16	SIP_cause	420 Bad Extension
VA_17	SIP_cause	421 Extension required
VA_18	SIP_cause	422 Session Interval Too Small
VA_19	SIP_cause	423 Interval Too Brief
VA_20	SIP_cause	433 Anonymity Disallowed.
VA_21	SIP_cause	440 Max-Breadth Exceeded
VA_22	SIP_cause	480 Temporarily Unavailable
VA_223	SIP_cause	481 Call/Transaction does not exist
VA_24	SIP_cause	482 Loop detected
VA_25	SIP_cause	483 Too many hops
VA_26	SIP_cause	484 Address Incomplete
VA_27	SIP_cause	485 Ambiguous
VA_28	SIP_cause	486 Busy Here
VA_29	SIP_cause	487 Request terminated
VA_30	SIP_cause	488 Not acceptable here
VA_31	SIP_cause	493 Undecipherable
VA_32	SIP_cause	500 Server Internal error
VA_33	SIP_cause	501 Not implemented
VA_34	SIP_cause	502 Bad Gateway
VA_35	SIP_cause	503 Service Unavailable
VA_36	SIP_cause	504 Server timeout
VA_37	SIP_cause	505 Version not supported
VA_38	SIP_cause	513 Message too large
VA_39	SIP_cause	580 Precondition failure
VA_40	SIP_cause	600 Busy Everywhere
VA_41	SIP_cause	603 Decline
VA_42	SIP_cause	604 Does not exist anywhere
VA_43	SIP_cause	606 Not acceptable

TP number	TP_207_006	Reference	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/Receipt_of	_4xx-5xx-6xx/	·		
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of PSTN XML Progrest the REL		·		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #1				
ISUP Parameter values	REL: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000001'			
SIP Parameter values	SIP_Response:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>000001<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ IN	IVITE		
		← 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/Re	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/					
Selection criteria	PICS 7.2.1/5	•					
Test Purpose name	Mapping of PSTN XML the REL	ProgressIndicator 2 in a	n unsuccessful final response into ATP in				
Test Purpose		in table 6.1.2.7-4, a REL	sIndicator value 2 in an unsuccessful final is sent and an Access Transport Parameter				
ISUP Parameter values	REL: Access Transpo Progress Ind Progress						
SIP Parameter values	SIP_Response: xml version="1.0" er PSTN ProgressIndicator ProgressOctet4 ProgressDe</th <th>•</th> <th></th>	•					
Comments							
Message flows	Mg IAM REL RLC	MGCF → ←	ISUP → INVITE ← 100 Trying ← SIP_Response → ACK				

TP number	TP_207_008	Reference	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic call/Receipt_o	f_4xx-5xx-6xx/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre the REL	ssIndicator 4 in an unsucce	essful final response into ATP in			
Test Purpose	response as indicated in table	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #4				
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
	Progress Descri	otion='0000100'				
SIP Parameter values	SIP_Response:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>0000100<				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
		←	100 Trying			
	REL ←	← :	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	or_4xx-5xx-6xx/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	Mapping of PSTN XML ProgressIndicator 5 in an unsuccessful final response into ATP in				
	the REL					
Test Purpose			alue 5 in an unsuccessful final			
	response as indicated in table	6.1.2.7-4, a REL is sent and	an Access Transport Parameter			
	is present containing a Progre	ss Indicator #5				
ISUP Parameter values	IAM: USI=speech or 3,1 kHz	audio, USI prime=unrestricte	ed digital info with T/A,			
	TMR=64 kbit/s preferre	ed, TMR prime = speech or 3,	1 kHz audio			
	REL: Access Transport					
	Progress Indicator					
		iption='0000101'				
SIP Parameter values	SIP_Response:	•				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n> 0000101 <				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	→ IN	IVITE			
			00 Trying			
	REL ←		P_Response			
			•			
	RLC →	7 A	CK			

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

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

TP number	TP_207_010	Reference	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic ca	all/Receipt_of_4xx-5xx-6xx				
Selection criteria	PICS 7.2.1/5	•				
Test Purpose name	in REL		ity in an unsuccessful final response into ATP			
Test Purpose			al response and a PSTN XML			
			REL is sent and a Access Transport			
			compatibility IE and the value is set to the			
		indicated in table 6.1.2.5-1				
ISUP Parameter values	REL: Access Tra					
		er compatibility				
		layer characteristics iden	ification = HLC_VA			
SIP Parameter values	SIP_Response:					
		PSTN XML MIME body				
		<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	HighLayerCom	patibility				
	HLOctet3					
		Standard>00<				
		tation>100<				
		ationMethod>01<				
		HLOctet4				
	HighLay	erCharacteristics> HLC_V	A <			
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	→	→ INVITE			
			100 Trying			
	REL	←	SIP_Response			
	RLC	→	→ ACK			

TP number	TP_207_011	Reference	7.2.3.2.12
TSS reference	ISUP-SIP/Basic call/F	Receipt_of_4xx-5xx-6xx/	
Selection criteria	PICS 7.2.1/5		
Test Purpose name	Mapping of PSTN XM	IL BearerCapability in an un	successful final response into ATP in REL
Test Purpose		t of an unsuccessful final re	
			nt and a Access Transport Parameter is
	present containing a Bearer Capability IE and the value is set to the value ITC_value as		
	indicated in table 6.1.		
ISUP Parameter values	REL: Access Transp		
	Bearer Cap	, ,	
		ation Transfer Capability = I 1	C_value
SIP Parameter values	SIP_Response:		
	xml version="1.0" 6</th <th>encoding="utf-8"?></th> <th></th>	encoding="utf-8"?>	
	PSTN		
	BearerCapability		
	BCoctet3		
		ndard>00<	.1
		nTransferCapability> ITC_va	iiue <
	BCoctet4 TransferMo	odo: 00 4	
		nTransferRate>10000<	
	BCoctet5	Triansier Rate > 10000 <	
		ntification>01<	
		ayer1Protocol>00011<	
Comments	0001111020	2901111010001111	
Message flows	Mg	MGCF	ISUP
	IAM	→	→ INVITE
			← 100 Trying
	REL	←	← SIP_Response
	RLC	→	→ ACK

TP number	TP_207_012	Reference	7.2.3.2.12
TSS reference	ISUP-SIP/Basic call/Receipt_o	of_4xx-5xx-6xx/	·
Selection criteria	PICS 7.2.1/20		
Test Purpose name	Play media provided in an Err	or-Info header received in	an unsuccessful final response
Test Purpose	Ensure that the SUT instructs	the MGW to play out medi	a associated with an URL present
	in an Error-Info header receive	ed in an unsuccessful final	response as indicated in
	table 6.1.2.7-4		
ISUP Parameter values			
SIP Parameter values	SIP_Response: Error-Info: <n< th=""><th>ledia re source URL></th><th></th></n<>	ledia re source URL>	
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
		←	100 Trying
		←	SIP_Response
		→	ACK
	media		
		Apply post test routing	ne

TP number	TP_207_013	Reference	7.2.3.2.12.1, 7.2.3.3
TSS reference	ISUP-SIP/Basic call/Receipt_of	f_4xx-5xx-6xx/	
Selection criteria	PICS 7.2.4/2		
Test Purpose name	Handling of 404 and 484 respo	nses after sending of INVITE	
Test Purpose	Ensure that on receipt of a 404 sending of INVITE without dete expiry of T i/w3 a REL is sent, to	ermining the end of address sig	nalling, timer Ti/w3. After
ISUP Parameter values	REL: Cause=28	•	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
		Ti/w2 started → INV Fi/w3 started ← 484 → ACP	Address Incomplete
	- · · · · ·	Ti/w2 started → INV Ti/w3 started ← 484 → ACP	Address Incomplete
	REL ← 1	Ti/w3 expired	

TP number	TP_207_014	R	eference		7.2.3.	2.19
TSS reference	ISUP-SIP/Basic cal	II/Receipt_of_4	4xx-5xx-6xx/			
Selection criteria		•				
Test Purpose name	Handling of 3xx res	ponses after s	sending of INV	ITE		
Test Purpose	Ensure that on rece REL is sent. The Ca					6.1.2.7-5, an ISUP
ISUP Parameter values	REL: Cause=127					
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
-	IAM	→		→	INVITE	
	REL	←		←	3xx_VA	
	RLC	→		→	ACK	

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

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

TP number	TP_207_015		Reference		7.2.3.2.17.2	
TSS reference	ISUP-SIP/Bas	sic call/Receipt_of	_4xx-5xx-6xx/			
Selection criteria	PICS 7.2.1/3					
Test Purpose name	580 response	to an UPDATE w	ithin an early dialog			
Test Purpose	Ensure that on receipt of a 580 Precondition Failure final response after an UPDATE request was sent in the early dialogue, a REL is sent and the Cause value is set to 127					
ISUP Parameter values	IAM: Nature of	of connection indic	ator= continuity check	c require	ed on this circuit or continuity	
	check perform	ned on previous ci	rcuit			
	COT: Continuity indicator=continuity check successful					
SIP Parameter values		orted: preconditio				
	SDP	a=curr:qos local r	none			
		a=curr:qos remot	e none			
	a=des:qos mandatory local sendrecv					
		a=des:qos none r	remote sendrecv			
	183: Require:	100rel				
	SDP	a=curr:qos local r	none			
		a=curr:qos remot	e none			
		a=des:gos manda	atory local sendrecv			
		a=des:qos manda	atory remote sendrecy	/		
		a=conf:qos remot	e sendrecv			
	UPDATE:					
	SDP	a=curr:qos local s	sendrecy			
	05.	a=curr:qos remot				
			atory local sendrecv			
			atory remote sendrecy	/		
Comments						
Message flows	Mg		MGCF		ISUP	
	IAM	→		→	INVITE	
				←	100 Trying	
				←	183 Session Progress	
				→	PRACK	
				←	200 OK (PRACK)	
	СОТ	→		→	UPDATÈ	
				←	580 Precondition Failure	
			Apply post test ro	utine		

6.1.2.8 Receipt of a BYE

TD mumb on	TD 000 004	Deference	7.0.0.40		
TP number	TP_208_001	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Rec	eipt_of_BYE/			
Selection criteria					
Test Purpose name	BYE received, REL is se	nt			
Test Purpose	Ensure that on receipt of a BYE message and no reason header is present, a REL is sent. The Cause value of the REL is set to #16, the location is set to 'network beyond interworking point'				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→ →	INVITE		
		+	100 Trying		
	ACM	+ +	180 Ringing		
	7.5				
	ANM	+ +	200 OK (INVITE)		
	/ · · · · · ·	· →	ACK		
		•	AOIX		
	REL	← ←	BYE		
	RLC	→	200 OK (BYE)		

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

TD	TD 000 000	1.	5 (7.000.40		
TP number	TP_208_003		Reference		7.2.3.2.13		
TSS reference	ISUP-SIP/Basic ca	II/Receipt_of_	_BYE/				
Selection criteria	PICS 7.2.1/5						
Test Purpose name	Mapping of PSTN	XML Progres	sIndicator 1 in a	BYE into	ATP in the REL		
Test Purpose	Ensure that on rec	eipt of a PSTI	N XML Progress	Indicator	r value 1 in a BYE request, a REL		
-					ontaining a Progress Indicator #1		
ISUP Parameter values	REL: Access Tra		•				
		s Indicator					
			tion='0000001'				
SIP Parameter values	BYE:	•					
	xml version="1.0</th <th>)" encodina="</th> <th>utf-8"?></th> <th></th> <th></th>)" encodina="	utf-8"?>				
	PSTN						
	ProgressIndica	tor					
	ProgressOc						
		sDescription>	-0000001<				
Comments		•					
Message flows	Mg		MGCF		ISUP		
	IAM	→		→	INVITE		
				←	100 Trying		
	ACM	←		+	180 Ringing		
	, con tanging						
	ANM ← 200 OK (INVITE)						
	7 (1 (1))	→ ACK					
				•	7.010		
	REL	←		←	BYE		
	RLC	→		→	= : =		
i	ILLO	7		7	200 OK (BYE)		

TP number	TP_208_004		Reference		7.2.3.2.13	
TSS reference	ISUP-SIP/Basic call/Re	eceipt_of	_BYE/			
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML	Progres	sIndicator 2 in a	BYE in	to ATP in the REL	
Test Purpose					or value 2 in a BYE request, a REL containing a Progress Indicator #2	
ISUP Parameter values	REL: Access Transpo					
	Progress Inc					
	•	Descrip	tion='0000010'			
SIP Parameter values	BYE:					
	xml version="1.0" er</th <th>ncoding=</th> <th>"utf-8"?></th> <th></th> <th></th>	ncoding=	"utf-8"?>			
	_	PSTN				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDe	scription:	>0000010<			
Comments						
Message flows	Mg		MGCF		ISUP	
	IAM	→		→	INVITE	
				←	100 Trying	
	ACM	←		←	180 Ringing	
	ANM	←		←	200 OK (INVITE)	
				→	ACK	
	REL	←		←	BYE	
	RLC	→		→	200 OK (BYE)	

TD	TD 000 005	1.			7.00040		
TP number	TP_208_005		Reference		7.2.3.2.13		
TSS reference	ISUP-SIP/Basic ca	II/Receipt_of_	_BYE/				
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN 2	KML Progress	sIndicator 4 in a	BYE into	ATP in the REL		
Test Purpose	Ensure that on rece	eipt of a PSTI	N XML Progress	Indicator	value 4 in a BYE request, a REL		
-	is sent and an Acce	ess Transport	: Parameter is p	resent co	ntaining a Progress Indicator #4		
ISUP Parameter values	REL: Access Tran		•				
	Progress	Indicator					
			ion='0000100'				
SIP Parameter values	BYE:	•					
	xml version="1.0</th <th>" encodina="</th> <th>utf-8"?></th> <th></th> <th></th>	" encodina="	utf-8"?>				
	PSTN	3					
	ProgressIndicat	or					
	ProgressOc						
		Description>	0000100<				
Comments	, and the second	'					
Message flows	Mg		MGCF		ISUP		
	IAM	→		→	INVITE		
				←	100 Trying		
	ACM	←			180 Ringing		
	7 Too Kinging						
	ANM ← 200 OK (INVITE)						
	→ ACK						
				7	AUN		
	חבו	←		_	BYE		
	REL				= : =		
	RLC	→		→	200 OK (BYE)		

TP number	TP_208_006	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Red	ceipt_of_BYE/			
Selection criteria	PICS 7.2.1/5	•			
Test Purpose name	Mapping of PSTN XML I	ProgressIndicator 5 in a E	BYE into ATP in the REL		
Test Purpose	is sent and an Access T	ransport Parameter is pre	ndicator value 5 in a BYE request, a REL esent containing a Progress Indicator #5		
ISUP Parameter values	IAM: USI=speech or 3,1 kHz audio, USI prime=unrestricted digital info with T/A,				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101<				
Comments		•			
Message flows	Mg IAM ACM	MGCF →	ISUP → INVITE ← 100 Trying ← 180 Ringing		
	ANM	←	← 200 OK (INVITE)→ ACK		
	REL RLC	← →	← BYE→ 200 OK (BYE)		

TP number	TP_208_007	Reference		7.2.3.2.13			
TSS reference	ISUP-SIP/Basic call/Rece			7.2.0.2.10			
Selection criteria	PICS 7.2.1/5	<u> </u>					
Test Purpose name	Mapping of PSTN XML HighLayerCompatibility in a BYE into ATP in REL						
Test Purpose				. HighLayerCompatibility element is			
rest i dipose							
		present a REL is sent and a Access Transport Parameter is present containing a High layer compatibility IE and the value is set to the value HLC_VA as indicated in					
	table 6.1.2.5-1	the value is set to the ve		20_ V/ Cub indibatod in			
ISUP Parameter values	REL: Access Transport						
	High layer con	npatibility					
		characteristics identificat	ion = I	HLC VA			
SIP Parameter values	BYE:			_			
	PSTN XML MIME body						
	xml version="1.0" enco</th <th>oding="utf-8"?></th> <th></th> <th></th>	oding="utf-8"?>					
	PSTN						
	HighLayerCompatibili	ty					
	HLOctet3						
	CodingStandard>00<						
	Interpretation>100<						
	PresentationMethod>01<						
	HLOctet4						
	HighLayerCharacteristics> HLC_VA <						
Comments							
Message flows	Mg	MGCF		ISUP			
	IAM	→	→	INVITE			
			←	100 Trying			
	ACM ← 180 Ringing						
	ANM ← 200 OK (INVITE)						
			→	ACK			
	DEL		,	DVE			
		((BYE			
	RLC	→	<u>→</u>	200 OK (BYE)			

TP number	TP_208_008	Reference	7.2.3.2.13			
TSS reference	ISUP-SIP/Basic call/Receipt_o	f_BYE/				
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of PSTN XML Bearer	Capability in a BYE into AT	TP in REL			
Test Purpose	Ensure that on receipt of a BYE					
			r is present containing a Bearer			
	Capability IE and the value is s	et to the value ITC_value a	as indicated in table 6.1.2.5-2			
ISUP Parameter values	REL: Access Transport					
	Bearer Capability					
		sfer Capability = ITC_valu	е			
SIP Parameter values	BYE:					
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
		Capability> ITC_value <				
	BCoctet4					
	TransferMode>00<					
	InformationTransferRate>10000<					
	BCoctet5					
	Layer1Identification>01<					
Comments	UserInfoLayer1Protocol>00011<					
Message flows	Mg	MGCF	ISUP			
Wessage nows	IAM →		INVITE			
	IAW					
	A C N A		100 Trying			
	ACM ← 180 Ringing					
	ANM ←	_	200 OK (INIVITE)			
	ANM ←		200 OK (INVITE)			
		7	ACK			
	REL ←	←	BYE			
	RLC +		— · —			
<u></u>	INLO 7	7	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_of	_REL/			
Selection criteria					
Test Purpose name	REL received before an early d	ialogue 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></th><th></th></ca<>	use value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	REL →	→	CANCEL		
	RLC ←	←	200 OK (CANCEL)		
		←	487 Request Terminated		
		→	ACK		

TP number	TP_209_002	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receipt_or	f_REL/	·		
Selection criteria					
Test Purpose name	REL received after an early dia	logue with 180 was establi	ished, 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></th><th></th></ca<>	use value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
	REL →	→	CANCEL		
	RLC ←		200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP_209_003	Reference	7.2.3.2.14
TSS reference	ISUP-SIP/Basic call/Receipt_of	_REL/	
Selection criteria			
Test Purpose name	REL received after an early dia	logue with 181 was establis	shed, a CANCEL is sent
Test Purpose			alogue due to a 181 Call is Being
			is sent and the Reason header
	is present, the cause value is d	erived from the Cause valu	e in the received REL
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value></th><th></th></ca<>	use value>	
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→ II	NVITE
		← 1	00 Trying
	ACM ←		81 Being forwarded
	REL →	→ (CANCEL
	RLC ←	← 2	00 OK (CANCEL)
		← 4	87 Request Terminated
		→ A	CK .

TP number	TP 209 004	Reference	7.2.3.2.14	
TSS reference	ISUP-SIP/Basic call/Rece		· ·=·······	
Selection criteria		. = =		
Test Purpose name				
Test Purpose	REL received after an ear	ly dialogue with 182 was est	ablished, a CANCEL is sent	
ISUP Parameter values	Ensure that on receipt of a REL message after an early dialogue due to a 182 Queued response was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL			
SIP Parameter values	REL: Cause value			
Comments	CANCEL: Reason: cause	= <cause value=""></cause>		
Message flows	Mg	MGCF	ISUP	
	IAM -	→	INVITE	
		←	100 Trying	
	ACM •	-	182 Queued	
	REL •	→	CANCEL	
	RLC •	←	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_of	_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></th><th></th></ca<>	use value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ II	NVITE		
		← 1	00 Trying		
	ACM ←	← 1	83 Session Progress		
	REL →	-	ANCEL		
	RLC ←		00 OK (CANCEL)		
			87 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	dialogue a BYE is sent			
Test Purpose			ed dialogue, a BYE request is sent		
	and the Reason header is pres	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></th><th></th></caus<>	e value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ←	←	180 Ringing		
			0 0		
	ANM ←	←	200 OK (INVITE)		
			ACK		
	REL →	→	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 7.2.1/5					
Test Purpose name	BYE		ML ProgressIndicator #1 in the			
Test Purpose			ntaining a Progress Indicator #2 in			
	the confirmed dialogue, a BYE		TN XML ProgressIndicator is			
	present, the ProgressDescript	ion is set to #1				
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
OID D		iption='0000001'				
SIP Parameter values	BYE:					
	<pre><?xml version="1.0" encoding PSTN</pre></pre>	="utt-8"?>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments						
Message flows	Mg	MGCF	ISUP			
_	IAM →	→	INVITE			
		←	100 Trying			
	ACM ←	←	180 Ringing			
	ANM ←	←	200 OK (INVITE)			
		→	ACK			
	REL →	→	BYE			
	RLC ←	+	200 OK (BYE)			

TP number	TP_209_008	R	eference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic of	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 7.2.1/5	, = =				
Test Purpose name	Mapping of REL A	ATP Progress Ir	ndicator #2 into	PSTN)	XML ProgressIndicator #2 in the	
Test Purpose		logue, a BYE re	quest is sent a		ontaining a Progress Indicator #2 in STN XML ProgressIndicator is	
ISUP Parameter values		ansport ess Indicator ogress Descripti	on='0000010'			
SIP Parameter values	BYE: PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<					
Comments		•				
Message flows	Mg IAM ACM	→	MGCF	→ ←	ISUP INVITE 100 Trying 180 Ringing	
	ANM ← 200 OK (INVITE) → ACK					
	REL RLC	→		→	BYE 200 OK (BYE)	

TP number	TP_209_009	Reference	7.2.3.2.14			
TSS reference	ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 7.2.1/5					
Test Purpose name	Mapping of REL ATP Progres BYE	s Indicator #4 into PSTN X	ML ProgressIndicator #4 in the			
Test Purpose			ntaining a Progress Indicator #4 in			
	the confirmed dialogue, a BYE		ΓN XML ProgressIndicator is			
	present, the ProgressDescript	tion is set to #4				
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
OID D		ription='0000100'				
SIP Parameter values	BYE:	. H. of 0110				
	<pre><?xml version="1.0" encoding PSTN</pre></pre>	="utt-8"?>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000100<					
Comments	The state of the s					
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
		←	100 Trying			
	ACM ←	←	180 Ringing			
	ANM ←	←	200 OK (INVITE)			
		→	ACK			
	REL →	→	BYE			
	RLC ←	+	200 OK (BYE)			

TP number	TP 209 010	Reference	7.2.3.2.14		
			1.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Red	ceipt_of_REL/			
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of REL ATP Pr BYE	ogress Indicator #5 into	PSTN XML ProgressIndicator #5 in the		
Test Purpose		a BYE request is sent a	n ATP containing a Progress Indicator #5 in and a PSTN XML ProgressIndicator is		
ISUP Parameter values	REL: Access Transpor Progress Indi				
SIP Parameter values	BYE:	Description= 0000 for			
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101</pre>				
Comments					
Message flows	IAM ACM	MGCF →	ISUP → INVITE ← 100 Trying ← 180 Ringing		
	ANM	←	← 200 OK (INVITE) → ACK		
	REL RLC	→ ←	→ BYE← 200 OK (BYE)		

TP number	TP_209_011	Refer	ence	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/I	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 7.2.1/5	PICS 7.2.1/5				
Test Purpose name	Mapping of REL ATP the BYE	High layer com	patibility into PSTN	XML HighLayerCompatibility in		
Test Purpose	IE in the confirmed di HighLayerCompatibil indicated in table 6.1	ialogue, a BYE re ity is present, the .2.5-1	equest is sent and	containing a High layer compatibility a PSTN XML cteristics is set to HLC_VA as		
ISUP Parameter values		compatibility	cs identification =	HLC_VA		
SIP Parameter values	BYE: PSTN XML MIME body PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_VA<					
Comments			_			
Message flows	Mg IAM ACM ANM	→ ← ← →	### ### ### ### ### ### ### ### ### ##	ISUP INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK BYE		
	RLC	←	+	200 OK (BYE)		

TP number	TP_209_012	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receipt of REL/				
Selection criteria	PICS 7.2.1/5				
Test Purpose name	Mapping of REL ATP Bearer C	Capability into PSTN XML	Bearer Capability in the BYE		
Test Purpose			ontaining a High layer compatibility		
-			a PSTN XML Bearer Capability is		
	present, the InformationTransf	erCapability is set to HLC	VA as indicated in table 6.1.2.5-2		
ISUP Parameter values	REL: Access Transport				
	Bearer Capability				
	Information Tran	nsfer Capability = ITC_val	ue		
SIP Parameter values	BYE:				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00				
	InformationTransferCapability> ITC_value <				
	BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
	BCoctet5				
	Layer1Identification				
	UserInfoLayer1Prot	ocol>00011<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	ACM ← 180 Ringing				
	ANM ← 200 OK (INVITE)				
		→	ACK		
	REL →	→	BYE		
	RLC ←	+	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_o	f_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	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	100 Trying		
	RSC →	→	CANCEL		
	RLC ←	← :	200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP_210_002	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 RSC after an early	dialogue with 180 was esta	blished		
Test Purpose	Ensure that on receipt of a RSC before 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	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	RSC →	→ (CANCEL		
	RLC ←		200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP_210_003	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 an early dialogue with 181 was established				
Test Purpose	Ensure that on receipt of a RSC before 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	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	181 Being forwarded		
	RSC →	→ (CANCEL		
	RLC ←	← 2	200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP_210_004	Ref	erence	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	Receipt of RSC after an early dialogue with 183 was established				
Test Purpose	Ensure that on receipt of a RSC before 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:	CANCEL: Reason:				
Comments						
Message flows	Mg		MGCF	ISUP		
	IAM	→	→	INVITE 183 Session Progress		
	RSC RLC	→ ←	→ ← ← →	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/Receip	ot_of_RSC-GRS-CGB/	
Selection criteria			
Test Purpose name	Receipt of RSC after a con	firmed dialogue was establish	ned
Test Purpose	Ensure that on receipt of R response was established,		e with a 200 OK (INVITE) final
ISUP Parameter values			
SIP Parameter values	BYE: Reason:		
Comments			
Message flows	Mg	MGCF	ISUP
	IAM -	→	INVITE
	ACM ←	←	180 Ringing
	ANM ←	←	200 OK (INVITE)
		→	ACK
	RSC +	→	BYE
	RLC +	+	200 OK (BYE)

TP number	TP_210_006	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 GRS before an	early dialogue was establishe	d		
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	Mg	MGCF	ISUP		
	IAM =	→	INVITE		
		←	100 Trying		
	GRS -	→	CANCEL		
	GRA •	-	200 OK (CANCEL)		
		←	487 Request Terminated		
		→	ACK		

TP number	TP 210 007	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Receip		T.E.O.E. TO			
Selection criteria						
Test Purpose name	Receipt of GRS after an ea	arly dialogue with 180 was es	tablished			
Test Purpose	provisional response is est	Ensure that on receipt of a GRS before 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	Mg	MGCF	ISUP			
	IAM -	→	INVITE			
	ACM ←	+	180 Ringing			
	GRS -	→	CANCEL			
	GRA €	· ←	200 OK (CANCEL)			
		← →	487 Request Terminated ACK			

TP number	TP_210_008	Reference	7.2.3.2.15	
TSS reference	ISUP-SIP/Basic call/Receipt	of_RSC-GRS-CGB/		
Selection criteria				
Test Purpose name	Receipt of GRS after an early	y dialogue with 181 was esta	ablished	
Test Purpose	Ensure that on receipt of a GRS before 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	Mg	MGCF	ISUP	
	IAM →	→	INVITE 181 Being forwarded	
	GRS → GRA ←	←	CANCEL 200 OK (CANCEL) 487 Request Terminated ACK	

TP number	TP_210_009	F	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic cal	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of GRS after	er an early di	alogue with 183 was	established		
Test Purpose	Progress provisiona	Ensure that on receipt of a GRS before 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	Mg		MGCF	ISUP		
_	IAM	→	7	NVITE		
			•	183 Session Progress		
	GRS	→	-	CANCEL		
	GRA	←	+	 200 OK (CANCEL) 		
			←	487 Request TerminatedACK		

TP number	TP_210_010	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic cal	I/Receipt_of_RSC-GRS-Co	GB/			
Selection criteria						
Test Purpose name	Receipt of GRS after	er a confirmed dialogue wa	s established			
Test Purpose		Insure 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	Mg	MGCF	ISUP			
	IAM ACM ANM	→ ← ←	 → INVITE ← 180 Ringing ← 200 OK (INVITE) → ACK 			
	GRS GRA	→ ←	→ BYE← 200 OK (BYE)			

TP number	TP_210_011	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 GRS after a conare terminated.	firmed dialogue was establis	shed, all affected communications
Test Purpose		al response was established	ot of GRS after a confirmed dialogue, a BYE request for each of the
ISUP Parameter values			
SIP Parameter values	BYE: Reason:		
Comments			
Message flows	Mg	MGCF	ISUP
		Two connection are esta	blished
	GRS →		
	GRA ←	→	BYE (1)
		←	200 OK (BYE)
		→	BYE (2) 200 OK (BYE)

TP number	TP_210_012	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of CGB 'hardware	oriented' before an early dia	logue was established		
Test Purpose	established, a CANCEL red	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 superv	sion message type=hardwa	re failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM -	· → ←	INVITE 100 Trying		
	CGB -	· -	CANCEL		
	CGBA ←	· ←	200 OK (CANCEL)		
		← →	487 Request Terminated ACK		

TP number	TP_210_013	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 CGB 'hardware	oriented' after an early dialogu	ue with 180 was established	
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' before 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 supervi	sion message type=hardware	failure oriented	
SIP Parameter values	CANCEL: Reason:			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	→	INVITE	
	ACM ←	+	180 Ringing	
	CGB →		CANCEL	
	CGBA ←		200 OK (CANCEL) 487 Request Terminated ACK	

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

TP number	TP_210_015	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_o	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' before 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	message type=hardware	failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		←	183 Session Progress		
	CGB →	→	CANCEL		
	CGBA ←	←	200 OK (CANCEL)		
			487 Request Terminated ACK		

TP number	TP_210_016	Reference		7.2.3.2.15
TSS reference	ISUP-SIP/Basic call	I/Receipt_of_RSC-GRS-	CGB/	·
Selection criteria		. <u> </u>		
Test Purpose name	Receipt of CGB 'hai	rdware oriented' after a	confirmed dia	alogue was established
Test Purpose	Ensure that on rece	ipt of CGB 'hardware ori	ented' after	a confirmed dialogue with a 200
-	OK (INVITE) final re	esponse was established	l, a BYE requ	uest is sent
ISUP Parameter values	CGB: Circuit group	supervision message ty	pe=hardware	e failure oriented
SIP Parameter values	BYE: Reason:			
Comments				
Message flows	Mg	MGCF		ISUP
_	IAM	→	→	INVITE
	ACM	←	←	180 Ringing
	ANM	←	←	200 OK (INVITE)
			→	ACK
	CGB	→	→	BYE
	CGBA	(←	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	Two connections are established. Ensure that on receipt of CGB 'hardware oriented' after a confirmed dialogue with a 200 OK (INVITE) final response was established, a BYE request for each of the established connection is sent				
ISUP Parameter values	CGB: Circuit group supervision	n message type=hardware	e failure oriented		
SIP Parameter values	BYE: Reason:				
Comments					
Message flows	Mg	MGCF	ISUP		
	T\	vo connection are estab	lished		
	CGB →				
	CGBA ←	→	BYE (1)		
		+	200 OK (BYE)		
		→	BYE (2) 200 OK (BYE)		

6.1.2.11 Autonomous Release at O-MGCF

TP number	TP_211_001	Reference	7.2.3.2.16
TSS reference	ISUP-SIP/Basic call/Autonomo	us_Release/	
Selection criteria	PICS 7.2.1/3		
Test Purpose name	COT procedure fails		
Test Purpose	IAM received and the continuit	y check indicator is set to	'continuitycheck required' or
	performed on a previous circu	it'. Ensure that on receipt	of a COT message and the
			Iready established early dialog is
	terminated. A CANCEL reques	t is sent. A Reason head	er is present containing the cause
	value '41'		
ISUP Parameter values	COT: 'continuity check failed'		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
		←	100 Trying
		←	183 Session Progress
		→	PRACK
		←	200 OK (PRACK)
	сот →	→	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/	Autonomous_Release/					
Selection criteria	PICS 7.2.1/3						
Test Purpose name	T8 expires						
Test Purpose	performed on a prev	IAM received and the conrinui check indicator is set to 'continuitycheck required' or 'performed on a previous circuit'. Ensure that on expiry of ISUP timer T8 the already established early dialog is terminated. A CANCEL request is sent					
ISUP Parameter values			·				
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM	Start T8	 → INVITE ← 100 Trying ← 183 Session Progress → PRACK ← 200 OK (PRACK) 				
		T8 expires	 → 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/Autonomo	us_Release/	,				
Selection criteria							
Test Purpose name	Call is released to due messag dialogue	e compatibility instruction	'Release call' received in the early				
Test Purpose	Ensure that on receipt of an unknown ISUP message in the early dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP CANCEL request is sent and a Reason header field is present						
ISUP Parameter values	??? = unknown message: Message compatibility information: Release call indicator=release call REL: Cause=97						
SIP Parameter values	CANCEL: Reason:						
Comments	For an unknown message use	a message type unknown	in the SUT.				
Message flows	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
	ACM ←	+	100 Ringing				
	??? →						
	REL ← → CANCEL						
	RLC →		200 OK (CANCEL)				
			487 Request Terminated ACK				

TP number	TP_211_004	Reference	7.2.3.2.16			
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/	·			
Selection criteria						
Test Purpose name	Call is released to due message confirmed dialogue	ge compatibility instruction	r '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 information: Release call indicator=release call REL: Cause=97					
SIP Parameter values	BYE: Reason:					
Comments	For an unknown message use	a message type unknowi	n in the SUT.			
Message flows	Mg	MGCF	ISUP			
	IAM →	→	INVITE			
	ACM ←	←	100 Ringing			
	← 200 OK (INVITE)					
	→ ACK					
	??? →					
	REL ←	→	BYE			
	RLC →	+	200 OK (BYE)			

TP number	TP_211_005	Reference	7.2.3.2.16				
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/					
Selection criteria							
Test Purpose name	Call is released to due parame early dialogue	ter compatibility instruction	on 'Release call' received in the				
Test Purpose	Ensure that on receipt of a CPG in the early dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP CANCEL request is sent and a Reason header field is present.						
ISUP Parameter values	CPG: Parameter compatibility REL: Cause=99 or 110	information: Release cal	l indicator=release call				
SIP Parameter values	CANCEL: Reason:						
Comments	For an unknown parameter us	e a parameter type unkno	own in the SUT.				
Message flows	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
	ACM ←	ACM ← 100 Ringing					
	CPG →						
	REL ←	REL ← → CANCEL					
	RLC →	←	200 OK (CANCEL)				
		←	487 Request Terminated				
		→	ACK				

TP number	TP_211_005	Reference	7.2.3.2.16				
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/					
Selection criteria							
Test Purpose name	Call is released to due parame confirmed dialogue	eter compatibility instruction	on 'Release call' received in the				
Test Purpose	Ensure that on receipt of a CPG in the confirmed dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP BYE request is sent and a Reason header field is present						
ISUP Parameter values	CPG: Parameter compatibility REL: Cause=99 or 110	/ information: Release ca	Il 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	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
	ACM ←	←	100 Ringing				
	ANM ←	←	200 OK (INVITE)				
	→ ACK						
	CPG →						
	REL ←	→	BYE				
	RLC →	+	200 OK (BYE)				

6.2 Supplementary Services

6.2.1 Void

6.2.2 Connected line presentation and restriction (COLP/COLR)

TP number	TP_302_001	Reference	7.4.2					
TSS reference	PSTN-SS/COL/	PSTN-SS/COL/						
Selection criteria	NOT PICS 7.3.4/1 AND PICS 7	7.3.1/1 AND PICS 7.3.2/2						
Test Purpose name	The SUT does not invoke the C	COLP service						
Test Purpose	Ensure that on receipt of an IN'							
	service, an IAM is sent and the	•						
	Optional forward call indicators		equested'. A received					
	connected number is not interw							
ISUP Parameter values		call indicators = 'not requeste	d'					
	ANM/CON: Connected numb	•						
SIP Parameter values	200 OK: P-Asserted-Identity	not present						
Comments								
Message flows	Mg	MGCF	ISUP					
	INVITE →	→	IAM					
	100 Trying ←							
	CASE A							
	180 Ringing ←	←	ACM					
	200 OK (INVITE)	←	ANM					
	ACK →							
	CASE B							
	200 OK (INVITE) ← CON							
	ACK →							
		Apply post test routine						

TP number	TP_302_002	Refe	erence		7.4.2			
TSS reference	PSTN-SS/COL	/						
Selection criteria	PICS 7.3.4/1 A	PICS 7.3.4/1 AND PICS 7.3.1/1 AND PICS 7.3.2/2						
Test Purpose name	The SUT does	not invoke the COLF	service present	ation allo	owed			
Test Purpose	The SUT does not invoke the COLP service presentation allowed Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an IAM is sent and the Connected Line Identity Request indicator" field of the Optional forward call indicators parameter of the IAM to 'requested'. A received connected number presentation allowed is interworked. Connected number Nature of Address Indicator equal to - 'national (significant) number' 200 OK INVITE P-Asserted-Identity Add CC (of the country where the SUT is located) to Connected number address signals to construct an E.164 number in the URI. Prefix number with '+' in the format '+ CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to construct an E.164 number in the URI. Prefix number with "+" in the Format '+ CC NDC SN'. Address presentation restriction indicator - 'presentation allowed'							
ISUP Parameter values	IAM:	ader is not present o Optional forward call	indicators = 'not	alue is no requeste	ot equal to ed'	o 'id'		
		ANM/CON: Connected number present						
SIP Parameter values	INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present							
Comments								
Message flows	INVITE 100 Trying CASE A 180 Ringing 200 OK (INVITIACK CASE B 200 OK (INVITIACK	→ ← E) ← →	MGCF	→ ← ←	ACM ANM	ISUP		
		Ar	oply post test ro	outine				

TP_302_003	Reference	7.4.2				
PSTN-SS/COL/	•	•				
PICS 7.3.4/1 AND	PICS 7.3.1/1 AND PICS 7.3.	2/2				
The SUT does not	invoke the COLP service pre	sentation restricted				
Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an IAM is sent and the Connected Line Identity Request indicator" field of the Optional forward call indicators parameter of the IAM to 'requested'. A received connected number presentation restricted is interworked Connected number Nature of Address Indicator equal to - 'national (significant) number' 200 OK INVITE P-Asserted-Identity Add CC (of the country where the SUT is located) to Connected number address signals to construct an E.164 number in the URI. Prefix number with '+' in the format '+ CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to construct an E.164 number in the URI. Prefix number with "+" in the Format '+ CC NDC SN'. Address presentation restriction indicator						
IAM: Optio		'not requested'				
INVITE: P-Asser	INVITE: P-Asserted-Identity present					
Mg INVITE 100 Trying CASE A 180 Ringing 200 OK (INVITE) ACK CASE B 200 OK (INVITE) ACK	 ← ← → 	→ IAM ← ACM ← ANM ← CON				
	PSTN-SS/COL/ PICS 7.3.4/1 AND The SUT does not Ensure that on rec IAM is sent and the call indicators para presentation restric Connected numb Nature of Address - 'national (sign 200 OK INVIT Add CC (of the signals to con CC NDC SN.' - 'international r 200 OK INVIT Map complete the URI. Prefix Address presentation r Privacy: id IAM: Opti ANM/CON: Con INVITE: P-Asser 200 OK: P-Asser Mg INVITE 100 Trying CASE A 180 Ringing 200 OK (INVITE) ACK CASE B 200 OK (INVITE)	PSTN-SS/COL/ PICS 7.3.4/1 AND PICS 7.3.1/1 AND PICS 7.3.2 The SUT does not invoke the COLP service pre Ensure that on receipt of an INVITE request ant IAM is sent and the Connected Line Identity Rec call indicators parameter of the IAM to 'requeste presentation restricted is interworked Connected number Nature of Address Indicator equal to - 'national (significant) number' 200 OK INVITE P-Asserted-Identity Add CC (of the country where the SUT is lo signals to construct an E.164 number in the CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address the URI. Prefix number with "+" in the Form Address presentation restriction indicator - 'presentation restricted' Privacy: id IAM: Optional forward call indicators = ANM/CON: Connected number present INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present 200 OK: P-Asserted-Identity present Wg INVITE OK: P-Asserted-Identity present CASE A 180 Ringing 200 OK (INVITE) ACK CASE B 200 OK (INVITE) ACK CASE B 200 OK (INVITE) ACK	PSTN-SS/COL/ PICS 7.3.4/1 AND PICS 7.3.1/1 AND PICS 7.3.2/2 The SUT does not invoke the COLP service presentation restricted Ensure that on receipt of an INVITE request ant the SUT invokes the COLP servil IAM is sent and the Connected Line Identity Request indicator" field of the Option call indicators parameter of the IAM to 'requested'. A received connected number presentation restricted is interworked Connected number Nature of Address Indicator equal to - 'national (significant) number' 200 OK INVITE P-Asserted-Identity Add CC (of the country where the SUT is located) to Connected number add signals to construct an E.164 number in the URI. Prefix number with '+' in the CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to construct an E.164 nur the URI. Prefix number with "+" in the Format '+ CC NDC SN'. Address presentation restriction indicator - 'presentation restricted' Privacy: id IAM: Optional forward call indicators = 'not requested' ANM/CON: Connected number present INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present 200 OK: P-Asserted-Identity present CASE A 180 Ringing CASE A 180 Ringing CASE B 200 OK (INVITE) CASE B 200 OK (INVITE) CASE B 200 OK (INVITE)			

TP number	TP 302 004	le le	Reference	7.4.2
TSS reference	PSTN-SS/COL/	I	Verer erree	1.4.2
Selection criteria	PICS 7.3.1/1 AND	DICS 7 3 2/2		
Test Purpose name	COL request is se		rtod.	
				no Identity Degreet indicator in the
Test Purpose	Optional Forward	Call Indicators		ne Identity Request indicator in the of requested, no P-Asserted-Identity present
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg		MGCF	ISUP
	IAM	→	→	INVITE
			←	100 Trying
	CASE A			
	ACM	←	←	180 Ringing
	ANM	←	←	200 OK (INVITE)
			→	ACK
	CASE B			
	ANM	←	←	200 OK (INVITE)
			→	ACK
			Apply post test rout	ine

TP number	TP_302_005	Refere	nce	7.4.2	
TSS reference	PSTN-SS/COL/				
Selection criteria	PICS 7.3.1/1 AND	D PICS 7.3.2/2			
Test Purpose name	COL request is se	et to requested Termin	nating identity re-	ceived in a 180 response	
Test Purpose				ne Identity Request indicator in the	
				quested, the P-Asserted-Identity	
		visional response is se			
		cted number parame			
		nplete indicator equal		(5)	
			ISDN/Telephony	(Recommendation E.164 [i.1])'	
	Nature of Add		1 00 (
				ne country where MGCF is located	
		nal (significant) numbe		same country then set to	
	else set to	, ,	•1		
	0.00	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					
Comments					
Message flows	Mg		GCF	ISUP	
	IAM	→	→	INVITE	
		_	←	100 Trying	
	ACM	←	(180 Ringing	
	ANM	←	←	200 OK (INVITE)	
			→	ACK	
		Apply	/ post test routi	ne	

TP number	TP 302 005	Reference	7.4.2			
TSS reference	PSTN-SS/COL/	Reference	1.4.2			
Selection criteria		PICS 7.3.1/1 AND PICS 7.3.2/2				
Test Purpose name		COL request is set to requested Terminating identity received in a 200 OK response Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the				
Test Purpose						
		Optional Forward Call Indicators parameter is set to 'requested', the P-Asserted-Identity received in a 200 OK response is sent in the ANM .				
			ANW.			
		ed number parameter ete indicator equal to 'Co	malatal			
			Telephony (<i>Recommendation E.164</i> [i.1])'			
	Nature of Addres		relephony (Neconimendation L. 104 [i. 1])			
			ne CC of the country where MGCF is located			
			ited in the same country then set to			
		(significant) number"	aca in the same country then set to			
	else set to	(Significant) Hamber				
	0.00 001 10	onal 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		-				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	→	→ INVITE			
			← 100 Trying			
	ACM	←	← 180 Ringing			
	ANM	←	← 200 OK (INVITE)			
			→ ACK			
	Apply post test rou	ıtine				
•	•	·	<u>-</u>			

TP number	TP_302_005	Reference	7.4.2
TSS reference	PSTN-SS/COL/		
Selection criteria	PICS 7.3.1/1 AND PICS	7.3.2/2	
Test Purpose name	COL request is set to req	uested Terminating identity red	ceived in a 200 OK response
Test Purpose	COL request is set to requested Terminating identity received in a 200 OK response Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', if no provisional response was received the P-Asserted-Identity received in a 200 OK response is sent in the CON. Coding of Connected number parameter Number incomplete indicator equal to 'Complete' Numbering Plan Indicator equal to 'ISDN/Telephony (Recommendation E. 164 [i.1])' Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number" else set to "international number" Address Presentation Restricted Indicator derived from the Privacy header according		
ISUP Parameter values	the mapping as described in table 6.2.2-1 IAM: Optional Forward Call Indicators Connected Line Identity Request = requested CON: Connected number Presentation restriction Privacy_VA		
SIP Parameter values			
Comments			
Message flows		MGCF → ← ← →	ISUP INVITE 100 Trying 200 OK (INVITE) ACK

TP number	TP 302 005	Reference	7.4.2		
TSS reference	PSTN-SS/COL/	<u> </u>	<u> </u>		
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.1/1 AND PICS 7.3.2/2			
Test Purpose name	COL request is se	COL request is set to requested Terminating identity received in a 200 OK response			
Test Purpose	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', the P-Asserted-Identity received in a 200 OK response is sent in the ANM. Coding of Connected number parameter Number incomplete indicator equal to 'Complete' Numbering Plan Indicator equal to 'ISDN/Telephony (Recommendation E. 164 [i.1])' Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number" else set to "international number" Address Presentation Restricted Indicator derived from the Privacy header according				
ISUP Parameter values	the mapping a IAM: Optional F	IAM: Optional Forward Call Indicators			
	Connected Line Identity Request = requested ANM: Connected number				
	Preser	Presentation restriction Privacy_VA			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→	→ INVITE		
			← 100 Trying		
	ACM	←	← 180 Ringing		
	ANM	←	€ 200 OK (INVITE)		
		_	→ ACK		
	Apply post test i	routine			

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

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

6.2.3 Malicious call identification

TP number	TP_303_001	Reference	7.4.4	
TSS reference	PSTN-SS/MCID/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/3	3		
Test Purpose name	MCID request before ACM			
Test Purpose	Ensure that a MCID request before an ACM received in an ISUP IDR is discarded without disrupt the call setup procedure. The sending of an IRS is optional			
ISUP Parameter values		-		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→	IAM	
	100 Trying ←			
		←	IDR	
	CASE A	→	IRS	
	CASE B			
		Apply post test routine		

TP number	TP_303_002	Reference	7.4.4	
TSS reference	PSTN-SS/MCID/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/3	3		
Test Purpose name	MCID request after ACM			
Test Purpose	Ensure that a MCID request after an ACM received in an ISUP IDR is discarded without disrupt the call setup procedure. The sending of an IRS is optional			
ISUP Parameter values		<u>-</u>		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→	IAM	
	100 Trying ←			
	ACM ←	←	180 Ringing	
		←	IDR	
	CASE A	→	IRS	
	CASE B			
	Apply post test routine			

6.2.4 Subaddressing (SUB)

TP number	TP_304_001	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/4	4		
Test Purpose name	isub parameter in the To heade	er is mapped into Called party S	Subaddress	
Test Purpose	Ensure that on receipt of an initial INVITE request, an IAM is sent. The isub parameter			
	present in the To header is mapped into the Called party Subaddress covered in an			
	Access Transport parameter in			
	values 'nsap-ia5', 'nsap-bcd' or	'nsap' are relevant for mapping	9	
	Encoding of the Subaddress in	the IAM:		
	Type of Subaddress='NSAP'			
	Subaddress digits derived from	the uric of the isub parameter		
ISUP Parameter values	IAM: Access Transport			
	Called party subadd	ress		
	Type of Subaddress=NSAP			
	Subaddress digits derived from the uric of the isub parameter			
SIP Parameter values	INVITE: To:			
	isub			
	uric Subaddress digits			
	isub-encoding	g: Not present		
		nsap-ia5		
		nsap-bcd		
		nsap		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→	IAM	
	100 Trying ←			
		Apply post test routine		

TP number	TP_304_002	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/4	1		
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 isub-encoding parameter is other then 'nsap-ia5', 'nsap-bcd' or 'nsap'			
ISUP Parameter values				
SIP Parameter values	INVITE: To:			
	isub			
	uric Subaddress digits			
	isub-encoding	g: <any token=""></any>		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→	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 7.3.1/1 AND PICS 7.3.2/4	1		
Test Purpose name	isub parameter in the P-Asserte	ed-Identity header is mapped	into Calling party Subaddress	
Test Purpose	Ensure that on receipt of an initial INVITE request, an IAM is sent. The isub parameter present in the P-Asserted-Identity header is mapped into the Calling party Subaddress covered in an Access Transport parameter in the sent IAM. If the isub-encoding parameter is present, the values 'nsap-ia5', 'nsap-bcd' or 'nsap' are relevant for mapping			
	Encoding of the Subaddress:			
	Type of Subaddress='NSAP'			
	Subaddress digits derived from	the uric of the isub paramete	r	
ISUP Parameter values	IAM: Access Transport			
	Calling party subado	Iress		
	Type of Subaddr			
		s derived from the uric of the	isub parameter	
SIP Parameter values	INVITE: P-Asserted-Identity:			
	isub			
	uric Subaddress digits			
	isub-encoding	g: Not present		
		nsap-ia5		
		nsap-bcd		
		nsap		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	→	IAM	
	100 Trying ←			
		Apply post test routine		

TP number	TP_304_004	Referen	ce	7.4.5.2	
TSS reference	PSTN-SS/SUB/	•		•	
Selection criteria	PICS 7.3.1/1 AN	D PICS 7.3.2/4			
Test Purpose name	isub parameter i	n the P-Asserted-Identit	y header in the INVI	TE is not mapped	
Test Purpose	present in the P-	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 isub-encoding parameter is other then 'nsap-ia5', 'nsap-bcd' or 'nsap'			
ISUP Parameter values					
SIP Parameter values	INVITE: P-Ass	erted-Identity:			
	isı	ab			
	uric Subaddress digits				
		isub-encoding: <any th="" to<=""><th>oken></th><th></th></any>	oken>		
Comments					
Message flows	Mg		MGCF	ISUP	
	INVITE	→	→	IAM	
	100 Trying	←			
		Apply	post test routine		

TP number	TP_304_005	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	4			
Test Purpose name	Connected party Subaddress P-Asserted-Identity header in		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 su	baddress			
	Type of Subadd	ress=NSAP			
	Subaddress dig	Subaddress digits			
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric digits de	rived from the Connected part	y Subaddress digits		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	· -	IAM		
	180 Ringing	· ←	ACM		
	200 OK (INVITE)	· ←	ANM		
	ACK -	•			
	Apply post test routine				

TP number	TP_304_006	Reference	7.4.5.2			
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	' 4				
Test Purpose name	Connected party Subaddress	n 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	Mg INVITE 180 Ringing 200 OK (INVITE) ACK	• •	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 7.3.1/1 AND PICS 7.3.2/4		
Test Purpose name	Mapping of Called Party subaddress in the IAM into isub parameter in the To header in the INVITE		
Test Purpose	Ensure that on receipt of an IAM containing a Called party subaddress in the Access Transport parameter, an initial INVITE is sent. The Called party subaddress is mapped into an isub parameter present in the To header in the INVITE if the Type of number of the subaddress is set to 'NSAP'		
ISUP Parameter values	IAM: Access Transport Called party subaddress Type of Subaddress=NSAP Subaddress digits		
SIP Parameter values	INVITE: To: isub uric digits derived from the Called party Subaddress digits		
Comments		-	
Message flows	Mg	MGCF	ISUP
	IAM	→	→ INVITE
	← 100 Trying		
	Apply post test routine		

TP number	TP_304_008	Re	eference		7.4.5.3
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 7.3.1/1 AND F	PICS 7.3.1/1 AND PICS 7.3.2/4			
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		•			
Comments					
Message flows	Mg IAM	→	MGCF Apply post test r	→ ← routine	ISUP INVITE 100 Trying

TP number	TP_304_009	Reference	7.4.5.3
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 7.3.1/1 AND F	PICS 7.3.2/4	
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 P-Asserted-Identity header in the INVITE if the Type of number of the subaddress is not equal to 'NSAP'		
ISUP Parameter values	IAM: Access Transport Calling party subaddress Type of Subaddress=NSAP Subaddress digits		
SIP Parameter values	INVITE: P-Asserted-Identity: isub uric digits derived from the Calling party Subaddress digits		
Comments			
Message flows	Mg IAM	MGCF → Apply post test ro	ISUP → INVITE ← 100 Trying outine

TP number	TP_304_009	Reference	7.4.5.3
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/4		
Test Purpose name	No mapping of Calling Party subaddress in the IAM		
Test Purpose	Ensure that on receipt of an IAM containing a Calling party subaddress in the Access Transport parameter, an initial INVITE is sent. The Calling party subaddress is not mapped into an isub parameter present in the P-Asserted-Identity header in the INVITE if the Type of number of the subaddress is not equal to 'NSAP'		
ISUP Parameter values	IAM: Access Transport Calling party subaddress Type of Subaddress not NSAP Subaddress digits		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→ ← Apply post test routine	INVITE 100 Trying

TP number	TP 304 009	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/	Reference	1.4.0.0	
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/4			
Test Purpose name	Mapping of isub parameter in the 200 OK into the Connected party subaddress in the ANM			
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK			
	(INVITE), an ANM is ser	(INVITE), an ANM is sent and the received Subaddress is mapped in the Connected party		
	subaddress present in the	ne Access Transport param	eter in the ANM. If the isub-encoding	
	parameter is present, the	e values 'nsap-ia5', 'nsap-bo	cd' or 'nsap' are relevant for mapping	
ISUP Parameter values	ANM: Access Transpor		· · · ·	
	Connected pa	arty subaddress		
		ubaddress=NSAP		
		ss digits derived from the u	ric of the isub parameter	
SIP Parameter values	200 OK: P-Asserted-Identity:			
	isub			
	uric Subaddress digits			
		isub-encoding: Not present		
	1000 0	nsap-ia5		
	nsap-bcd			
	nsap			
Comments		Ποαρ		
Message flows	Mg	MGCF	ISUP	
Wessage nows	IAM	→	→ INVITE	
		=		
	ACM	(1 100 1 111 1911 19	
	ANM	←	← 200 OK (INVITE)	
			→ ACK	
		Apply post test re	outine	

TP number	TP_304_009	Reference	7.4.5.3
TSS reference	PSTN-SS/SUB/		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/4		
Test Purpose name	Mapping of isub parameter in the 200 OK into the Connected party subaddress in the ANM		
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK (INVITE), an ANM is sent and the received Subaddress is not mapped in the Connected party subaddress present in the Access Transport parameter in the ANM If the isub-encoding parameter is present and the value is not equal to 'nsap-ia5', 'nsap-bcd' or 'nsap'		
ISUP Parameter values		•	•
SIP Parameter values	200 OK: P-Asserted-Identity:		
	isub-encoding: Not nsap-ia5, nsap-bcd, nsap		
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
	ACM ←	←	180 Ringing
	ANM ←	←	200 OK (INVITE)
	→ ACK		
		Apply post test routine	

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

TP number	TP_305_001	Reference	7.4.6.2.2
Tr Humber	11 _303_001	Kelefelice	table 7.4.6.2.2.2
TSS reference	PSTN-SS/CDIV/	l	table 1.4.0.2.2.2
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5		
Test Purpose name	Mapping of 181 hi-targeted-to-uri into early ACM Redirection number and Redirecting		
Tool I diposo name	Reason	rgotod to dir into odiny 7 towi 10	San oction marrison and recaireding
Test Purpose	 Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The called party status is set to 'no indication'. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number: If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string and sent in the Address signal of the Redirection number. If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged and sent in the Address signal of the Redirection number. The Redirecting reason in the Call Diversion Information parameter is set as indicated in 		
	table 6.2.5-1		
ISUP Parameter values	ACM: Called party status=no indication Generic Notification call is diverting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry Call Diversion Information Redirecting reason= Redirecting_Reason		
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1.1</sip:any></sip:any>		
	<sip:any proper="" uri="">; index=1.2</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	→	→ INVITE
	ACM	←	← 181 Call Is Being Forwarded
		Apply post test r	outine

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

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

TP number	TP_305_002	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	•		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	PICS 7.3.1/1 AND PICS 7.3.2/5		
Test Purpose name	Mapping of 181 Privacy heade	Mapping of 181 Privacy header into early ACM Notification subscription options		
Test Purpose	Ensure that on receipt of 181 (
	ACM is sent. The called party			
	The Notification subscription o			
	according the Privacy header	n the message body as ind	icated in table 6.2.5-2	
ISUP Parameter values	ACM: Called party status=no indication			
	Call Diversion Informat	Call Diversion Information		
	Notification subscription options=SUBS_options			
SIP Parameter values	181:			
	Privacy: Priv-value			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1</sip:any>			
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
_	IAM →	→	NVITE	
	ACM ←	+ '	181 Call Is Being Forwarded	
	Apply post test routine			

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

CAUSE	Priv-value	SUBS_options
VA_01	history	presentation not allowed
VA_02	session	presentation not allowed
VA_03	header	presentation not allowed
VA 04	None or absent	Presentation allowed with redirection number

TP number	TP 305 003	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 7.3.1/1 AND PIC	PICS 7.3.1/1 AND PICS 7.3.2/5		
Test Purpose name	Mapping of 181 escap	Mapping of 181 escaped Privacy header into early ACM Notification subscription options		
Test Purpose		Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy		
	header field in the last	t hi-targeted-to-uri, an ACM is	s sent. The called party status is set to	
	'no indication'.			
	The Notification subso	cription options in the Call Div	version Information parameter is set	
	according the escape	d Privacy header in the last H	listory entry as indicated in table 6.2.5-3	
ISUP Parameter values	ACM: Called party status=no indication			
	Call Diversion Information			
	Notification subscription options=SUBS_options			
SIP Parameter values	181:	181:		
	History-Info:			
	<sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any prope<="" th=""><th>r URI?Privacy=<i>Priv-value</i>&F</th><th>Reason=SIP;cause=any>; index=1.1</th></sip:any>	r URI?Privacy= <i>Priv-value</i> &F	Reason=SIP;cause=any>; index=1.1	
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments	Privacy and Reason h	Privacy and Reason header can appear in reverse order		
Message flows	ISUP	MGCF	Mg	
	IAM	→	→ INVITE	
	ACM	←	← 181 Call Is Being Forwarded	
		Apply post test	S .	

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	F	Reference	7.4.6.2.2	
				table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.2/5			
Test Purpose name	Mapping of 181 P	rivacy header i	into early ACM Redirec	tion number restriction	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, an ACM is sent. The called party status is set to 'no indication'. The Redirection number restriction is set according the Privacy header in the message body as indicated in table 6.2.5-4				
ISUP Parameter values	ACM: Called party status=no indication Redirection number restriction= PRES_restr				
SIP Parameter values	181: Privacy: Priv-value History-Info: <sip:any proper="" uri?="">; index=1, <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1 <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments					
Message flows	ISUP		MGCF	Mg	
	IAM	→	→	INVITE	
	ACM ← 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 7.3.1/1 AND PIC	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 181 escape	ed Privacy header into early	ACM Redirection number restriction		
Test Purpose	Ensure that on receipt	of 181 (Call Is Being Forward	ded), an ACM is sent. The called party		
	status is set to 'no indic	cation'.			
	The Redirection number	er restriction is set according	the escaped Privacy header in the last		
	History entry as indicat	History entry as indicated in table 6.2.5-4			
ISUP Parameter values	ACM: Called party status=no indication				
	Redirection number restriction= PRES_restr				
SIP Parameter values	181:				
	History-Info:				
	<sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri?privacy="Priv-value&Reason=SIP;cause=any">; index=1.1</sip:any></pre>				
	<sip:any proper<="" th=""><th>· URI>; index=1.2</th><th></th></sip:any>	· URI>; index=1.2			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	→	→ INVITE		
	ACM	←	← 181 Call Is Being Forwarded		
	Apply post test routine				

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

CAUSE	Priv-value	PRES_restr
VA_01	history	Presentation restricted
VA_02	session	Presentation restricted
VA_03	header	Presentation restricted
VA 04	None or absent	Presentation allowed or absent

TP number	TP_305_006	Reference	7.4.6.2.2		
			table 7.4.6.2.2.2,		
			table 7.4.6.2.2.7		
TSS reference	PSTN-SS/CDIV/				
Selection criteria		PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri into CPG Redirection number and Redirecting Reason				
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The Event indicator				
	is set to 'Progress'. The History-Info entry following the last History-Info entry containing a				
		Reason header is mapped into the Redirection number:			
			cated: Nature of address indicator		
	` •	icant) number', the countr	ry code is removed from the digit		
	string	agual the aguatry and wh	ere the SUT is located: Nature of		
	address indicator is set to ' international number ' the digit string is used unchanged. The Redirecting reason in the Call Diversion Information parameter is set as indicated in				
	Itable 6.2.5-5				
ISUP Parameter values	CPG: Event=Progress OR				
	Event=Redirecting_R	eason			
	Generic Notification				
	call is diverting				
	Redirection number				
	Derived from the la	st History-Info entry			
	Call Diversion Information				
		= Redirecting_Reason			
SIP Parameter values	181:				
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>				
			use=CAUSE_value>; index=1.1		
_	<sip:any proper="" uri="">; index=1.2</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	→	INVITE		
	ACM ←	(180 Ringing		
	CPG ← 181 Call Is Being Forwarded				
	Apply post test routine				

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

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

TP number	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 7.3.5/1 AND PICS 7.3.1/	PICS 7.3.5/1 AND PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri escaped Reason header into CPG Event indicator				
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The Event indicator				
	is set to 'Redirecting_Reason				
	following the last History-Info e	ntry containing a Reason he	ader is mapped into the		
	Redirection number:				
			ed: Nature of address indicator		
	is set to 'national (signific	cant) number', the country c	ode is removed from the digit		
	string				
	If the country code is not equal the country code where the SUT is located: Nature of				
			digit string is used unchanged		
ISUP Parameter values	CPG: Event=Redirecting_Re	U =			
	Generic Notification				
	call is diverting				
	Redirection number				
OID D	Derived from the last History-Info entry				
SIP Parameter values	181:	an LIDL sinday 4			
	History-Info: <sip:any prop<="" th=""><th></th><th>CALICE value sinder 4.4</th></sip:any>		CALICE value sinder 4.4		
	<pre><sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1.1</sip:any></pre>				
Comments	<sip:any proper="" uri="">; index=1.2</sip:any>				
••••••	ISUP MGCF Ma				
Message flows	IAM +		Mg IVITE		
	ACM +		· · · · · —		
	CPG +		80 Ringing		
	Apply post test routine				

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

	CAUSE_value	Redirecting_Reason
VA_01	486	User busy
VA 02	408	No reply

TP number	TP 305 008	Reference	7.4.6.2.2			
			table 7.4.6.2.2.4			
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of 181 F	Privacy header into CPG Notif	cation subscription options			
Test Purpose	Ensure that on re	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a				
		Event indicator is set to 'Prog				
			Diversion Information parameter is set			
			ody as indicated in table 6.2.5-7			
ISUP Parameter values	CPG: Event=Progress					
	Call Diversion Information					
	Notification subscription options=SUBS_options					
SIP Parameter values	181:					
	Privacy: Priv-value					
	History-Info:	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1.1</sip:any>					
_		<sip:any proper="" uri="">; index=</sip:any>	:1.2			
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	→	→ INVITE			
	ACM	←	 180 Ringing 			
	CPG	←	 181 Call Is Being Forwarded 			
	Apply post test routine					

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

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

TP number	TP_305_009	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5	5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notifica	tion subscription options	
Test Purpose	Ensure that on receipt of 181 (
	header field in the last hi-target	ted-to-uri, a CPG is sent. Th	e Event indicator is set to	
	'Progress'.			
	The Notification subscription or			
	according the escaped Privacy	header in the last History e	ntry as indicated in table 6.2.5-8	
ISUP Parameter values	CPG: Event=Progress			
	Call Diversion Information			
	Notification subscription options=SUBS_options			
SIP Parameter values	181:			
	History-Info:			
	<sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri?privacy="Priv-value&?Reason=SIP;cause=any">; index=1.1</sip:any></pre>			
	<sip:any proper="" uri="">; ii</sip:any>	ndex=1.2		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →		IVITE	
	ACM ← 180 Ringing			
	CPG ← 181 Call Is Being Forwarded			
	Apply post test routine			

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

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

TP number	TP_305_010	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	['] 5		
Test Purpose name	Mapping of 181 Privacy heade	er into CPG Redirection numb	per 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 set to 'Progress'.			
	The Redirection number restriction is set according the Privacy header in the message body as indicated in table 6.2.5-9			
ISUP Parameter values	CPG: Event=Progress Redirection number restriction= PRES_restr			
SIP Parameter values	181:			
	Privacy: Priv-value			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1</sip:any>			
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ IN	VITE	
	ACM ←	← 18	80 Ringing	
	CPG ←	← 18	31 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 7.3.1/1 AND PICS 7.3.2/5	5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Redirection	on number restriction	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), an <i>i</i>	ACM is sent. The called party	
	status is set to 'no indication'.			
	The Redirection number restric	tion is set according the esca	ped Privacy header in the last	
	History entry as indicated in tal	ole 6.2.5-9		
ISUP Parameter values	CPG: Event=Progress			
	Redirection number res	triction= PRES_restr		
SIP Parameter values	181:			
	History-Info:			
	<sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any privacy="Priv-value&Reason=SIP;cause=any" proper="" uri?="">; index=1.1</sip:any>			
	<sip:any proper="" uri="">; ir</sip:any>	ndex=1.2		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ IN\	/ITE	
	ACM ←	← 180	Ringing Ringing	
	CPG ←		Call Is Being Forwarded	
	Apply post test routine			

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

CAUSE	Priv-value	PRES_restr
VA_01	history	Presentation restricted
VA_02	session	Presentation restricted
VA_03	header	Presentation restricted
VA 04	None or absent	Presentation allowed or absent

TP number	TP_305_012	Reference	7.4.6.2.2
			table 7.4.6.2.2.2,
			table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 7.3.1/1 AN	D PICS 7.3.2/5	
Test Purpose name	Mapping of 180 hi-targeted-to-uri into ACM Redirection number and Redirecting Reason		
Test Purpose	 Ensure that on receipt of 180 (Ringing) an ACM is sent. The called party status is set to 'subscriber free'. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number: If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged. The Redirecting reason in the Call Diversion Information parameter is set as indicated in 		
	table 6.2.5-10		
ISUP Parameter values	Generic N call is Redirection Derive Call Diver	rty status=subscriber free Notification diverting on number ed from the last History-Info rsion Information ecting reason= Redirecting	·
SIP Parameter values	180: History-Info:	<sip:any proper="" uri="">; inde <sip:any proper="" uri?reas<br=""><sip:any proper="" uri="">; inde</sip:any></sip:any></sip:any>	on=SIP;cause= CAUSE_value >; index=1.1
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	→	→ INVITE
	ACM	←	← 180 Ringing
	Apply post test routine		

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

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

TP number	TD 205 042	Refere	200	7.4.6.2.2	
i F number	TP_305_013	Keiele	ence	7.4.6.2.2	
				table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AN	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 180 I	Privacy header into A	CM Notification s	ubscription options	
Test Purpose	Ensure that on re	eceipt of 180 (Ringing)) containing a Pri	vacy header in the message body,	
-	an ACM is sent.	The called party statu	s is set to 'subsci	riber free'.	
	The Notification	subscription options in	the Call Diversion	on Information parameter is set	
				ndicated in table 6.2.5-11	
ISUP Parameter values	ACM: Called pa	ACM: Called party status=subscriber free			
	Call Diver	Call Diversion Information			
	Notific	ation subscription opt	ions=SUBS_opt	ions	
SIP Parameter values	180:				
	Privacy: Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	,			use=any value ; index=1.1	
		<sip:any proper="" th="" uri:<=""><th></th><th>,,</th></sip:any>		,,	
Comments					
Message flows	ISUP MGCF Mg			Mg	
	IAM → INVITE				
	ACM ← 180 Ringing				
	Apply post test routine				

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

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

TP number	TP 305 014	Reference	7.4.6.2.2		
			table 7.4.6.2.2.4		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of 180 escaped Priva	Mapping of 180 escaped Privacy header into ACM Notification subscription options			
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, an ACM is sent. The called party status is set to 'subscriber free'. The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-12				
ISUP Parameter values	ACM: Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS_options				
SIP Parameter values	180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" privacy="Priv-value&Reason=SIP;" proper="" uri?="">; index=1.1 <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments	, , , , , , , , , , , , , , , , , , , ,				
Message flows	ISUP MGCF Mg				
_	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	Apply post test routine				

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

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

TP number	TP 305 015	Reference	e	7.4.6.2.2		
				table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AN	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of 180	Privacy header into ACM	Redirection r	number restriction		
Test Purpose	Ensure that on r	eceipt of 180 (Ringing) c	ontaining a Pr	ivacy header in the message body,		
	an ACM is sent.	The called party status is	set to 'subsc	riber free'.		
	The Redirection	number restriction is set	according the	Privacy header in the message		
	body as indicate	d in table 6.2.5-13				
ISUP Parameter values	ACM: Called pa	rty status=subscriber fre	Э			
	Redirection	on number restriction= P	RES_restr			
SIP Parameter values	181:	181:				
	Privacy: Priv	Privacy: Priv-value				
	History-Info:	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
		<sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1</sip:any>				
		<sip:any proper="" uri="">;</sip:any>	ndex=1.2			
Comments						
Message flows	ISUP	MG	CF	Mg		
	IAM → INVITE					
	ACM ← 180 Ringing					
		Apply post test routine				

TP number	TP 305 016	Reference	7.4.6.2.2		
	555_5.5		table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/	•			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of 180 escaped Pr	ivacy header into ACM Redi	rection number restriction		
Test Purpose			caped Privacy header in the last hi-		
		ent. The called party status i			
	The Redirection number res	striction is set according the	escaped Privacy header in the last		
	History entry as indicated in	table 6.2.5-13			
ISUP Parameter values	ACM: Called party status=subscriber free				
	Redirection number	restriction= PRES_restr			
SIP Parameter values	181:				
	History-Info:				
	<sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri?privacy="Priv-value?Reason=SIP;cause=any"> ; index=1.1</sip:any></pre>				
	<sip:any proper="" th="" uri:<=""><th>>; index=1.2</th><th></th></sip:any>	>; index=1.2			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	Apply post test routine				

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

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

TP number	TP_305_017	Reference	7.4.6.2.2			
Ti Hamber	11 _303_017	Reference	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/		lable 7.4.6.2.2.9			
Selection criteria)/F				
	PICS 7.3.1/1 AND PICS 7.3.2	Mapping of 180 hi-targeted-to-uri into CPG Redirection number and Redirecting Reason				
Test Purpose name						
Test Purpose	Ensure that on receipt of 180 (Ringing) a CPG is sent. The Event indicator is set to					
	'ALERTING'. The History-Info					
	Reason header is mapped in					
			cated: Nature of address indicator			
	is set to 'national (signi	f icant) number ', the count	ry code is removed from the digit			
	string					
	 If the country code is not 	equal the country code wh	nere the SUT is located: Nature of			
	address indicator is set t	o ' international number ' t	he digit string is used unchanged.			
	The Redirecting reason in the Call Diversion Information parameter is set as indicated in					
	table 6.2.5-14		•			
ISUP Parameter values	CPG: Event=ALERTING					
	Generic Notification	Generic Notification				
	call is diverting					
	Redirection number					
	Derived from the last History-Info entry					
	Call Diversion Information					
	Redirecting reason	n= Redirecting_Reason				
SIP Parameter values	181:					
	History-Info: <sip:any pr<="" th=""><th>oper URI>; index=1,</th><th></th></sip:any>	oper URI>; index=1,				
			use=CAUSE_value>; index=1.1			
	<sip:any proper="" uri="">; index=1.2</sip:any>					
Comments		•				
Message flows	ISUP	MGCF	Mg			
	IAM →	→	INVITE			
	ACM ←	+	181 Call Is Being Forwarded			
	CPG ←	←	180 Ringing			
		Apply post test routi	0 0			
	, ipp.) poor toor rounit					

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_018	Reference	7.4.6.2.2		
			table 7.4.6.2.2.4		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of 180 Pri	vacy header into CPG Notification	n subscription options		
Test Purpose	Ensure that on rece	eipt of 180 (Ringing) containing a	Privacy header, a CPG is sent. The		
	Event indicator is s	et to 'ALERTING'.			
			rsion Information parameter is set		
	according the Priva	acy header in the message body a	as indicated in table 6.2.5-15		
ISUP Parameter values	CPG: Event=ALEF	RTING			
	Call Diversion	on Information			
	Notificati	ion subscription options= SUBS_c	ptions		
SIP Parameter values	180:				
	Privacy: Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1</sip:any></pre>				
	<	sip:any proper URI>; index=1.2			
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	ACM ← 181 Call Is Being Forwarded				
	CPG ← 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/	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND P	ICS 7.3.2/5			
Test Purpose name	Mapping of 180 esca	aped Privacy header into CPG	Notification subscription options		
Test Purpose	Ensure that on recei	pt of 180 (Ringing) containing a	in escaped Privacy header field in the		
		i, a CPG is sent. The Event ind			
			ersion Information parameter is set		
		ed Privacy header in the last H	story entry as indicated in		
	table 6.2.5-16				
ISUP Parameter values	CPG: Event=ALER				
	Call Diversion				
		on subscription options= SUBS _	options		
SIP Parameter values	180:				
	History-Info:				
		per URI>; index=1,			
		•	eason=SIP;cause=any>; index=1.1		
	<sip:any prop<="" th=""><th>per URI>; index=1.2</th><th></th></sip:any>	per URI>; index=1.2			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	→	→ INVITE		
	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	Referenc	e 7.4.6.2.2	
	11 _000_020		table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	L	14510 7.1.0.2.2.0	
	PICS 7.3.1/1 AND PICS 7.3.2/5			
Selection criteria				
Test Purpose name	Mapping of 180 F	Privacy header into CPG	Redirection number restriction	
Test Purpose	Ensure that on re	ceipt of 180 (Ringing) co	ontaining a Privacy header, a CPG is sent. The	
	Event indicator is	set to 'ALERTING'.		
	The Redirection r	number restriction is set	according the Privacy header in the message	
			according the first act mode age	
ISUP Parameter values		body as indicated in table 6.2.5-17 CPG: Event=ALERTING		
	Redirectio	n number restriction= Pf	RES restr	
SIP Parameter values	180:	=		
	Privacy: Priv-value			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1</sip:any></pre>			
		<sip:any proper="" uri="">; in</sip:any>		
Comments		, , , , , , , , , , , , , , , , , , ,		
Message flows	ISUP	MGC	CF Mg	
	IAM	→	→ INVITE	
	ACM	←	← 181 Call Is Being Forwarded	
	CPG	←	← 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 7.3.1/1 AND PICS 7.3.2/9	5		
Test Purpose name	Mapping of 180 escaped Priva	cy header into CPG Redirect	on number restriction	
Test Purpose	Ensure that on receipt of 180 (Ringing), a CPG is sent. The Event indicator is set to 'ALERTING'. The Redirection number restriction is set according the escaped Privacy header in the last			
IOUD Developed	History entry as indicated in tal	ole 6.2.5-17		
ISUP Parameter values	CPG: Event=ALERTING			
	Redirection number res	triction= PRES_restr		
SIP Parameter values	180:			
	History-Info:			
	<pre><sip:any proper="" uri="">; index=1, <sip:any cause="any" privacy="Priv-value&Reason=SIP;" proper="" uri?="">; index=1.1</sip:any></sip:any></pre>			
	<sip:any proper="" uri="">; in</sip:any>	ndex=1.2		
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	→ IN'	VITE	
	ACM ←	← 18	1 Call Is Being Forwarded	
	CPG ←		0 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	Ref	erence	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 7.3.1/1 AN	D PICS 7.3.2/5			
Test Purpose name	Mapping of 200 l	ni-targeted-to-uri in	to ANM Redirection	number	
Test Purpose	Ensure that on receipt of 200 OK (INVITE) an ANM is sent. The History-Info entry following the last History-Info entry in the format +'CC+NDC+SN' containing a Reason header is mapped into the Redirection number:				
	Nature of ac	ldress indicator is s rom the digit string	_	nificant) number', the country code	
			etry code where the et to 'international	SUT is located: number' the digit string is used	
ISUP Parameter values	ANM: Redirection	on number			
		ed from the last His	tory-Info entry		
SIP Parameter values	200: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1 <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments					
Message flows	ISUP		MGCF	Mg	
	IAM	→	→	INVITE	
	ACM	←	←	180 Ringing	
	ANM ← 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 7.3.1/1 AND PI	CS 7.3.2/5		
Test Purpose name	Mapping of 200 Priva	cy header into ANM Redirection	on number restriction	
Test Purpose	Ensure that on receipt of 200 OK (INVITE) containing a Privacy header, an ANM is sent. The Redirection number restriction is set according the Privacy header in the message body as indicated in table 6.2.5-18			
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr			
SIP Parameter values	200: Privacy: Priv-value History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1.1 <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>			
Comments				
Message flows	ISUP IAM ACM ANM	MGCF → ← Apply post test r	Mg → INVITE ← 180 Ringing ← 200 OK INVITE → ACK outine	

TP number	TP 305 024	Reference	7.4.6.2.2		
	555_52.1	110.0.0.0	table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of 200 escaped Privacy header into ANM Redirection number restriction				
Test Purpose	Ensure that on receipt of 200	OK (INVITE), an ANM is sent.			
	The Redirection number restri	ction is set according the esca	ped Privacy header in the last		
	History entry as indicated in ta	ble 6.2.5-18			
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr				
SIP Parameter values	200:				
	History-Info:				
	<sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any privacy="Priv-value&Reason=SIP;cause=any" proper="" uri?="">; index=1.1</sip:any>				
	<sip:any proper="" uri="">; index=1.2</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→ INV	'ITE		
	ACM ←	← 180	Ringing		
	ANM ←	← 200	OK INVITE		
	→ ACK				
	Apply post test routine				

TP number	TP_305_025	Reference	7.4.6.2.2	
			table 7.4.6.2.2.2,	
			table 7.4.6.2.2.10	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 200 hi-targeted-to-	uri into CON Redirection nur	nber	
Test Purpose	Ensure that on receipt of 200 OK (INVITE) a CON is sent. The History-Info entry following the last History-Info entry in the format +'CC+NDC+SN' containing a Reason header is			
	mapped into the Redirection no		3	
	1	code where the SUT is loca	ted:	
			ant) number', the country code	
	is removed from the digit s	• •	,,	
		ntry code where the SUT is	located:	
			nber' the digit string is used	
	unchanged		g. ang ang a ana a	
ISUP Parameter values	CON: Redirection number			
	Derived from the last History-Info entry			
SIP Parameter values	200:			
	History-Info: <sip:any prop<="" th=""><th>per URI>; index=1,</th><th></th></sip:any>	per URI>; index=1,		
	<sip:any prop<="" th=""><th>per URI?Reason=SIP;cause</th><th>=any value>; index=1.1</th></sip:any>	per URI?Reason=SIP;cause	=any value>; index=1.1	
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
_	IAM →	→ IN	IVITE	
	ANM ←	← 20	00 OK INVITE	
		→ A	CK	
	Apply post test routine			

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 7.3.1/1 AND PICS 7.3.2	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 200 Privacy heads	er into CON Redirection no	umber restriction		
Test Purpose			Privacy header, a CON is sent.		
	The Redirection number restri	ction is set according the	Privacy header in the message		
	body as indicated in table 6.2.	5-18			
ISUP Parameter values	CON: Redirection number res	CON: Redirection number restriction= PRES_restr			
SIP Parameter values	200:				
	Privacy: Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any index="1.1</p" proper="" uri?reason="SIP;cause=any" value;=""></sip:any>				
	<sip:any proper="" uri="">; index=1.2</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	ANM ← 200 OK INVITE				
	→ ACK				
	Apply post test routine				

TP number	TP_305_027	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 200 escaped Priva	cy header into CON Redir	ection number restriction	
Test Purpose	Ensure that on receipt of 200 C			
	The Redirection number restric	tion is set according the e	scaped Privacy header in the last	
	History entry as indicated in tal	ole 6.2.5-18		
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr			
SIP Parameter values	200:			
	History-Info:			
	<sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri?privacy="Priv-value&Reason=SIP;cause=any">; index=1.1</sip:any></pre>			
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→	INVITE	
	ANM ←	←	200 OK INVITE	
	→ ACK			
	Apply post test routine			

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

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

TP number	TP_305_028	Reference	7.4.6.2.3			
			table 7.4.6.2.3.1			
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	/5				
Test Purpose name	Mapping of Redirecting number	er Address Signals				
Test Purpose	Redirection Information param present. The value of the second	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The value of the second last hi-targeted-to-uri Value of Redirecting number is mapped from the Redirecting number Address Signals as indicated in table 6.2.5-19				
ISUP Parameter values	Address Signals <a< th=""><th colspan="3">IAM: Redirecting number Nature of Address: NoA_value Address Signals <any appropriate="" value=""> Redirection Information</any></th></a<>	IAM: Redirecting number Nature of Address: NoA_value Address Signals <any appropriate="" value=""> Redirection Information</any>				
SIP Parameter values	History-Info: <sip:any proper="" uri="">; index=1, <sip:value number?reason="SIP;cause=any" of="" redirecting="">; index=1.1, <sip:any proper="" uri="">; index=1.2</sip:any></sip:value></sip:any>					
Comments						
Message flows	ISUP	ISUP MGCF Mg				
	IAM →	IAM → INVITE				
	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		
	000_020		table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of Redirecting num	ber Address presentation rest	ricted 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 PRIV_value is mapped from the Address presentation restricted indicator of the Redirecting number as indicated in table 6.2.5-20				
ISUP Parameter values	IAM: Redirecting number Address presentation restricted indicator: APRI_value Redirection Information Original called number				
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri?privacy="PRIV_value&Reason=SIP;cause=any">; index=1.1, <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE Apply post test routine				

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

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

TP number	TP_305_030	Reference	7.4.6.2.3		
			table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/9	5			
Test Purpose name	Mapping of Redirection Informa	ation 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 PRIV_value 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 indicator=RDIND_value				
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri?privacy="PRIV_value&Reason=SIP;cause=any">; index=1.1, <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → INVITE				
	Apply post test routine				

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

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

TP number	TP_305_031	Reference	7.4.6.2.3	
			table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	75		
Test Purpose name	Mapping of Redirection Inform	ation Redirection counter		
Test Purpose		M containing a Redirecting nur		
		TTE request is sent and a the h		
	parameter of the Redirection of	ounter as indicated in table 6.2	.5-22	
ISUP Parameter values	IAM: Redirection Information	IAM: Redirection Information		
	Redirection counter=RDCONT_value			
SIP Parameter values	INVITE:			
	History-Info: ENTRY_value	ues		
Comments				
Message flows	ISUP	MGCF	Mg	
-	IAM →	→ INV	TE	
	Apply post test routine			

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

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

TP number	TP_305_032		Reference	7.4.6.2.3	
				table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AN	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Mapping of Redi	rection Informa	tion Original redirection	n reason	
Test Purpose	Ensure that on receipt of an IAM containing a Redirection number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Original redirection reason indicator OREAS_value of the Redirection Information is mapped into the cause parameter Cause_value of the first hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.2.5-23				
ISUP Parameter values	IAM: Redirection Information Original redirection reason=OREAS value				
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri?reason="SIP;cause=Cause_value">; index=1,</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE Apply post test routine				

Table 6.2.5-23: Mapping of Original redirection reason into cause parameter in the first Hist-entry

	OREAS_value	Cause_value First 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_033	Reference	7.4.6.2.3	
			table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3	.2/5		
Test Purpose name	Mapping of Redirection Info	mation Redirecting reason		
Test Purpose	Ensure that on receipt of an IAM containing a Redirection number an Original called			
	number and a Redirection Ir	formation parameter, an INV	TTE request is sent. The	
	Redirecting reason indicator	REAS_value of the Redirect	tion Information is mapped into	
	the cause parameter Cause	_value of the second last hi-	targeted-to-uri of the History-Info	
	header in the sent INVITE a	s indicated in table 6.2.5-24	-	
ISUP Parameter values	IAM: Redirection Information			
	Redirecting reason =REAS_value			
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any p<="" th=""><th>roper URI?Reason=SIP;caus</th><th>se=Cause_value>; index=1.1,</th></sip:any>	roper URI?Reason=SIP;caus	se=Cause_value>; index=1.1,	
	<sip:any proper="" uri="">; index=1.2</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
-	IAM → 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 7.3.1/1 AND PICS 7.3.2	/5		
Test Purpose name	Mapping of Called party numb	er Address Signals		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The Called party number is mapped into the last hi-targeted-to-uri of the History-Info header as indicated in table 6.2.5-25			
ISUP Parameter values	IAM: Called party number Nature of Address: NoA_value			
SIP Parameter values	Address Signals INVITE: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

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

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

TP number	TP 305 035	Reference	7.4.6.2.3	
		Trois ones	table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	·	100000000000000000000000000000000000000	
Selection criteria	PICS 7.3.1/1 AND PICS 7.3	3.2/5		
Test Purpose name	Mapping of Original called	number Address Signals		
Test Purpose	Ensure that on receipt of an IAM containing an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The value of the first hi-targeted-to-uri Value of Original called number is mapped from the Original called number Address Signals as indicated in table 6.2.5-26			
ISUP Parameter values	IAM: Original called number Nature of Address: NoA_value Address Signals < Digits >			
SIP Parameter values	INVITE: History-Info: <sip:value called="" number="" of="" original="">; index=1</sip:value>			
Comments				
Message flows	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	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Original called number
VA_02	international number	Add '+' to the Address Signal digits of the Original called number

TP number	TP 305 036	Reference	7.4.6.2.3	
			table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/		·	
Selection criteria	PICS 7.3.1/1 AND PIC	S 7.3.2/5		
Test Purpose name	Mapping of Original ca	lled number Address presenta	ation 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 PRIV_value is mapped from the Address presentation			
IOUD Developed	restricted indicator of the Original called number as indicated in table 6.2.5-27			
ISUP Parameter values	IAM: Original called r		ADDI	
	Address presentation restricted indicator: APRI_value			
		nals <any appropriate="" value=""></any>		
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri?privacy="<b">PRIV_value>; index=1, <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1 <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></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 7.3.1/1 AND PICS 7.3.2/	5		
Test Purpose name	Latest History-Info header field	l entry containing a Reason he	eader is mapped into	
	Redirecting number Nature of	address indicator		
Test Purpose	Ensure that on receipt of an IN	VITE request containing a His	tory-Info header, an IAM is	
	sent and a Redirecting number	r an Original called number an	d a Redirection information	
	parameter is present. The Nat	ure of address indicator of the	ne Redirecting number is	
	mapped from the latest History	-Info header field entry in the	format +'CC+NDC+SN'	
	containing a Reason header as	s indicated in table 6.2.5-28		
ISUP Parameter values	IAM: Redirecting number			
	Nature of address in	ndicator= NoA_value		
SIP Parameter values	INVITE:			
	History-Info: <sip:any pro<="" th=""><th>per URI>; index=1,</th><th></th></sip:any>	per URI>; index=1,		
	<sip:second< th=""><th>I last entry URI?Reason=SIP;</th><th>cause=any>; index=1.1,</th></sip:second<>	I last entry URI?Reason=SIP;	cause=any>; index=1.1,	
	<sip:any pro<="" th=""><th>per URI>; index=1.2</th><th></th></sip:any>	per URI>; index=1.2		
Comments				
Message flows	Mg MGCF ISUP			
-	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

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

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

TP_305_038	Reference	7.4.6.3.2		
		table 7.4.6.3.2.2		
PSTN-SS/CDIV/				
PICS 7.3.1/1 AND PICS 7.3.2/5	5			
Latest History-Info header field	entry containing a Reason he	ader is mapped into		
Redirecting number Address si	gnal			
parameter is present. The Add	ress signal of the Redirecting	number is mapped from the		
latest History-Info header field	entry in the format +'CC+NDC	+SN' containing a Reason		
header as indicated in table 6.2	2.5-29	_		
IAM: Redirecting number				
Address signal deriv	red from the second last Hist-e	entry		
INVITE:				
History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
<sip:second< th=""><th>last entry URI?Reason=SIP;</th><th>cause=any>; index=1.1,</th></sip:second<>	last entry URI?Reason=SIP;	cause=any>; index=1.1,		
<sip:any prop<="" th=""><th>er URI>; index=1.2</th><th></th></sip:any>	er URI>; index=1.2			
Mg MGCF ISUP				
INVITE → IAM				
100 Trying ←				
, ,				
	PSTN-SS/CDIV/ PICS 7.3.1/1 AND PICS 7.3.2/8 Latest History-Info header field Redirecting number Address si Ensure that on receipt of an IN's sent and a Redirecting number parameter is present. The Add latest History-Info header field header as indicated in table 6.2 IAM: Redirecting number Address signal deriv INVITE: History-Info: <sip:any co<="" content="" of="" proposition="" th="" the=""><th>PSTN-SS/CDIV/ PICS 7.3.1/1 AND PICS 7.3.2/5 Latest History-Info header field entry containing a Reason he Redirecting number Address signal Ensure that on receipt of an INVITE request containing a Hissent and a Redirecting number an Original called number and parameter is present. The Address signal of the Redirecting latest History-Info header field entry in the format +'CC+NDC header as indicated in table 6.2.5-29 IAM: Redirecting number Address signal derived from the second last Hister Invite: History-Info: <sip:any proper="" uri="">; index=1, <sip:second <sip:any="" entry="" last="" proper="" uri="" uri?reason="SIP;">; index=1.2 Mg MGCF INVITE Mg MGCF</sip:second></sip:any></th></sip:any>	PSTN-SS/CDIV/ PICS 7.3.1/1 AND PICS 7.3.2/5 Latest History-Info header field entry containing a Reason he Redirecting number Address signal Ensure that on receipt of an INVITE request containing a Hissent and a Redirecting number an Original called number and parameter is present. The Address signal of the Redirecting latest History-Info header field entry in the format +'CC+NDC header as indicated in table 6.2.5-29 IAM: Redirecting number Address signal derived from the second last Hister Invite: History-Info: <sip:any proper="" uri="">; index=1, <sip:second <sip:any="" entry="" last="" proper="" uri="" uri?reason="SIP;">; index=1.2 Mg MGCF INVITE Mg MGCF</sip:second></sip:any>		

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

	Second last entry URI	NoA_value
VA_01		'+CC' is 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 7.3.1/1 AND PICS 7.3.2/5				
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 Address presentation restricted indicator 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	n restricted indicator= APRI_v a			
SIP Parameter values	INVITE: History-Info: <sip:any appropriate="" uri="">; index=1, <sip:any proper="" uri?privacy="PRIV_value&Reason=SIP;cause=any">; index=1.1, <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments					
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM		
	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 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Privacy header is mapped into Redirecting number Address presentation restricted indicator				
Test Purpose	Ensure that on receipt of an 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 Address presentation restricted indicator of the Redirecting number is mapped from the Privacy header of the received INVITE request as indicated in table 6.2.5-30				
ISUP Parameter values	IAM: Redirecting number Address presentation	n restricted indicator= APRI_v a	alue		
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any appropriate="" uri="">; index=1, <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1, <sip:any proper="" uri="">; index=1.2</sip:any></sip:any></sip:any>				
Comments		·			
Message flows	Mg INVITE →	MGCF	ISUP IAM		
	100 Trying		IZAIVI		
	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 7.3.1/1 AND PICS 7	7.3.2/5			
Test Purpose name	Escaped Privacy header	is mapped into Redirection	information Redirecting indicator		
Test Purpose					
			mber and a Redirection information		
			the Redirection information is mapped		
			y-Info header field entry containing a		
	Reason header in the rec	eived INVITE request as in	dicated in table 6.2.5-31		
ISUP Parameter values	IAM: Redirection inform	ation			
	Redirecting inc	dicator=RDIND_value			
SIP Parameter values	INVITE:				
	History-Info:				
	<sip:any appropriate="" uri="">; index=1,</sip:any>				
			Reason=SIP;cause=any>; index=1.1,		
	<sip:any proper="" th="" u<=""><th>RI>; index=1.2</th><th></th></sip:any>	RI>; index=1.2			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	→	→ IAM		
	100 Trying	←			
		Apply post test ro	outine		

TP number	TP 305 042	Reference	7.4.6.3.2	
		1	table 7.4.6.3.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	Privacy header is mapped into Redirection information Redirecting indicator			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is			
			mber and a Redirection information	
			the Redirection information is mapped	
	from the Privacy header	in the received INVITE requ	est as indicated in table 6.2.5-31	
ISUP Parameter values	IAM: Redirection inform	nation		
	Redirecting in	dicator= RDIND_value		
SIP Parameter values	INVITE:			
	Privacy: PRIV_value			
		y appropriate URI>; index=		
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any></pre>			
	<sip:an< th=""><th>y proper URI>; index=1.2</th><th></th></sip:an<>	y proper URI>; index=1.2		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	→	→ IAM	
	100 Trying	←		
	Apply post test routine			

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

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

TP number	TP 305 043	Ref	erence	7.4.6.3.2		
	000_0.0			table 7.4.6.3.2.3		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AN	PICS 7.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Privacy header is	s mapped into Red	lirection information	n 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 Redirecting reason 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	Origin	on information hal redirection rease ecting reason= RE A		vailable		
SIP Parameter values	INVITE: History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>					
Comments		-	,			
Message flows	Mg INVITE 100 Trying	→ ←	MGCF	ISUP → IAM		
	Apply post test routine					

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

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

TP number	TP 305 044	Reference	7.4.6.3.2		
	1		table 7.4.6.3.2.3		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	5			
Test Purpose name	Hi-index is mapped into Redire	ection information Redirection of	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 Redirection counter of the Redirection information is mapped from the hi-index of the last History-Info header field entry in the received INVITE request as indicated in table 6.2.5-33. The number of dots in the hi-index value is equal to the value of the Redirection counter				
ISUP Parameter values	IAM: Redirection information				
	Redirection counter=RDCONT_value				
SIP Parameter values	INVITE: History-Info: ENTRY value	IPS			
Comments	Thotory into: Entre:_vale				
Message flows	Mg MGCF ISUP				
	INVITE ->	→	IAM		
	100 Trying ←				
	Apply post test routine				

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

	ENTRY_values	RDCONT_value
VA_01	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	1
	<sip: called="" number="" party="" represents="" the="">; index=1.1</sip:>	
VA_02	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	2
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1</sip:>	
VA_03	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	3
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1,</sip:></pre>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1</sip:>	
VA_04	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	4
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1,</sip:></pre>	
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:></pre>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1</sip:>	
VA_05	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>	5
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1,</sip:></pre>	
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1.1,</sip:></pre>	
	<pre><sip: any="" proper="" uri;cause="404">; index=1.1.1.1,</sip:></pre>	
	<pre><sip: number;cause="any" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:></pre>	
	<sip: called="" number="" party="" represents="" the="">; index=1.1.1.1.1.1</sip:>	

TP number	TP_305_045	Reference	7.4.6.3.2	
			table 7.4.6.3.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	First History-Info header field e	entry is mapped into Original c	alled number Nature of	
	address indicator	-		
Test Purpose	Ensure that on receipt of an IN			
	sent and a Redirecting 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 6.2.5-34			
ISUP Parameter values	IAM: Original called number			
	Numbering Plan Ind	licator=ISDN (Telephony) num	bering plan	
		(Recommendation E.164 [i.1])		
		ndicator= NoA_value		
SIP Parameter values	INVITE:			
	History-Info: <sip:first en<="" th=""><th></th><th></th></sip:first>			
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,</sip:any></pre>			
	<sip:any pro<="" th=""><th>per URI>; index=1.2</th><th></th></sip:any>	per URI>; index=1.2		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	100 Trying ←	•		
		Apply post test routine		

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

	First entry URI	NoA_value
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 not 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/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/5			
Test Purpose name	First History-Info h	First History-Info header field entry is mapped into Original called Address signal		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Address signal of the Original called number is mapped from the first History-Info header field entry in the format +'CC+NDC+SN' as indicated in table 6.2.5-35.			
ISUP Parameter values	IAM: Original called Numbering Plan Indicator=ISDN (Telephony) numbering plan (Recommendation E.164 [i.1]) Address signal derived from the first Hist-entry			
SIP Parameter values	INVITE: History-Info: <sip:first entry="" uri="">; index=1,</sip:first>			
Comments				
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test r	ISUP → IAM outine	

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

	First entry URI	NoA_value
	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/	•	<u>.</u>
Selection criteria	PICS 7.3.1/1 AND PIC	S 7.3.2/5	
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 Address presentation restricted indicator of the Original called number is mapped from the escaped Privacy header of the first History-Info header field entry as indicated in table 6.2.5-36		
ISUP Parameter values	IAM: Original called Address presentation restricted indicator=APRI value		
SIP Parameter values	INVITE: History-Info: <sip:any appropriate="" uri?privacy="PRIV_value">; index=1,</sip:any>		
Comments	•	71 1 ,	
Message flows	Mg INVITE 100 Trying	MGCF → ←	SUP → IAM
	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 7.3.1/1 AND PICS 7.3.2/5		
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 Address presentation restricted indicator 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		
		n restricted indicator=APRI_va	alue
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>		
Comments			
Message flows	Mg MGCF ISUP		ISUP
INVITE → IAM		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	
	11 _000_040	T.G.G.G.G.G.G	table 7.4.6.3.3.1,	
			table 7.4.6.3.3.3	
TSS reference	PSTN-SS/CDIV/		1.1.0.0.0.0	
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	'5		
Test Purpose name			led) History-Info header	
Test Purpose	Mapping of ACM Redirection number into 181 (Being forwarded) History-Info header Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is			
	present as an indication a call			
			History-Info header containing	
	one hi-entry in the sent 181 as		Thetery into Header containing	
ISUP Parameter values	ACM: Backward call indicator			
	Called party statue=	no indication'		
	Generic notification=ca			
	Call diversion information			
	Redirection number			
	Nature of address indicator= NOA_value			
	Address signal Digits			
SIP Parameter values	181:			
	History-Info: <sip:unknow< th=""><th>n@unknown.invalid>; index=1</th><th>,</th></sip:unknow<>	n@unknown.invalid>; index=1	,	
	<sip: last_hist_uri;cause="any">; index=1.1</sip:>			
	OR	•		
	History-Info: <sip:unknow< th=""><th>n@unknown.invalid>; index=1</th><th>,</th></sip:unknow<>	n@unknown.invalid>; index=1	,	
	<sip:unknow< th=""><th>n@unknown.invalid?Reason=</th><th>SIP;cause=any>; index=1.1,</th></sip:unknow<>	n@unknown.invalid?Reason=	SIP;cause=any>; index=1.1,	
	<sip:last_hist_uri>; index=1.2</sip:last_hist_uri>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	181 Being forwarded ←	· ←	ACM	
		Apply post test routine		

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

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

TP number	TP_305_050	Reference	7.4.6.3.3
			table 7.4.6.3.3.1,
			table 7.4.6.3.3.3
TSS reference	PSTN-SS/CDIV/	1	,
Selection criteria	PICS 7.3.5/2 AND PICS 7.3.1/	1 AND PICS 7.3.2/5	
Test Purpose name	Mapping of ACM Redirecting reparameter	eason into 181 (Being forward	ed) History-Info header cause
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 cause parameter of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-38		
ISUP Parameter values	ACM: Backward call indicator Called party statue= Generic notification=cal Redirection number Call diversion informatio Redirecting reason	I is diverting	
SIP Parameter values	181: History-Info: <sip:unknown@unknow <sip:derived="" from="" redir<="" th=""><th>/n.invalid>; index=1, ection number in ACM;cause=</th><th>-Cause value>; index=1.1</th></sip:unknown@unknow>	/n.invalid>; index=1, ection number in ACM;cause=	-Cause value>; index=1.1
Comments	'	•	_ ,
Message flows	Mg	MGCF	ISUP
	INVITE ->	→	IAM
	181 Being forwarded ←	+	ACM
		Apply post test routine	

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

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

TP number	TP_305_051	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 7.3.5/2 AND PICS 7.3.1/	1 AND PICS 7.3.2/5		
Test Purpose name	Mapping of ACM Redirecting re Reason header	eason into 181 (Being forwarde	ed) History-Info header	
Test Purpose	present as an indication a call diversion information Redirection	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 Reason header of the second last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-39		
ISUP Parameter values	ACM: Backward call indicator			
SIP Parameter values	181: History-Info: <sip:unknown@unknown.invalid>; index=1, <sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1.1, <sip:derived acm="" from="" in="" number="" redirection="">; index=1.2</sip:derived></sip:unknown@unknown.invalid?reason=sip;cause=cause_value></sip:unknown@unknown.invalid>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->		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	302
VA_02	unconditional	302
VA_03	User Busy	486
VA_04	No reply	408
VA_05	Deflection during alerting	302
VA_06	Deflection immediate response	302
VA 07	Mobile subscriber not reachable	503

					T=	
TP number	TP_305_052	Refer	ence		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 7.3.1/1 AND PIC	CS 7.3.2/5				
Test Purpose name	Mapping of ACM Notif	ication subscrip	tion options no	181 (Be	eing forwarded) is sent	
Test Purpose	Ensure that on receipt	of an ACM a R	dedirection number	ber and	the Call diversion parameter	er is
	present as an indication	on a call diversi	on occurred, if t	he Call	diversion information	
	Notification subscription	on options is se	t to presentatio	n not a	Illowed no 181 (Being	
	forwarded) is sent	•	•		, ,	
ISUP Parameter values	ACM:					
	Generic notification	ation=call is dive	erting			
	Redirection nu	Redirection number				
	Call diversion information					
	Notification	subscription or	tions=presenta	tion not	allowed	
SIP Parameter values			•			
Comments						
Message flows	Mg		MGCF		ISUP	
	INVITE	→		→	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 7.3.1/1 AND PICS 7.3.2/	5					
Test Purpose name	Mapping of ACM Notification s Privacy header	` ` `	, .				
Test Purpose	present as an indication a call diversion information Notification	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Notification subscription options is mapped into the escaped Privacy header of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-40.					
ISUP Parameter values	ACM:	ACM:					
	Redirection number Call diversion information	Generic notification=call is diverting Redirection number Call diversion information					
	·	Notification subscription options=NSO_value					
SIP Parameter values	181:	1 - 1					
	History-Info:	,					
	<pre><sip:unknown@unknown.invalid>; index=1, <sip:any proper="" uri?privacy="PRIV_value;cause=any">;index=1.1</sip:any></sip:unknown@unknown.invalid></pre>						
		cy= PRIV_value ;cause=any>;li	ndex=1.1				
	OR						
	History-Info:	volida Lindov 1					
	<sip:unknown@unknown.ii< th=""><th></th><th>nnys :indox=1 1</th></sip:unknown@unknown.ii<>		nnys :indox=1 1				
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=any>;index=1.1, <sip:any proper="" uri?privacy="PRIV_value">;index=1.1</sip:any></sip:unknown@unknown.invalid?reason=sip;cause=any></pre>						
Comments	Csip.arry proper Giver riva	Sy-1 Kiv_value>,index=1.1					
Message flows	Mg	MGCF	ISUP				
Incodage Hows	INVITE -		IAM				
	181 Being forwarded	=	ACM				
	To i being forwarded	Apply post test routine	AOW				
	Apply post test routille						

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

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

TP number	TP_305_054	Reference	e	7.4.6.3.3	
	555_55.			table 7.4.6.3.3.1,	
				table 7.4.6.3.3.4	
TSS reference	PSTN-SS/CDIV/	<u> </u>			
Selection criteria	PICS 7.3.1/1 AND I	PICS 7.3.2/5			
Test Purpose name	Mapping of CPG Re	edirection number into	181 (Being forwar	ded) History-Info header	
Test Purpose	Ensure that on rece	eipt of a CPG the Ever	nt indicator is set to	'Progress' a Redirection	
	number and the Ca	II diversion parameter	is present as an in	dication a call diversion	
	occurred, a 181 (Be	eing forwarded) is sen	t. The Redirection r	number is mapped into the last	
	hi-targeted-to-uri in	a History-Info header	in the sent 181 as	indicated in table 6.2.5-37	
ISUP Parameter values	CPG: Event=Progr	ress			
	Generic notification=call is diverting				
	Call diversio	n information			
	Redirection				
		f address indicator= N	OA_value		
		signal Digits			
SIP Parameter values	181:				
	History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<sip:last_hist_uri;cause=any>; index=1.1</sip:last_hist_uri;cause=any>				
	OR				
		sip:unknown@unknov			
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=any>; index=1.1, <sip:last_hist_uri>; index=1.2</sip:last_hist_uri></sip:unknown@unknown.invalid?reason=sip;cause=any></pre>				
Comments	<:	sip.LASI_niSI_UKI>	s, index=1.2		
Message flows	Ma		MGCF	ISUP	
wessage nows	Mg INVITE	→	WIGGF →	IAM	
		-	7	ACM	
	180 Ringing	←	7		
	181 Being forwarded ← ← CPG				
	Apply post test routine				

TP number	TP_305_055	Reference	7.4.6.3.3			
ir number	TP_305_055	Reference				
			table 7.4.6.3.3.1,			
700	2021 00 (02 !! //		table 7.4.6.3.3.4			
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 7.3.5/2 AND PICS 7.3.					
Test Purpose name	Mapping of CPG Redirecting	reason into 181 (Being forward	led) History-Info header cause			
	parameter					
Test Purpose	Ensure that on receipt of a C	PG the Event indicator is set to	'Progress' a Redirection			
-	number and the Call diversio	n parameter is present as an in	dication a call diversion			
		rded) is sent. The Call diversion				
		use parameter of the last hi-ta				
	header in the sent 181 as inc		,			
ISUP Parameter values	CPG: Event=Progress					
	Generic notification=call is diverting					
	Redirection number					
	Call diversion information					
	Redirecting reason =REAS_value					
SIP Parameter values	181:					
on randingtor rando	History-Info:					
		<pre><sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid></pre>				
	<pre><sip:unknown@unknown.invalid>, index=1, <sip:derived acm;cause="Cause_value" from="" in="" number="" redirection="">; index=1.1</sip:derived></sip:unknown@unknown.invalid></pre>					
Comments	<sip.defived from="" nec<="" th=""><th>illection number in Acivi,cause-</th><th>-Cause_value>, index=1.1</th></sip.defived>	illection number in Acivi,cause-	-Cause_value>, index=1.1			
	Ma	MGCF	ISUP			
Message flows	Mg					
	·····-)	IAM			
		(ACM			
	181 Being forwarded	+ +	CPG			
	Apply post test routine					

TP number	TP_305_056	Reference	7.4.6.3.3			
			table 7.4.6.3.3.1,			
			table 7.4.6.3.3.4			
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 7.3.5/2 AND PICS 7.3	3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of CPG Redirectin	g reason into 181 (Being fo	orwarded) History-Info header			
	Reason header					
Test Purpose			set to 'Progress' a Redirection			
			an indication a call diversion			
			ersion information Redirecting			
			and last hi-targeted-to-uri in a			
	History-Info header in the se	ent 181 as indicated in tabl	e 6.2.5-39			
ISUP Parameter values	CPG: Event=Progress					
	Generic notification=	call is diverting				
	Redirection number					
		Call diversion information				
		on = REAS_value				
SIP Parameter values	181:					
	History-Info:					
	<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>					
		?Reason=SIP;cause= Caus				
	<sip:derived acm="" from="" in="" number="" redirection="">; index=1.2</sip:derived>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	180 Ringing	←	← ACM			
	181 Being forwarded	←	← CPG			
	Apply post test routine					

TP number	TP_305_057	Reference	7.4.6.3.3			
			table 7.4.6.3.3.1,			
			table 7.4.6.3.3.4			
TSS reference	PSTN-SS/CDIV/		<u> </u>			
Selection criteria	PICS 7.3.1/1 AND PIC	S 7.3.2/5				
Test Purpose name	Mapping of CPG Notific	cation subscription options no	181 (Being forwarded) is sent			
Test Purpose			is set to 'Progress' a Redirection			
			as an indication a call diversion			
			n subscription options is set to			
	presentation not allow	wed no 181 (Being forwarded) is sent			
ISUP Parameter values	CPG: Event=Progress	3				
	Generic notifica	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	←	← ACM			
	3 .9		← CPG			
	Apply post test routine					

TP number	TP_305_058	Refere	nce	7.4.6.3.3 table 7.4.6.3.3.1,		
TSS reference	PSTN-SS/CDIV/			table 7.4.6.3.3.4		
Selection criteria	PICS 7.3.1/1 AN					
) : (
Test Purpose name	Privacy header	<u> </u>		Being forwarded) escaped		
Test Purpose	number and the occurred, a 181 subscription opti	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Notification subscription options is mapped into the escaped Privacy header of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-40				
ISUP Parameter values	CPG: Event=Pr 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	181: History-Info: OR History-Info:	<pre><sip:unknown@unkr <sip:unknown@unkr<="" pre=""></sip:unknown@unkr></pre>	?Privacy= PRIV_value nown.invalid>; index=1	;;cause=any>; index=1.1 , ;SIP;cause=any>; index=1.1,		
Comments		-, -, ,, -, -		,		
Message flows	Mg INVITE 180 Ringing 181 Being forwa		MGCF → ← y post test routine	ISUP IAM ACM CPG		

TP number	TP_305_059	Reference	7.4.6.3.3				
Tr Hullibei	11 _303_039	Kelelelice	table 7.4.6.3.3.1,				
			table 7.4.6.3.3.4				
TSS reference	PSTN-SS/CDIV/		table 1.4.0.3.3.4				
Selection criteria		7.3.1/1 AND PICS 7.3.2/5					
Test Purpose name			180 (Ringing) History-Info header				
rest Purpose name		apped into the cause param					
Test Purpose							
rest Purpose			is set to 'Alerting' a Redirection number				
			number Address signal digits are				
			of header in the sent 180 as indicated				
	Redirecting reason as in		napped from a previous received				
ISUP Parameter values	ACM: Backward call inc						
150P Parameter values							
		Called party status=no indication Generic notification=call is diverting					
		Call diversion information					
	Redirecting reason = REAS_value Redirection number						
	CPG: Event indicator=Alerting						
	Redirection number						
	Nature of address indicator=NOA_value						
	Address signal Digits						
SIP Parameter values	180:	a Digits					
Sir raiailletei values	History-Info:						
	1	nknown invalids: index=1					
	<pre><sip:unknown@unknown.invalid>; index=1, <sip:derived cpg;cause="Cause_value" from="" in="" number="" redirection="">; index=1.1</sip:derived></sip:unknown@unknown.invalid></pre>						
Comments	<sip.defived from<="" th=""><th>Redirection number in or c</th><th>b,cause=Cause_value>, index=1.1</th></sip.defived>	Redirection number in or c	b,cause= Cause_value >, index=1.1				
Message flows	Mg	MGCF	ISUP				
Incode IOWS	INVITE	wiger →	→ IAM				
	·····	-	← ACM				
	181 Being forwarded	-					
	Apply post test routine						

TP number	TP_305_060	Reference	7.4.6.3.3				
	11 _000_000	1.0.0.0.00	table 7.4.6.3.3.1,				
			table 7.4.6.3.3.5				
TSS reference	PSTN-SS/CDIV/	1					
Selection criteria	PICS 7.3.5/2 AND PICS 7.3.1/	1 AND PICS 7.3.2/5					
Test Purpose name	Mapping of a CPG Alerting Re-	direction number into 180 (Rin	ging) History-Info header				
	Redirecting reason is mapped	into the Reason header					
Test Purpose			'Alerting' a Redirection number				
	is present, a 180 (Ringing) is s						
	mapped into the second last hi	-targeted-to-uri in a History-Inf	o header in the sent 180 as				
	indicated in table 6.2.5-37 and		apped from a previous				
	received Redirecting reason as	s indicated in table 6.2.5-38					
ISUP Parameter values	ACM: Backward call indicator						
	Called party status=no indication						
	Generic notification=call is diverting						
	Call diversion information						
	Redirecting reason =REAS_value						
	Redirection number						
	CPG: Event indicator=Alerting	Redirection number					
		odicator-NOA value					
	Nature of address indicator= NOA_value Address signal Digits						
SIP Parameter values	180:						
on rarameter values	History-Info:						
	<sip:unknown@unknow< th=""><th>n invalid>: index=1</th><th></th></sip:unknown@unknow<>	n invalid>: index=1					
			=Cause_value>: index=1.1.				
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1.1, <sip:derived cpg="" from="" in="" number="" redirection="">; index=1.2</sip:derived></sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE ->	→	IAM				
	181 Being forwarded ←	←	ACM				
	180 Ringing ← ← CPG						
		Apply post test routine					

TP number	TP_305_061	Reference		7.4.6.3.3	}		
	11 _000_001	TKOTOTOTIOO		table 7.4			
				table 7.4			
TSS reference	PSTN-SS/CDIV/			table 7.4	.0.0.0.0		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	/5					
Test Purpose name	Mapping of CPG Alerting Red		ction into 18	0 (Ringing) Privacy header		
Test Purpose	Ensure that on receipt of a CF Restriction parameter is prese	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection Number Restriction parameter is present, a 180 (Ringing) is sent. The Redirection Number Restriction parameter value is mapped into the Privacy header in the sent 180 as indicated in					
ISUP Parameter	ACM: Backward call indicator	r					
values	Called party status:	no indication					
	Generic notification=ca	III is diverting					
	Call diversion informati	ion					
	Redirection number	Redirection number					
	CPG: Event indicator=Alerting						
	Redirection Number Restriction=PRES_restr						
SIP Parameter values	180:						
	Privacy= PRIV_value						
Comments							
Message flows	Mg	MGCF			ISUP		
	INVITE	→	→	IAM			
	181 Being forwarded	←	←	ACM			
	180 Ringing	←	←	CPG			
	Apply post test routine						

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

CAUSE	Redirection Number Restriction PRES_restr	Privacy PRIV_value
VA_01	Presentation allowed	'none' OR
		Header not present
VA_02	Presentation restricted	'History'

TP number	TP_305_063	Reference)	7.4.6.3.3		
				table 7.4.6.3.3.1,		
				table 7.4.6.3.3.6		
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 7.3.5/2 AND P	ICS 7.3.1/1 AND PICS	S 7.3.2/5			
Test Purpose name	Mapping of ANM Re is mapped into the c		200 OK History-In	fo header Redirecting re	ason	
Test Purpose	Ensure that on recei sent. The Redirectio hi-targeted-to-uri in a	pt of an ANM a Redire n number Address sig a History-Info header i	nal digits are map n the sent 200 OK	resent, a 200 OK (INVITI ped into the last as indicated in table 6.2 received Redirecting rea	2.5-37	
	as indicated in table		•	S .		
ISUP Parameter values	Called pa Generic notifi Call diversion Redirectir Redirection n	ACM: Backward call indicator				
	Redirection number Nature of address indicator= NOA_value					
		signal Digits				
SIP Parameter values	200 OK: History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>					
Comments						
Message flows	Mg	N	IGCF	ISUP		
	INVITE	→	→	IAM		
	181 Being forwarded	+	←	ACM		
	180 Ringing	(←	CPG		
	200 OK INVITE	←	←	ANM		
	ACK	→				
	Apply post test routine					

TP number	TP_305_064	Reference	7.4.6.3.3			
			table 7.4.6.3.3.1,			
			table 7.4.6.3.3.6			
TSS reference	PSTN-SS/CDIV/					
Selection criteria	PICS 7.3.5/2 AND PICS 7.	.3.1/1 AND PICS 7.3.2/5				
Test Purpose name	Mapping of ANM Redirecti	on number into 200 OK I	History-Info header Redirecting reason			
	is mapped into the Reasor					
Test Purpose			mber is present, a 200 OK (INVITE) is			
	sent. The Redirection num					
			at 200 as indicated in table 6.2.5-37 and			
		is mapped from a previo	us received Redirecting reason as			
	indicated in table 6.2.5-39					
ISUP Parameter values	ACM: Backward call indic	ator				
		tus=no indication				
	Generic notification	<u> </u>				
	Call diversion inforr					
	•	son = REAS_value				
	Redirection number	r				
	ANM:					
	Redirection number					
	Nature of address indicator=NOA_value					
	Address signal Digits					
SIP Parameter values	200 OK:					
	History-Info:					
		known.invalid>; index=1,				
			IP;cause= Cause_value >; index=1.1,			
_	<sip:last_hist_u< th=""><th>JRI>; index=1.2</th><th></th></sip:last_hist_u<>	JRI>; index=1.2				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	181 Being forwarded	←	← ACM			
	180 Ringing	←	← CPG			
	200 OK INVITE	-	← ANM			
	ACK	→				
		Apply post test i	outine			

TP number	TP_305_066	Reference		7.4.6.3.3	3		
				table 7.4	4.6.3.3.1,		
				table 7.4	4.6.3.3.6		
TSS reference	PSTN-SS/CDIV/	<u>.</u>					
Selection criteria	PICS 7.3.1/1 AND PICS 7	7.3.2/5					
Test Purpose name	Mapping of ANM Redirect	tion Number Restriction i	nto 180 (R	inging) Pr	ivacy header		
Test Purpose	as an indication a call dive	Ensure that on receipt of an ANM a Redirection Number Restriction parameter is present as an indication a call diversion occurred, a 180 (Ringing) is sent. The Redirection Number Restriction parameter value is mapped into the Privacy header in the sent 180 as indicated					
ISUP Parameter values	ACM: Generic notification Call diversion infor Redirection number ANM: Event indicator=Al Redirection Number	mation er	str				
SIP Parameter values	180: Privacy= PRIV_value						
Comments							
Message flows	Mg INVITE 181 Being forwarded 180 Ringing 200 OK INVITE ACK	MGCF → ← ← ←	←	IAM ACM CPG ANM	ISUP		
		Apply post test	routine				

TP number	TP 305 067	Reference	7.4.6.1		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	NOT PICS 7.3.2/5				
Test Purpose name	No mapping of Redirecting nur	nber, Original called number a	nd Redirection Information		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter, a Original called number and a Redirection Information parameter Redirecting reason indicator is set to REAS_value 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 Original called number				
SIP Parameter values					
Comments					
Message flows	ISUP IAM →	MGCF → INV	Mg		
	Apply post test 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_068	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 7.3.2/5				
Test Purpose name	No mapping of ACM Redirection	on number and Call diversion in	nformation		
Test Purpose		CM a Redirection number and			
		o REAS_value as indicated in			
	an indication a call diversion o	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=ca	II is diverting			
	Redirection number				
	Call diversion informati	on			
	Redirecting reason =REAS_value				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	→	IAM		
	180 Ringing ←	· ←	ACM		
	Apply post test routine				

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

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

6.2.6 Explicit Call Transfer (ECT)

TP number	TP_306_001	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.	2/6	
Test Purpose name	A session is retrieved when a	a notification 'call transfer, activ	ve' in a FAC was received and
	the session is on hold		
Test Purpose		that on receipt of an FAC mes	
		'call transfer, active', a reINVI	ΓE is sent the a attribute in the
	SDP is set to 'sendrecv'		
ISUP Parameter values	FAC: Generic notification=tra	ansfer active	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	Mg	MGCF	ISUP
	···· ·	→ →	· IAM
		←	
	180 Ringing	(· ACM
	200 OK (INVITE)	+ +	· ANM
		~	AINIVI
	ACK		
	INVITE 2	(CPG(hold)
	200 OK (INVITE)	→	J. J. (11212)
	,	←	
	INVITE 3	(FAC(call transfer, active)
	200 OK (INVITE)	→	, ,
	` /	←	
		Apply post test routine	

TP number	TP_306_002	Reference	7.4.8
TSS reference	PSTN-SS/ECT/	1	1 -
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	6	
Test Purpose name	A session is retrieved when a	notification 'call transfer, alert	ing' in a FAC was received and
•	the session is on hold	,	
Test Purpose	A session is on hold. Ensure the	nat on receipt of an FAC mes	sage and the Generic
	notification indicator is set to 'c	all transfer, alerting', a reINV	ITE is sent the a attribute in the
	SDP is set to 'sendrecv'		
ISUP Parameter values	FAC: Generic notification=tran	sfer alerting	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE 1	-	IAM
	100 Trying ←		
	180 Ringing ←	·	ACM
	200 OK (INVITE)	· ←	ANM
	ACK	-	AINIVI
	Aort		
	INVITE 2	• •	CPG(hold)
	200 OK (INVITE)	•	
	ACK	1	
	INVITE 3 ←	·	FAC(call transfer, alerting)
	200 OK (INVITE)	•	
	ACK €	•	
		Apply post test routine	

TP number	TP_306_003	Refe	rence	7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 7.3.1/1 AND PICS	7.3.2/6		
Test Purpose name	A session is retrieved w	hen a notific	ation 'call transfer, a	active' in a CPG was received and
	the session is on hold			
Test Purpose	A session is on hold. Er	sure that or	receipt of an CPG	message and the Generic
	notification indicator is s	et to 'call tra	nsfer, active', a rell	NVITE is sent the a attribute in the
	SDP is set to 'sendrecv'			
ISUP Parameter values	CPG: Generic notification	on=transfer a	active	
SIP Parameter values	INVITE 2 SDP a=sendo			
	INVITE 3 SDP a=sendre	ecv		
Comments				
Message flows	Mg		MGCF	ISUP
	IAM	→	→	INVITE
			←	100 Trying
	ACM	←	+	180 Ringing
	ANM	←	←	200 OK (INVITE)
			→	ACK
	INVITE 2	←	←	CPG(hold)
	200 OK (INVITE)	→		
	ACK	←		
	INVITE 3	←	←	CPG(call transfer, active)
	200 OK (INVITE)	→		
	ACK	←		
		Aŗ	ply post test routi	ne

TP number	TP_306_004	R	eference	7.4.8			
TSS reference	PSTN-SS/ECT/						
Selection criteria	PICS 7.3.1/1 AND PI	PICS 7.3.1/1 AND PICS 7.3.2/6					
Test Purpose name	A session is retrieved the session is on hold		fication 'call transfer,	alerting' in a CPG was received and			
Test Purpose	A session is on hold. Ensure that on receipt of an CPG message and the Generic notification indicator is set to 'call transfer, alerting', a reINVITE is sent the a attribute in the SDP is set to 'sendrecy'						
ISUP Parameter values	CPG: Generic notifica	ation=transfe	er alerting				
SIP Parameter values	INVITE 2 SDP a=sen INVITE 3 SDP a=sen						
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM ACM	→	→ ←	INVITE 100 Trying 180 Ringing			
	ANM	←	← →	200 OK (INVITE) ACK			
	INVITE 2 200 OK (INVITE) ACK	← →	←	CPG(hold)			
	INVITE 3 200 OK (INVITE) ACK	← → ←	+	CPG(call transfer, alerting)			
			Apply post test rout	ine			

TP number	TP_306_005	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3	3.2/6	
Test Purpose name	FAC with generic notificatio	n 'call transfer, active' recei	ved, no mapping
Test Purpose			eric notification indicator is coded as mapping occurs on the SIP site
ISUP Parameter values	FAC: Generic notification=t	ransfer active	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
		←	100 Trying
	ACM ←	←	180 Ringing
	ANM ←	←	200 OK (INVITE)
		→	ACK
		←	FAC(call transfer, active)
		Apply post test rout	ine

TP number	TP_306_005	Reference	7.4.8
TSS reference	PSTN-SS/ECT/	<u> </u>	•
Selection criteria	PICS 7.3.1/1 AND PICS 7.3	.2/6	
Test Purpose name	FAC with generic notification	n 'call transfer, alerting' rece	eived, no mapping
Test Purpose	Ensure that on receipt of a l	FAC message and the Gene	eric notification indicator is coded as
	'call transfer, alerting' and th	e session is not on hold, no	mapping occurs on the SIP site
ISUP Parameter values	FAC: Generic notification=to	ansfer alerting	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
		←	100 Trying
	ACM ←	+	180 Ringing
	ANM ←	←	200 OK (INVITE)
		→	ACK
		←	FAC(call transfer, alerting)
		Apply post test routi	ine

TP number	TP_306_005	Reference	7.4.8		
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/6	6			
Test Purpose name	CPG with generic notification 'c	all transfer, active' received,	no mapping		
Test Purpose	Ensure that on receipt of a CPC call transfer, active and the se		notification indicator is coded as ping occurs on the SIP site		
ISUP Parameter values	CPG: Generic notification=tran	sfer active			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ IN	/ITE		
		← 100	O Trying		
	ACM ←	← 186	O Ringing		
	ANM ←	€ 20	O OK (INVITE)		
		→ AC	K		
		← CP	G(call transfer, active)		
		Apply post test routine			

TP number	TP_306_005	Reference	7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/6	6	
Test Purpose name	CPG with generic notification 'c	call transfer, alerting' received	l, no mapping
Test Purpose	Ensure that on receipt of a CPC call transfer, alerting and the s		notification indicator is coded as oping occurs on the SIP site
ISUP Parameter values	CPG: Generic notification=trans	sfer alerting	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→ IN'	/ITE
		← 10	0 Trying
	ACM ←	← 18	0 Ringing
	ANM ←	← 20→ AC	O OK (INVITE) K
		← CF Apply post test routine	PG(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 7.3.1/1 AND PICS 7.3.2/7	7	
Test Purpose name	Generic notification 'Call is a wa	aiting call' in ACM is not interw	vorked
Test Purpose	Ensure that on receipt of an AC	CM and the called party status	indicator is set to 'subscriber
	free', a 180 Ringing is sent. The	e Generic notification 'Call is a	waiting call' is not
	interworked		-
ISUP Parameter values	ACM: BCI Called party Status=	subscriber free, Generic notifi	cation=Call is a waiting call
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE ->	→	IAM
	100 Trying ←		
	180 Ringing ←	←	ACM
		Apply post test routine	

TP number	TP_307_002	Reference	7.4.9			
TSS reference	PSTN-SS/CW/					
Selection criteria	PICS 7.3.1/1 AND PIC	CS 7.3.2/7				
Test Purpose name	Generic notification 'C	all is a waiting call' in CPC	G is not interworked			
Test Purpose	and the Event indicati	An ACM called party status 'no indication' was received. Ensure that on receipt of a CPG and the Event indication is set to 'Alerting', a 180 Ringing is sent. The Generic notification 'Call is a waiting call' is not interworked.				
ISUP Parameter values		y Status=no indication, oB n=ALERTING, Generic not	CI=inband info available ification=Call is a waiting cal	I		
SIP Parameter values	183 P-Early-Media:		-			
Comments						
Message flows	Mg	MGCF	IS	UP		
_	INVITE	→	→ IAM			
	100 Trying	←				
		← ACM(no indication)				
	180 Ringing	· · · · · · · · · · · · · · · · · · ·				
		Apply post te	st routine	,		

6.2.8 Call Hold

TP number	TP_308_001	Reference	7.4.10	
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/9			
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 'sendrecy'			
ISUP Parameter values	CPG: Generic notification			
	Remote hold			
	Remote retrieval			
SIP Parameter values	INVITE/UPDATE:SDP 1			
	a=sendo	nly		
	SDP 2	201		
Comments	a=sendre	ecv		
Message flows	Mg	MGCF	ISUP	
Message nows	_	stablish a confirmed dialogu		
	CASE A	stabilari a comminea dialogi		
	INVITE(SDP 1 = sendonly) 200 OK (INVITE) ACK	← → ←	← CPG(hold)	
	CASE B UPDATE(SDP 1 = sendonly) 200 OK (UPDATE)	← →		
	CASE A INVITE(SDP 2 = sendrecv) 200 OK (INVITE) ACK	← → ←	← CPG(retrieve)	
	CASE B UPDATE(SDP 2 = sendrecv) 200 OK (UPDATE)	← → Apply post test routine		

TP number	TP_308_002	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 7.3.1/1 AND PICS	7.3.2/9				
Test Purpose name	Hold and Retrieve reques	sted from SIP in reINVITE req	uest			
Test Purpose	Ensure that on receipt of	Ensure that on receipt of an INVITE request in the confirmed dialogue and the media				
	stream in the SDP is set	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 INVITE request in the con	firmed dialogue and the media			
			e is sent the Generic notification			
	indicator is set to 'remote					
ISUP Parameter values	CPG: Generic notification	on				
	Remote hold					
	Remote retriev	val				
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendonly					
	SDP 2					
_	a=s	sendrecv				
Comments						
Message flows	Mg	MGCF	ISUP			
		Establish a confirmed d	_			
	INVITE(sendonly)	→	→ CPG(hold)			
	200 OK (INVITE)	←				
	ACK	→				
	INVITE(sendrecv)	→	→ CPG(retrieve)			
	200 OK (INVITE)	←				
	ACK	→				
		Apply post test rout	tine			

TP number	TD 200 002	Reference	7.4.10			
	TP_308_003	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2					
Test Purpose name	Hold and Retrieve requested from SIP in UPDATE request					
Test Purpose	Ensure that on receipt of an UPDATE request in the confirmed dialogue and the media					
		stream in the SDP is set to 'sendonly', a CPG message is sent the Generic notification				
	indicator is set to 'remote hold					
		PDATE request in the confirme				
	stream in the SDP is set to 'se	ndrecv', a CPG message is ser	nt the Generic notification			
	indicator is set to 'remote retri-	eval'				
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
	Remote retrieval					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendonly					
	SDP 2					
	a=sendrecv					
Comments						
Message flows	Mg	MGCF	ISUP			
_	E	stablish a confirmed dialogu	e			
	UPDATE(sendonly)		CPG(hold)			
	200 OK (ÙPDATE)	=	,			
	ACK →					
	UPDATE(sendrecv) → CPG(retrieve)					
	200 OK (UPDATE)		3. 3(15111676)			
	ACK (OFDATE)					
	ACK	Apply post test routine				
		Apply post test routine				

TP number	TP_308_004	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/9	9				
Test Purpose name	Hold requested from both ends	, session inactive sent				
Test Purpose	Ensure that on receipt of a CPC					
	'remote hold' und the session w	'remote hold' und the session was set on hold before, an INVITE or UPDATE request is				
	sent and the media stream is set to 'inactive'					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendor	nly				
	SDP 2					
	a=inactive	9				
Comments						
Message flows	Mg	MGCF	ISUP			
		stablish a confirmed dialogue				
	INVITE(SDP 1 = sendonly)	→	→ CPG(hold)			
	200 OK (INVITE)	←				
	ACK	→				
	CASE A					
	INVITE(SDP 2 = inactive)	←	← CPG(hold)			
	200 OK (INVITE)	→				
	ACK	←				
	CASE B					
	UPDATE(SDP 2 = inactive)	←				
	200 OK (UPDATE)	→				
		Apply post test routine				

TD	TD 000 005	D-(7.4.40		
TP number	TP_308_005	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/9	9			
Test Purpose name	Hold requested from both ends	, session inactive received			
Test Purpose	The session is already set on h				
	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		
	Es	stablish a confirmed dialogue	e		
	CASE A	_			
	INVITE(SDP 1 = sendonly)	←	← CPG(hold)		
	200 OK (INVITE)	→	- (/		
	ACK	-			
	/ Cort	•			
	CASE B				
	UPDATE(SDP 1 = sendonly)	←			
	200 OK (UPDATE)	÷			
	200 OK (OPDATE)	7			
	INVITE(SDP 2 = inactive)	→	→ CPG(hold)		
		7 ←	- CFG(Hold)		
	200 OK (INVITE)				
	ACK	→			
		Apply post test routine			

TP number	TP 308 006	Reference	7.4.10	
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	2/9		
Test Purpose name	First hold from SIP. Session i	nactive, Retrieve requested from	SIP	
Test Purpose	The session is set on hold at first from SIP as well as second from ISUP. Ensure that on receipt of an INVITE request and the media stream in the SDP is set to 'recvonly', a CPG message is sent and the Generic notification indicator is set to 'remote retrieval'			
ISUP Parameter values	CPG 1: Generic notification	n		
	Remote hold			
	CPG 2: Generic notification			
	Remote retriev	al		
SIP Parameter values	INVITE/UPDATE:SDP 1			
	a=sende	only		
	SDP 2 a=inacti	VO		
	SDP 3	ve		
	a=recvo	nly		
Comments	u=10010	,		
Message flows	Mg	MGCF	ISUP	
		Establish a confirmed dialogue	•	
	INVITE(SDP 1 = sendonly)	→	→ CPG 1 (hold)	
	200 OK (INVITE)	←	, ,	
	ACK	→		
	CASE A			
	INVITE(SDP 2 = inactive)	←	← CPG 1 (hold)	
	200 OK (INVITE)	→	, ,	
	ACK	←		
	CASE B			
	UPDATE(SDP 2 = inactive)	←		
	200 OK (UPDATE)	→		
	INIVITE (ODD O TOTAL L.)		N ODG O (vertices)	
	INVITE(SDP 3 = recvonly))	→ CPG 2 (retrieve)	
	200 OK (INVITE)	← →		
	ACK	-		
		Apply post test routine		

TP number	TP_308_007	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/	1	-
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	/9	
Test Purpose name	First hold from SIP. Session in	nactive, Retrieve requeste	ed from ISUP
Test Purpose			econd from ISUP. Ensure that on
			indicator is set to 'remote retrieval',
		st is sent and the media s	tream in the SDP I set to 'recvonly'
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1		
	a=sendo	only	
	SDP 2		
	a=inactiv	/e	
	SDP 3	alv	
Comments	a=recvoi	niiy	
Message flows	Mg	MGCF	ISUP
Wessage nows		Establish a confirmed di	
	INVITE(SDP 1 = sendonly)	→	→ CPG(hold)
	200 OK (INVITE)	É	2 Of G(fiold)
	ACK	• →	
	, tort	•	
	CASE A		
	INVITE(SDP 2 = inactive)	←	← CPG(hold)
	200 OK (INVITE)	→	- 3. 3()
	ACK	(
	CASE B		
	UPDATE(SDP 2 = inactive)	(
	200 OK (UPDATE)	→	
	,		
	CASE A		
	INVITE(SDP 3 = recvonly)	←	CPG(retrieve)
	200 OK (INVITE)	→	, ,
	ACK	←	
	CASE B		
	UPDATE(SDP 3 = recvonly)	←	
	200 OK (UPDATE)	→	
		Apply post test rout	ine

TP number	TP_308_008	Reference	7.4.	10		
TSS reference	PSTN-SS/HOLD/	Reference	/	10		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	/O				
			d frame CI	D		
Test Purpose name		First hold from ISUP. Session inactive, Retrieve requested from SIP The session is set on hold at first from ISUP as well as second from SIP. Ensure that on				
Test Purpose						
	receipt of an INVITE request a					
	message is sent and the Gene	eric notification indicator is s	et to 'ren	note retrieval		
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendo	nly				
	SDP 2					
	a=inactiv	/e				
	SDP 3					
	a=recvor	าly				
Comments						
Message flows	Mg	MGCF		ISUP		
	E	stablish a confirmed dialo	ogue			
	CASE A					
	INVITE(SDP 1 = sendonly)	←	←	CPG(hold)		
	200 OK (INVITE)	→				
	ACK	←				
	CASE B					
	UPDATE(SDP 1 = sendonly)	←				
	200 OK (UPDATE)	→				
	200 011 (01 27112)	•				
	INVITE(SDP 2 = inactive)	→	→	CPG(hold)		
	200 OK (INVITE)	É	•	Of O(fiold)		
	ACK	→				
	ACK	7				
	INIVITE/CDD 2 required:	→	→	CDC(retrieve)		
	INVITE(SDP 3 = recvonly)		7	CPG(retrieve)		
	200 OK (INVITE)	(
	ACK	→				
		Apply post test routine)			

TP number	TP_308_009	Reference	7.4.10				
TSS reference	PSTN-SS/HOLD/	1					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	9					
Test Purpose name	First hold from ISUP. Session	First hold from ISUP. Session inactive, Retrieve requested from ISUP					
Test Purpose			cond from SIP. Ensure that on				
			dicator is set to 'remote retrieval',				
		t is sent and the media stre	am in the SDP is set to 'recvonly'				
ISUP Parameter values	CPG: Generic notification						
	Remote hold						
SIP Parameter values	INVITE/UPDATE:SDP 1						
	a=sendo	nly					
	SDP 2	_					
	a=inactiv	e					
	a=recvor	dv					
Comments	a-recvoi	шу					
Message flows	Mg	MGCF	ISUP				
moodage nowe		stablish a confirmed dialo					
	CASE A		9				
	INVITE(SDP 1 = sendonly)	←	← CPG(hold)				
	200 OK (INVITE)	→	J. J(11512)				
	ACK	←					
	CASE B						
	UPDATE(SDP 1 = sendonly)	←					
	200 OK (ÙPDATE)	→					
	·						
	INVITE(SDP 2 = inactive)	→	→ CPG(hold)				
	200 OK (INVITE)	←					
	ACK	→					
	CASE A						
	INVITE(SDP 3 = recvonly)	←	← CPG(retrieve)				
	200 OK (INVITE)	→					
	ACK	←					
	0.000						
	CASE B	_					
	UPDATE(SDP 3 = recvonly)	(
	200 OK (UPDATE)	→ Analysis and to at most in a					
		Apply post test routine					

TP number	TP_308_010		Reference		7.4.10.2			
			Iverenence		7.4.10.2			
TSS reference	PSTN-SS/HOLD/							
Selection criteria	PICS 7.3.1/1 AND F							
Test Purpose name	CPG hold received	before ar	n dialogue was estal	blished	UPDATE is sent in early dialogue			
Test Purpose	Ensure that on rece	ipt of a C	PG message and th	ne Gen	eric notification indicator is set to			
-	'remote hold' before	an early	dialogue is establis	hed. th	e UPDATE request indicating the			
					ing a 180 Ringing is established.			
	The media stream in							
ISUP Parameter values	CPG: Generic notif		io dot to doridorily	iiiaioati	ing the hold state			
Sor Farameter values	Remote h							
CID Denometer values		ioiu						
SIP Parameter values	UPDATE: SDP							
		ndonly						
Comments	A CPG is received a	after an A	CM was sent.					
Message flows	Mg		MGCF		ISUP			
	IAM	→	Start Ti/w2	→	INVITE			
				←	100 Trying			
	ACM	←	Timeout Ti/w2	_	100 1171119			
	AOW	•	Timeout Ti/WZ					
	000(1.1.1)							
	CPG(hold)	→		_				
				←	180 Ringing			
				→	UPDATE(sendonly)			
				←	200 OK (UPDATE)			
			Apply post tes	st routi				

TP number	TP_308_011	Reference	e	7.4.10.2	
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 7.3.1/1 AND F	PICS 7.3.2/9 AND PIC	CS 7.3.6/1		
Test Purpose name	CPG hold received I dialogue	before an dialogue w	as established	UPDATE is sent in confirmed	
Test Purpose	Ensure that on receipt of a CPG message and the Generic notification indicator is set to 'remote hold' before an early dialogue is established, the INVITE or UPDATE request indicating the hold indication is sent after the confirmed dialogue by receiving a 200 OK (INVITE) is established. The media stream in the SDP is set to sendonly indicating the hold state				
ISUP Parameter values	CPG: Generic notif Remote h				
SIP Parameter values	INVITE/UPDATE:SI	OP a=sendonly			
Comments		•			
Message flows	Mg	MG	CF	ISUP	
	IAM	→	→ ←	INVITE 100 Trying	
	CPG(hold) ANM	→ ←	+	200 OK (INVITE)	
	CASE A		→	INVITE(sendonly)	
			← →	200 OK (INVITE) ACK	
	CASE B				
			→	UPDATE(sendonly)	
		ا	+	200 OK (UPDATE)	
		Appiy	oost test rout	ine	

TP number	TP_308_012	Referer	ice	7.4.10.2		
TSS reference	PSTN-SS/HOLD/	PSTN-SS/HOLD/				
Selection criteria	PICS 7.3.1/1 AND PI	PICS 7.3.1/1 AND PICS 7.3.2/9 AND PICS 7.3.6/1				
Test Purpose name	CPG hold received a	fter several early d	ialogues was es	tablished UPDATE is sent on the		
	last established early	/ dialogue	_			
Test Purpose				eipt of a CPG message and the		
	Generic notification in	ndicator is set to 're	emote hold', an U	JPDATE request is sent on the		
	latest established ea	rly dialogue				
ISUP Parameter values	CPG: Generic notific	cation				
	Remote he	old				
SIP Parameter values	180 1: To: <appropri< th=""><th></th><th></th><th></th></appropri<>					
	180 1: To: <appropri< th=""><th>ate URI>; tag=2</th><th></th><th></th></appropri<>	ate URI>; tag=2				
	UPDATE: To: <appro< th=""><th></th><th></th><th></th></appro<>					
Comments			om tag are equal	l. The different dialogues can be		
	distinguished by the					
Message flows	Mg		GCF .	ISUP		
	IAM	→	→	INVITE		
	ACM	←	←	180 Ringing 1		
		← 180 Ringing 2				
	CPG(hold)	→	→	UPDATE 2 (sendonly)		
			←	200 OK (UPDATE)		
		Apply	post test routil	ne		

TP number	TP_308_013		Reference	7.4.10.2
TSS reference	PSTN-SS/HO	LD/		·
Selection criteria	PICS 7.3.1/1 /	AND PICS 7.3.2/9	AND PICS 7.3.6/1	
Test Purpose name	An UPDATE (hold) is repeated	in the early dialogue af	ter SDP offer answer exchange
Test Purpose	a new SDP, a			e session was set on hold indicating a stream is set to 'sendonly' to
ISUP Parameter values	CPG: Generi Rei	ic notification mote hold		
SIP Parameter values		SDP1 SDP a=sendonly SDP 2		
Comments				
Message flows	Mg IAM	→	MGCF →	ISUP INVITE(SDP1)
	ACM	*	+	180 Ringing
	CPG(hold)	→	→	UPDATE 1 (sendonly) 200 OK (UPDATE)
			← →	
			→	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 7.3.1/1 AND PICS 7.3	2/9 AND PICS 7 3 6/1					
Test Purpose name	An UPDATE (hold) is sent a		oque is established				
Test Purpose			e that on receipt of a 180 Ringing				
rest ruipose			sent on this dialogue and the media				
		ue, an OPDATE request is	sent on this dialogue and the media				
ISUP Parameter values	stream is set to 'sendonly' CPG: Generic notification						
150P Parameter values	C. C. Contains not mount on the						
	Remote hold						
SIP Parameter values	180 1: To: <appropriate th="" ur<=""><th></th><th></th></appropriate>						
	180 1: To: <appropriate th="" ur<=""><th>>; tag=2</th><th></th></appropriate>	>; tag=2					
	UPDATE 2: To: <appropri< th=""><th>ate URI>; tag=2</th><th></th></appropri<>	ate URI>; tag=2					
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM →	→	INVITE				
	ACM ←	←	180 Ringing 1				
	000/1 10	•	LIDDATE 4 ()				
	CPG(hold) →)	UPDATE 1 (sendonly)				
		←	200 OK (UPDATE)				
	← 180 Ringing 2						
	Too ranging 2						
		→	UPDATE 2 (sendonly)				
		+	200 OK (UPDATE)				
		Apply post test routi	,				

TP number	TP_308_015	F	Reference		7.4.10.2		
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.1/1 AND PICS 7.3.2/9 AND PICS 7.3.6/1					
Test Purpose name	An INVITE or UPE	An INVITE or UPDATE (hold condition) is sent after 200 OK INVITE was received when a					
	CPG (hold) was re						
Test Purpose					ue. Ensure that on receipt of a 200		
					VITE or UPDATE request is sent		
	and the media stre		endonly' indicati	ng the	held state		
ISUP Parameter values	CPG: Generic no						
	Remote						
SIP Parameter values	INVITE/UPDATE :						
		a=send	only				
Comments					10115		
Message flows	Mg	_	MGCF		ISUP		
	IAM	→		→	INVITE		
	ACM	←		+	180 Ringing		
	CPG(hold)	→		→	UPDATE(sendonly)		
				←	200 OK (UPDATE)		
	ANM	←		←	200 OK (INVITE)		
				→	ACK		
	CASE A			→	INVITE 2 (sendonly)		
				-	200 OK (INVITE)		
				→	ACK		
	CASE B			→	UPDATE 2 (sendonly)		
	002 3			É	200 OK (UPDATE)		
			Apply post tes	_	,		

	I==	<u> </u>		<u> </u>		
TP number	TP_308_016	Referer	nce	7.4.10		
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 7.3.1/1 AND P	ICS 7.3.2/9 AND P	ICS 7.3.6/1			
Test Purpose name	'sendonly' and 'send	recv' received from	the terminating	SIP user in the early dialogue		
Test Purpose	Ensure that on recei	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream				
		CPG message is s	ent and the Ge	neric notification indicator is set to		
	'remote hold'.					
				rly dialogue and the media stream		
				ecv' in the received UPDATE, a		
	CPG message is ser	nt and the Generic	notification indic	cator is set to 'remote retrieval'		
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MC	GCF	ISUP		
	IAM	→	→	INVITE		
			←	100 Trying		
	ACM	←	+	180 Ringing		
				3 3		
	CPG(hold)	←	←	UPDATE(sendonly)		
			→	200 OK (UPDATE)		
	CPG(retrieve)	←	←	UPDATE(sendrecv)		
			→	200 OK (UPDATE)		
		Apply	post test rout	,		

TP number	TP_308_017	Reference		7.4.2		
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 7.3.1/1 AND PICS	PICS 7.3.1/1 AND PICS 7.3.2/9 AND PICS 7.3.6/1				
Test Purpose name	'sendonly' and 'sendrecy	' received from the originati	ing SIP u	ser in the early dialogue		
Test Purpose	is set to 'sendonly', a CF 'remote hold'. Ensure that on receipt of	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream is set to 'sendonly', a CPG message is sent and the Generic notification indicator is set to 'remote hold'. Ensure that on receipt of an UPDATE request in the early dialogue and the media stream is set to 'sendonly' the session is already set on hold, a CPG message is sent and the				
		cator is set to 'remote retriev		3		
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	→	→	IAM		
	180 Ringing	←	←	ACM		
	UPDATE(sendonly) 200 OK (UPDATE)	→ ←	→	CPG(hold)		
	UPDATE(sendrecv) 200 OK (UPDATE)	→	→	CPG(retrieve)		
		Apply post test re	outine			

TP number	TP_308_018	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/	•	•			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	PICS 7.3.1/1 AND PICS 7.3.2/9 AND PICS 7.3.6/1				
Test Purpose name	'hold' and 'retrieve' received fr	om the originating PSTN us	ser in the early dialogue			
Test Purpose	Ensure that on receipt of a CPG message and the Generic notification indicator is set to remote hold in the early dialogue, an UPDATE request is sent and der mediastream is set to 'sendonly'. Ensure that on receipt of a CPG message and the Generic notification indicator is set to remote retrieval and the session is already set on hold, an UPDATE request is sent and the media stream is set to 'sendrecy'					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →		INVITE 100 Trying			
	ACM ←		180 Ringing			
	CPG(hold) →		UPDATE(sendonly) 200 OK (UPDATE)			
	CPG(retrieve) →	←	UPDATE(sendrecv) 200 OK (UPDATE)			
		Apply post test routin	e			

6.2.9 Call Completion on busy subscriber

TP number	TP_309_001	Reference	7.4.11				
TSS reference	PSTN-SS/CCBS/	PSTN-SS/CCBS/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/1	10					
Test Purpose name	The diagnostic field is not inter-	vorked					
Test Purpose	Ensure that on receipt of an RE						
	to 'CCBS possible', a final SIP	response 486 Busy Here is s	sent no indication of CCBS				
	facility is present						
ISUP Parameter values	REL: Cause indicator CCBS po	ssible indicator=CCBS poss	sible				
SIP Parameter values							
Comments	The CCBS possible indicator is	contained in the diagnostic	field of the Cause indicator				
Message flows	Mg	MGCF	ISUP				
	INVITE →	→	IAM				
	100 Trying ←						
	486 Busy Here ←	←	REL(17)				
	ACK →	→	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 7.3.1/1 AND PICS 7.3.2/11				
Test Purpose name	CCNR possible indication received in an ACM, discarded				
Test Purpose	Ensure that on receipt of an ACM and a CCNR possible indicator is present the value set				
	to 'CCNR possible', a 180 Ringing is sent without indication of CCNR facility				
ISUP Parameter values	ACM: BCI called party status indicator=subscriber free, CCNR Possible Indicator=CCNR				
	possible				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	→	► IAM		
	100 Trying	←			
	180 Ringing	+	- ACM		
	Apply post test routine				

TP number	TP_310_001	Reference	7.4.12		
TSS reference	PSTN-SS/CCNR/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/11				
Test Purpose name	CCNR possible indication received in an CPG, discarded				
Test Purpose	Ensure that on receipt of an CPG and a CCNR possible indicator is present the value set to				
	'CCNR possible', a 180 Ringing is sent without indication of CCNR facility				
ISUP Parameter values	ACM: BCI called party status indicator=no indication, oBCI=inband info available				
	CPG: Event indicator= ALERTING, CCNR Possible Indicator=CCNR possible				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	→	IAM		
	100 Trying ←				
		←	ACM(no indication)		
	180 Ringing ←	←	CPG		
	Apply post test routine				

6.2.11 Terminal Portability (TP)

TP number	TP_311_001	Reference	e	7.4.13
TSS reference	PSTN-SS/TP/	•		
Selection criteria	PICS 7.3.1/1 AND PIC	S 7.3.2/12		
Test Purpose name	SUS user initiated is m	apped into an relN	IVITE SDP sendonl	у
Test Purpose	Ensure that on receipt	of an SUS messag	ge and the Suspend	/Resume indicator is set to
	'ISDN subscriber initiat	ed', a reINVITE is	sent and the media	stream indicated in the SDP is
	set to 'sendonly'			
ISUP Parameter values	SUS: Suspend/Resur	ne		
	ISDN subsc	riber initiated		
SIP Parameter values	INVITE: SDP			
	a=sendo	only		
Comments				
Message flows	Mg		MGCF	ISUP
	INVITE	→	→	IAM
	100 Trying	←		
	180 Ringing	←	←	ACM
	200 OK (INVITE)	←	+	ANM
	ACK	→		
	INVITE(sendonly)	←	+	SUS(user)
	200 OK (INVITE)	→		, ,
	ACK	←		
		Apply p	ost test routine	

TP number	TD 211 002		Reference	7.4.13			
	TP_311_002		Reference	[7.4.13			
TSS reference	PSTN-SS/TP/						
Selection criteria	PICS 7.3.1/1 AND PI						
Test Purpose name			to an reINVITE SDP se				
Test Purpose	was received. Ensure	that on re N subscril	ceipt of an RES messa ber initiated', a reINVIT	s set to 'ISDN subscriber initiated' age and the Suspend/Resume E is sent and the media stream			
ISUP Parameter values	RES: Suspend/Resu	ıme					
	ISDN subs	criber initia	ated				
SIP Parameter values	INVITE: SDP						
	a=send	drecv					
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM	→	→	INVITE			
			←	100 Trying			
	ACM	←	←	180 Ringing			
	ANM	←	+	200 OK (INVITE)			
	7 (I VIVI	•	→	ACK			
	INVITE(sendonly) 200 OK (INVITE) ACK	← → ←	←	SUS(user)			
	INVITE(sendrecv) 200 OK (INVITE) ACK	← →	←	RES(user)			
			Apply post test rout	tine			

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

TP number	TP_312_001	Reference	7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	/13				
Test Purpose name	I-MGCF: Session not on hold,	notification 'conference establis	shed'			
Test Purpose		A session at the I-MGCF is in the confirmed state and not on hold. Ensure that on receipt of a CPG message the Generic notification indicator is set to 'Conference established' no reINVITE is sent				
ISUP Parameter values	CPG: Generic notification Conference esta	phlichod				
CID Desembles values	Conference esta	abiisileu				
SIP Parameter values	T	NE LOBEN				
Comments	This state is applicable for CO	NF and 3PTY				
Message flows	Mg	MGCF	ISUP			
	INVITE -	→	IAM			
	100 Trying ←	•				
	180 Ringing	·	ACM			
	200 OK (INVITE)	=	ANM			
		← Apply post test routine	CPG			

TP number	TD 242 002	Reference		7 4 4 4
	TP_312_002	Reference		7.4.14
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.2/13		
Test Purpose name	O-MGCF: Session	not on hold, notification 'e	conference	established'
Test Purpose	A session at the O	-MGCF is in the confirme	d state and	not on hold. Ensure that on receipt
	of a CPG message	the Generic notification i	indicator is	set to 'Conference established' no
	reINVITE is sent			
ISUP Parameter values	CPG: Generic not	ification=		
	Conf	erence established		
SIP Parameter values				
Comments	This state is applic	able for CONF and 3PTY		
Message flows	Mg	MGCF		ISUP
	IAM	→	→	INVITE
			←	100 Trying
	ACM	←	←	180 Ringing
	7.0	-	_	
	ANM	←	←	200 OK (INVITE)
	/ ti vivi	•	÷	ACK
			•	AOR
	CPG	→		
	Ol G	-	4 4004 2014	ina
1	Apply post test routine			

TP number	TP_312_003	Reference	7.4.1	4
TSS reference	PSTN-SS/CONF/	•	•	
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2	/13		
Test Purpose name	I-MGCF: Session on hold, not	ification 'conference establishe	ed'	
Test Purpose	A session at the I-MGCF is in	the confirmed state and set on	hold. E	Ensure that on receipt of
	a CPG message the Generic	notification indicator is set to 'C	Conferer	nce established' a
	reINVITE request is sent the 'a	a' attribute in the SDP is set to	'sendre	ecv'
ISUP Parameter values	CPG 1: Generic notification			
	Remote hold			
	CPG 2: Generic notification			
	Conference esta	ablished		
SIP Parameter values	INVITE 1: SDP			
	a=sendonly			
	INVITE 2: SDP			
	a=sendrecv	E) (
Comments	This state is applicable for 3P			10115
Message flows	Mg	MGCF	• 14	ISUP
	INVITE	→	→ IA	AM
	100 Trying	←		ON A
	180 Ringing	~	← A	СМ
		_	← A	NIN 4
	200 OK (INVITE)	← →	~ A	NM
	ACK	7		
	INIVITE 4 (condent)	_	← C	PG 1
	INVITE 1 (sendonly)	(• 0	PG 1
	200 OK INVITE (recvonly)	→		
	ACK	+		
	INIVITE 2 (condrag)	_	← C	PG 2
	INVITE 2 (sendrecv)	← →	← C	PG 2
	200 OK INVITE (sendrecv)	7 ←		
	ACK	-		
		Apply post test routine		

TP number	TP_312_004	Reference		7.4.14		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 7.3.1/1 AND PIC	PICS 7.3.1/1 AND PICS 7.3.2/13				
Test Purpose name		hold, notification 'conferen				
Test Purpose				set on hold. Ensure that on receipt		
				set to 'Conference established' a		
		ent the 'a' attribute in the S	DP is s	set to 'sendrecv'		
ISUP Parameter values	CPG 1: Generic no					
	Remote					
	CPG 2: Generic no					
OID D		ence established				
SIP Parameter values	INVITE 1: SDP					
	a=send	ioniy				
	INVITE 2: SDP a=send	lro ov				
Comments	This state is applicable					
Message flows	Mg	MGCF		ISUP		
Wessage nows	IAM	→	→	INVITE		
	IAIVI	•	É	100 Trying		
	ACM	←	È	180 Ringing		
	/ COIVI	•	•	100 Kinging		
	ANM	←	←	200 OK (INVITE)		
	7 ti vivi	•	À	ACK		
			-	7.6.1		
	CPG 1	→	→	INVITE 1 (sendonly)		
			←	200 OK INVITE (recvonly)		
			→	ACK		
				-		
	CPG 2	→	→	INVITE 2 (sendrecv)		
			←	200 OK INVITE (sendrecv)		
			→	ACK `		
		Apply post tes	st routi			

TP number	TP_312_005	Reference	7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/					
Test Purpose name	I-MGCF: Session not on hold,		noctod'			
•	A session at the I-MGCF is in t					
Test Purpose						
	established. Ensure that on red		eneric notification indicator is			
	set to 'Conference disconnecte	d' no reinville is sent				
ISUP Parameter values	CPG 1: Generic notification					
	Conference esta	blished				
	CPG 2: Generic notification					
	Conference disc	onnected				
SIP Parameter values						
Comments	This state is applicable for CON	NF and 3PTY				
Message flows	Mg	MGCF	ISUP			
	INVITE ->	→	IAM			
	100 Trying ←					
	180 Ringing ←	+	ACM			
	200 OK (INVITE) ←	←	ANM			
	ACK →	=	7 (I VIVI			
	AOR					
		←	CDC 1			
	← CPG 1					
	4 0000					
			CPG 2			
		Apply post test routine				

TP number	TP_312_006	Reference	7.4.14		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	/13			
Test Purpose name	O-MGCF: Session not on hold	, notification 'Conference	disconnected'		
Test Purpose	A session at the O-MGCF is ir established. Ensure that on re set to 'Conference disconnecte	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	Mg	MGCF	ISUP		
	IAM → ACM ←	→ ←	INVITE 100 Trying 180 Ringing		
	ANM ←	← →	200 OK (INVITE) ACK		
	CPG 1 →				
	CPG 2 →	Apply post test routing	ne		

TP number	TP_312_007	Reference	7.4	4.14			
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/13						
Test Purpose name		I-MGCF: Session on hold, notification 'Conference disconnected'					
Test Purpose	A session at the I-MGCF is i established. Ensure that on set to 'Conference disconnected to 'sendonly'	n the confirmed state set on ho receipt of a CPG message the cted' a reINVITE request is sen	ld and Gene	d a conference is ric notification indicator is			
ISUP Parameter values	CPG 1: Generic notification Remote hold CPG 2: Generic notification Conference established CPG 3: Generic notification Conference disconnected						
SIP Parameter values	INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv INVITE 1: SDP a=sendonly						
Comments	This state is applicable for 3	PTY					
Message flows	Mg INVITE 100 Trying 180 Ringing	MGCF → ←	→	ISUP IAM ACM			
	200 OK (INVITE) ACK INVITE 1 (sendonly)	← → ←	+	ANM CPG 1			
	200 OK INVITE (recvonly) ACK INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)	←←	←	CPG 2			
	ACK INVITE 3 (sendonly) 200 OK INVITE (recvonly) ACK	← ← → Apply post test routine	←	CPG 3			

TP number	TP_312_008	Reference	7.4.14
TSS reference	PSTN-SS/CONF/		1
Selection criteria	PICS 7.3.1/1 AND PICS 7	7.3.2/13	
Test Purpose name		d, notification 'Conference disc	connected'
Test Purpose		is in the confirmed state set of	
	established. Ensure that of	on receipt of a CPG message t	the Generic notification indicator is
			sent the 'a' attribute in the SDP is
	set to 'sendonly'		
ISUP Parameter values	CPG 1: Generic notifica		
	Remote hol		
	CPG 2: Generic notifica		
		established	
	CPG 3: Generic notification	····	
		disconnected	
SIP Parameter values	INVITE 1: SDP		
	a=sendonly	•	
	INVITE 2: SDP	_	
	a=sendrecv	1	
	INVITE 1: SDP		
Comments	a=sendonly This state is applicable for		
Comments Message flows	Mg	MGCF	ISUP
wessage nows	Ivig	A conference is establi	
	IAM -	Connecence is established.	INVITE
	IAW	· · · · · · · · · · · · · · · · · · ·	100 Trying
	ACM	+ +	180 Ringing
	ACIVI	`	100 Kinging
	ANM	+	200 OK (INVITE)
	ANIVI	` →	ACK
		,	AOIC
	CPG 1	→	INVITE 1 (sendonly)
	01 0 1	+	200 OK INVITE (recvonly)
		→	ACK
		,	AOIC
	CPG 2	→	INVITE 2 (sendrecv)
	0.02	-	200 OK INVITE (sendrecv)
		÷	ACK
		•	7.0.0
	CPG 3	→	INVITE 3 (sendonly)
		+	200 OK INVITE (recvonly)
		→	ACK
		Apply post test routi	
	I .		

TP number	TP_312_009	Reference	7.	4.14	
TSS reference	PSTN-SS/CONF/	•	•		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/13				
Test Purpose name	I-MGCF: notification 'isolated'	and 'reattached' interworked			
Test Purpose	Generic notification indicator in the SDP is set to 'sendonly'.	s established. Ensure that on r is set to 'isolated' a reINVITE r Subsequently on receipt of a C reattached' a reINVITE reques	eque PG n	est is sent the 'a' attribute in message the Generic	
ISUP Parameter values	CPG 1: Generic notification				
SIP Parameter values	INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv				
Comments	This state is applicable for CC				
Message flows	Mg	MGCF		ISUP	
	INVITE 100 Trying	→ ← ←	→	IAM	
	180 Ringing	~	_	ACM	
	200 OK (INVITE) ACK	← →	←	ANM	
			←	CPG 1	
	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK	← → ←	←	CPG 2	
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	← → ← Apply post test routine	←	CPG 3	

TP number	TP_312_0	10	Reference	7.4.14			
TSS reference	PSTN-SS/			•			
Selection criteria	PICS 7.3.1	PICS 7.3.1/1 AND PICS 7.3.2/13					
Test Purpose name	O-MGCF: I	notification 'isolated'	and 'reattached' interv	vorked			
Test Purpose				hat on receipt of a CPG message the			
				VITE request is sent the 'a' attribute in			
				of a CPG message the Generic			
			eattached' a reINVITE	request is sent the 'a' attribute in the			
		to 'sendrecv'					
ISUP Parameter values	CPG 1:	Generic notification					
	0000	Conference esta	blished				
	CPG 2:	Generic notification					
	CPG 2:	isolated Generic notification					
	CPG 2:	reattached					
SIP Parameter values	INVITE 1:						
on rainteter values	IIIVIII I.	a=sendonly					
	INVITE 2:						
		a=sendrecv					
Comments	This state i	is applicable for CON	NF				
Message flows		Иg	MGCF	ISUP			
_	IAM	→	=	INVITE			
			•	₹ 100 Trying			
	ACM	←	•	180 Ringing			
	ANM	←	•				
			-	▶ ACK			
	CPG 1	→					
		_	_				
	CPG 2	→	-	INVITE 1 (sendonly)			
			_	200 OK INVITE (recvonly)			
			-	ACK			
	CDC a	_*	•	INIVITE O (condrant)			
	CPG 3	→		INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)			
			7				
			=	71011			
	<u> </u>		Apply post test rou	uune			

6.2.13 Closed User Group (CUG)

TP number	TP_313_001	Reference	7.4.16	
TSS reference	PSTN-SS/CUG/			
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	14		
Test Purpose name	oFCi CUG outgoing access all	owed call successful		
Test Purpose	Ensure that on receipt of an IA outgoing access allowed an IN			
ISUP Parameter values	IAM: Optional Forward Call in	ndicator: CUG with outgoing ac	ccess allowed	
SIP Parameter values				
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→	INVITE	
		←	100 Trying	
	Apply post test routine			

TP number	TP 313 002	Reference	7.4.16
TSS reference	PSTN-SS/CUG/		
Selection criteria	PICS 7.3.1/1 AND PICS	S 7 3 2/14	
Test Purpose name	oFCi CUG outgoing acc		
Test Purpose	Ensure that on receipt outgoing access not all the INVITE or a REL m	of an IAM the optional Forward	
ISUP Parameter values	IAM: Optional Forwar REL: Cause value (if s 29	d Call indicator: CUG with outg sent)	oing access not allowed
	Diagnostics=	CUG without access	
SIP Parameter values			
Comments			
Message flows	ISUP IAM CASE A	MGCF →	Mg
			→ INVITE← 100 Trying
		Apply post test routing	e
	CASE B		
	REL #29	←	
	RLC	→	

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

TP number	TP_314_001	Reference		7.4.17
TSS reference	PSTN-SS/MLPP/			
Selection criteria	PICS 7.3.1/1 AND F	PICS 7.3.2/15		
Test Purpose name	Precedence parame	eter received in IAM, disc	arded	
Test Purpose		ipt of an IAM and a Prece ffect the ongoing call setu		ter is present, this parameter is
ISUP Parameter values	IAM: Precedence	 		
SIP Parameter values				
Comments				
Message flows	ISUP	MGC	F	Mg
	IAM	→	→	INVITE
			←	100 Trying
		Apply post	test routine	

TP number	TP_314_002	Reference	7.4.17			
TSS reference	PSTN-SS/MLPP/	·				
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.2/15				
Test Purpose name	A REL cause #9 to	erminates an early dialogue				
Test Purpose	Cause value is se	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: Reasor	n: Q.850 [5]; cause=9				
Comments						
Message flows	ISUP	MGCF	Mg			
		A Session is already in early dialogue				
	REL	→	→ CANCEL			
	RLC	←	← 200 OK CANCEL			
			← 487 Request Terminated			
			→ ACK			

TP number	TP_314_002	Reference	7.4.17				
TSS reference	PSTN-SS/MLPP/						
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	15					
Test Purpose name	A REL cause #8 terminates an	early dialogue					
Test Purpose	Ensure that on receipt of a REL message in an early dialogue at the I-MGCF and the Cause value is set to '8', a 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 = 8						
SIP Parameter values	480: Reason: Q.850 [5]; caus	se=8					
Comments							
Message flows	Mg MGCF ISUP						
	A Session is already in early dialogue						
	480 Temporarily unavailable						
	ACK	→	→	RLC			

TP number	TP_314_002	Reference	7.4.17		
TSS reference	PSTN-SS/MLPP/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	15			
Test Purpose name	A REL cause #9 terminates a c	onfirmed dialogue			
Test Purpose	Ensure that on receipt of a REL message in a confirmed dialogue and the Cause value is set to '9', a BYE request is sent. A Reason header is contained in the BYE request and the cause value is set to '9'				
ISUP Parameter values	REL: Cause = 9				
SIP Parameter values	BYE: Reason: Q.850 [5]; caus	se=9			
Comments					
Message flows	Mg	MGCF	ISUP		
	A Session is already established				
	REL →	→	BYE		
	RLC ←	+	200 OK BYE		

6.2.15 Global Virtual Network Service (GVNS)

TP number	TP_315_001	Reference	7.4.18			
TSS reference	PSTN-SS/GVNS/					
Selection criteria	PICS 7.3.1/1 AND PICS 7	7.3.2/16				
Test Purpose name	Forward GVNS paramete	er in IAM discarded				
Test Purpose		an IAM containing a reques	et for GVNS service, the Forward oing call setup			
ISUP Parameter values	Forward GVNS Originating par GVNS user gro					
SIP Parameter values						
Comments						
Message flows	Mg IAM -	MGCF → Apply post test ro	ISUP → INVITE ← 100 Trying utine			

6.2.16 Reverse charging (REV)

TP number	TP_316_001	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 7.3.7/1 AND PICS 7.3.1	/1 AND PICS 7.3.2/17				
Test Purpose name	REV request from the calling u	user at the call set-up time				
Test Purpose	Ensure that on receipt of an IAM and a Remote Operation parameter is present containing a REVCallingReqSetup invoke component, the Remote Operation parameter is discarded without affect the ongoing call setup					
ISUP Parameter values	IAM: Called party number Remote Operation REVCallingReqSet transferReques callingUserNum	ted = true				
SIP Parameter values	_					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→ ← Apply post test routin	INVITE 100 Trying ne			

TP number	TP_316_002	Reference	7.4.20			
TSS reference	PSTN-SS/REV/	·	·			
Selection criteria	PICS 7.3.7/1 AND PICS 7	7.3.1/1 AND PICS 7.3.2/17	7			
Test Purpose name	REV request from the cal	ling user during the active	state of the call			
Test Purpose	Remote Operation param	Ensure that on receipt of a FAC message at the O-MGCF in the active state of a call and a Remote Operation parameter is present containing a REVCallingReqActive invoke component, the FAC message is discarded without affect the present call				
ISUP Parameter values	FAC: Remote Operation REVCallingReqActive invoke transferRequested = true callingUserNumber					
SIP Parameter values						
Comments						
Message flows		MGCF confirmed dialogue is alr → Apply post test r	•			

		Apply post test r	outine			
		← FAC				
		A confirmed dialogue is already established				
Message flows	Mg	MGCF	ISUP			
Comments						
SIP Parameter values						
	called	calledUserNumber				
		ferRequested = true				
	REVCall	edRequest invoke				
ISUP Parameter values	FAC: Remote Ope	eration	•			
		C message is discarded without				
		parameter is present containing				
Test Purpose			IGCF in the active state of a call and a			
Test Purpose name	REV request from t	he called user during the active	state of the call			
Selection criteria	PICS 7.3.7/1 AND F	PICS 7.3.1/1 AND PICS 7.3.2/17	7			
TSS reference	PSTN-SS/REV/					
TP number	TP_316_003	Reference	7.4.20			

TP number	TP_316_004	Refer	ence	7.4.20
TSS reference	PSTN-SS/REV/			
Selection criteria	PICS 7.3.7/2 AND PIC	CS 7.3.1/1 AND	PICS 7.3.2/17	
Test Purpose name	REV request in IAM e	xplicit rejected		
Test Purpose	containing REVCalling is supported, the SUT ANM a Remote C component set to REL a Remote O	gReqSetup invo sends in a: peration param rejectedByNetv peration parame	ke component and eter containing a l vork OR eter containing a R	te Operation parameter is present de the explicit rejection of this service REVCallingReqSetup return error REVCallingReqSetup return error the value is set to '29'
ISUP Parameter values	IAM: Called party no Remote Opera REVCalling transfer callingL ANM: Remote Opera REVCalling rejected REL: Cause 29 Remote Opera REVCalling REVCalling REVCalling	umber ution gReqSetup invol Requested = tru JserNumber ution gReqSetup retur dByNetwork ution gReqSetup retur	ke Je n error	
SIP Parameter values	rejected	ByNetwork		
Comments				
Message flows	ISUP		MGCF	Mg
Message nows	IAM CASE A	→		-
	ACM ANM	← ← App	→ ← ← → ly post test routi	INVITE 180 Ringing 200 OK INVITE ACK ne
	CASE B REL RLC	← →		

TP number	TP_316_005	R	eference	7.4.20		
TSS reference	PSTN-SS/REV/	•		•		
Selection criteria	PICS 7.3.7/2 AN	ID PICS 7.3.1/1 A	AND PICS 7.3.2/17			
Test Purpose name	REV request in	the active state e	xplicit rejected at the	e O-MGCF		
Test Purpose	and a Remote C component and	Ensure that on receipt of an FAC message at the O-MGCF in the active state of the call and a Remote Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a FRJ				
		note Operation pa o rejectedByNetv	rameter containing a vork	a REVCallingReq	Active return error	
ISUP Parameter values	REVO	FAC: Remote Operation REVCallingReqActive invoke transferRequested = true callingUserNumber FRJ: Remote Operation REVCallingReqActive return error rejectedByNetwork				
SIP Parameter values						
Comments						
Message flows	FAC	→	MGCF ed dialogue is alrea	ady established	Mg	
	FRJ	←	Apply post test ro	utine		

TP number	TP_316_006	Reference	7.4.20		
TSS reference	PSTN-SS/REV/				
Selection criteria	PICS 7.3.7/2 ANI	D PICS 7.3.1/1 AND PICS 7.3.2/17			
Test Purpose name	REV request in the	ne active state explicit rejected at the	I-MGCF		
Test Purpose	Ensure that on receipt of an FAC message at the O-MGCF in the active state of the call and a Remote Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a FRJ message a Remote Operation parameter containing a REVCalledRequest return error component set to rejectedByNetwork				
ISUP Parameter values	FAC: Remote C REVC tra cal FRJ: Remote C REVC	Operation alledRequest invoke nsferRequested = true lledUserNumber			
SIP Parameter values	1				
Comments					
Message flows	Mg	MGCF	ISUP		
		A confirmed dialogue is alrea ← Apply post test rou	FAC FRJ		

6.2.17 User-to-User Signalling (UUS)

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

TP number	TP_317_	_001	Refe	rence		7.4.21.1	.2
TSS reference	PSTN-SS	S/UUS/					
Selection criteria	PICS 7.3	3.1/1 AND PIC	CS 7.3.2/18				
Test Purpose name	User to u	ıser informati	on received in a	an INVITE is se	nt in an I	AM	
Test Purpose	'encoding	Ensure that on receipt of a User-to-User header field in an initial INVITE request and the 'encoding' parameter is set to 'hex' an ISUP IAM message is sent. A User-to-user parameter is present. The User Information is derived from the uuidata parameter of the SIP User-to-User header field and the ISUP User-to-user Protocol discriminator is set to '04'					
ISUP Parameter values	IAM: U	ser-to-user In	formation				
		User Inform	nation				
SIP Parameter values	INVITE:	User-to-Us	er: <uuidata>;</uuidata>	encoding=hex			
Comments							
Message flows		Mg		MGCF			ISUP
	INVITE		→		→	IAM	
	100 Tryir	ng	←				
	Apply post test routine						

TP number	TP_317_002	Reference	7.4.21.1.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	18			
Test Purpose name	User to user information receiv	ed in a Cancel is sent in a REL	-		
Test Purpose	Ensure that on receipt of a User-to-User header field in a CANCEL request and the 'encoding' parameter is set to 'hex' an ISUP REL message is sent. A User-to-user parameter is present. The User Information is derived from the uuidata parameter of the SIP User-to-User header field and the ISUP User-to-user Protocol discriminator is set to '04'				
ISUP Parameter values	REL: User-to-user Information	1			
	User Information				
SIP Parameter values	CANCEL: User-to-User: <uuida< th=""><th>ata>; encoding=hex</th><th></th></uuida<>	ata>; encoding=hex			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE ->	→	IAM		
	CANCEL → 200 OK CANCEL ←	→ ← Apply post test routine	REL RLC		

TP number	TP_317_003	Reference	7.4.21.1.2				
TSS reference	PSTN-SS/UUS/	PSTN-SS/UUS/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	18					
Test Purpose name	User to user information receiv	ed in a BYE is sent in a REL					
Test Purpose	Ensure that on receipt of a User-to-User header field in a BYE request after a confirmed dialogue was established and the 'encoding' parameter is set to 'hex' an ISUP REL message is sent. A User-to-user parameter is present. The User Information is derived from the uuidata parameter of the SIP User-to-User header field and the ISUP User-to-user Protocol discriminator is set to '04'						
ISUP Parameter values	REL: User-to-user Information	า					
	User Information	User Information					
SIP Parameter values	BYE: User-to-User: <uuidata></uuidata>	-; encoding=hex					
Comments							
Message flows	Mg	MGCF	ISUP				
	A confirmed dialogue is already established						
	BYE →	→	REL				
	200 OK BYE ←	+	RLC				

TP number	TP_317_0	04	Reference	7.4.21.1.3	
TSS reference	PSTN-SS/	UUS/			
Selection criteria	PICS 7.3.1	1/1 AND PICS 7.3.2/1	8		
Test Purpose name	User to us	er information receive	ed in an IAM is sent in an IN\	/ITE	
Test Purpose	Ensure that	at on receipt of User-t	to-user parameter contained	in an IAM, an INVITE request	
				parameter is derived from the	
	User Inforr	mation of the User-to-	-user parameter of the IAM, t	he encoding parameter is set	
	to 'hex'				
ISUP Parameter values	IAM: Use	er-to-user Information	1		
		User Information			
SIP Parameter values	INVITE: User-to-User: <uuidata>; encoding=hex</uuidata>				
Comments					
Message flows		Mg	MGCF	ISUP	
	IAM	→	→	INVITE	
			←	100 Trying	
			Apply post test routine		

TP number	TP_317_005	Reference	7.4.21.1.3		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	18			
Test Purpose name	User to user information receiv	ed in a REL is sent in a CANC	EL		
Test Purpose	Ensure that on receipt of User-to-user parameter contained in a REL before the dialogue is confirmed, a CANCEL request is sent and the User-to-User header is present. The uuidata parameter is derived from the User Information of the User-to-user parameter of the REL, the encoding parameter is set to 'hex'				
ISUP Parameter values	REL: User-to-user Information User Information	1			
SIP Parameter values	CANCEL: User-to-User: <uuid< th=""><th>ata>; encoding=hex</th><th></th></uuid<>	ata>; encoding=hex			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ ← →	INVITE 100 Trying CANCEL		
	RLC ←	← Apply post test routine	200 OK CANCEL		

TP number	TP_317_006	Reference	7.4.21.1.3			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	18				
Test Purpose name	User to user information receiv	ed in a REL is sent in a BYE				
Test Purpose	Ensure that on receipt of User-to-user parameter contained in a REL after the dialogue is confirmed, a BYE request is sent and the User-to-User header is present. The uuidata parameter is derived from the User Information of the User-to-user parameter of the REL, the encoding parameter is set to 'hex'					
ISUP Parameter values	REL: User-to-user Information User Information	า				
SIP Parameter values	CANCEL: User-to-User: <uuid< th=""><th>ata>; encoding=hex</th><th></th></uuid<>	ata>; encoding=hex				
Comments						
Message flows	Mg	MGCF	ISUP			
	A confirmed dialogue is already established					
	REL → BYE					
	RLC ←	←	200 OK BYE			
		Apply post test routine				

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

TP number	TP_317_101	Reference	7.4.21.2
TSS reference	PSTN-SS/UUS/	·	
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.2/18 AND NOT P	PICS 7.3.8/1
Test Purpose name	User-to-user indica	ator service 1 'not essential'	received in IAM, discarded
Test Purpose		eipt of an IAM and a User-tost is 'not essential' the call se	o-user indicator parameter for the service 1 is
ISUP Parameter values	IAM: User-to-use Reques not e User-to-use		otap to not alchaptou
SIP Parameter values			
Comments			
Message flows	Mg IAM ACM ANM	MGCF → ← Apply post	→ INVITE ← 180 Ringing ← 200 OK INVITE → ACK

TP number	TP_317_102	Re	ference	7.4.21.	2
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.2/18 A	AND PICS 7.3.8/1		
Test Purpose name	User-to-user indica response in ACM of		ot essential' received vided'	in IAM, User-t	o-user indicator
Test Purpose	present the reques	st is 'not essentia		disrupted A l	ter for the service 1 is Jser-to-user indicator
ISUP Parameter values	User-to-use User Inf ACM or ANM: User-to-use Respon	t service 1 essential er Information formation			
SIP Parameter values	1100	1011000			
Comments					
Message flows	Mg IAM ACM ANM	→ ← ←	MGCF	→ ACK	

TP number	TP 31	17 103	Reference	7.4.21.2			
TSS reference	PSTN	PSTN-SS/UUS/					
Selection criteria	PICS	7.3.1/1 AND PICS 7.3.2/	18 AND PICS 7.3.8/1				
Test Purpose name	User-t	o-user indicator service	1 'essential' received in IAM, ca	all is rejected			
Test Purpose	presei	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 1 is present the request is 'essential' the call setup is rejected. A REL is sent the Cause value is set to '29' the Diagnostics field contains the parameter name of the User-to-user indicator					
ISUP Parameter values	IAM: User-to-user Indicator Request service 1 essential User-to-user Information User Information REL: Cause indicator Cause 29						
SIP Parameter values		Diagnostics 42					
Comments							
Message flows		Mg	MGCF	ISUP			
	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	PICS 7.3.1/1 AND PICS 7.3.2/	18 AND NOT PICS 7.3.8/1	
Test Purpose name	User-to-user indicator service 2	2 'not essential' received in IAM	1, discarded
Test Purpose	Ensure that on receipt of an IAI	M and a User-to-user indicator	parameter for the service 2 is
-	present the request is 'not esse	ential' the call setup is not disru	pted
ISUP Parameter values	IAM: User-to-user Indicator		
	Request service 2		
	not essential		
	User-to-user Information	า	
	User Information		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	→	INVITE
		←	100 Trying
		Apply post test routine	-

TP number	TP_317_202	Reference	7.4.21.2		
TSS reference	PSTN-SS/UUS/		•		
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/	18 AND PICS 7.3.8/1			
Test Purpose name	User-to-user indicator service 2	2 'not essential' received in IAM	/l, User-to-user indicator		
	response in ACM or ANM 'not	provided'			
Test Purpose	Ensure that on receipt of an IA				
	present the request is 'not esse	ential', the call setup is not disr	upted A User-to-user indicator		
	is sent in an ACM or ANM with	a response for service 2 'not p	provided'		
ISUP Parameter values	IAM: User-to-user Indicator				
	Request service 2				
	not essential				
	User-to-user Information	n			
	User Information				
	ACM or ANM:				
	User-to-user Indicator				
	Response service 2				
	not Provided				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	ANM ←	←	200 OK INVITE		
		→	ACK		
	Apply post test routine				

TP number	TP_317_202	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 7.3.1/1 AND PICS 7.3.2/18 AND PICS 7.3.8/1					
Test Purpose name	User-to-user indicator service	User-to-user indicator service 2 'essential' received in IAM, call is rejected				
Test Purpose		AM and a User-to-user indicator				
		ial', the call setup is rejected. A				
	is set to '29' the Diagnostics findicator '42'	ield contains the parameter nam	e of the User-to-user			
ISUP Parameter values	IAM: User-to-user Indicator					
	Request service 2					
	essential					
	User-to-user Informati	on				
	User Information	User Information				
	REL: Cause indicator	REL: Cause indicator				
	Cause 29	Cause 29				
	Diagnostics 42					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →					
	REL ←					
	RLC →					

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

TP number	TP_317_301	Re	ference		7.4.21.2	
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 7.3.1/1 AND F	PICS 7.3.2/18 A	ND NOT PICS 7.	3.8/1		
Test Purpose name	User-to-user indicate	or service 3 'no	t essential' receiv	ed in IAN	M, discarded	
Test Purpose	Ensure that on recei	ipt of an IAM a	nd a User-to-user	indicator	r parameter fo	r the service 3 is
	present the request	is 'not essentia	al' the call setup is	not disru	upted	
ISUP Parameter values	IAM: User-to-user	Indicator				
	Request	Request service 3				
	not es	not essential				
	User-to-user	User-to-user Information				
	User Info	User Information				
SIP Parameter values						
Comments						
Message flows	Mg		MGCF		I	SUP
	IAM	→		→	INVITE	
				←	100 Trying	
		A	pply post test ro	outine		

TP number	TP_317_301	Re	ference	7.4.21.2
TSS reference	PSTN-SS/UUS/			
Selection criteria	PICS 7.3.1/1 AND	PICS 7.3.2/18 A	ND PICS 7.3.8/1	
Test Purpose name	User-to-user indic response in ACM			n IAM, User-to-user indicator
Test Purpose	present the reques	st is 'not essentia		cator parameter for the service 3 is t disrupted A User-to-user indicator 'not provided'
ISUP Parameter values	User-to-use User In ACM or ANM: User-to-use Respor	er Indicator st service 3 essential er Information formation er Indicator ase service 3 Provided		
SIP Parameter values	Hot	TTOVIACA		
Comments				
Message flows	Mg IAM ACM ANM	→ ← ←	MGCF pply post test routin	ISUP → INVITE ← 180 Ringing ← 200 OK INVITE → ACK

TP number	TP_31	7 301	Referen	ice	7.4.21.2	
TSS reference		<u>/</u>	11010101		11.1.21.2	
Selection criteria			7 2 2/10 AND I	DICC 7 2 0/1		
		PICS 7.3.1/1 AND PICS 7.3.2/18 AND PICS 7.3.8/1 User-to-user indicator service 3 'essential' received in IAM, call is rejected				
Test Purpose name	_					
Test Purpose	presen	t the request is 'es o '29' the Diagnost	sential', the ca	II setup is rejected. A	r parameter for the service 3 is REL is sent the Cause value ne of the User-to-user	
ISUP Parameter values	IAM:	User-to-user Indic	ator			
		Request service	ce 3			
		essential				
		User-to-user Information				
		User Information				
	RFI:	REL: Cause indicator				
		Cause 29				
		Diagnostics 42				
SIP Parameter values		Diagnostics 42				
Comments						
Message flows		Mg		MGCF	ISUP	
_	IAM	-	→	→	INVITE	
	ACM		(←	180 Ringing	
	ANM		-	-	200 OK INVITE	
	7 11 411		•	•	ACK	
			Annly	post test routine	AON	
			- ДРРІУ	post tost 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			after the IAM was sent, a 433
	(Anonymity Disallowed) final re	esponse is sent	
ISUP Parameter values	REL: Cause=24 (call rejected	due to ACR supplementary s	ervice)
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→ →	IAM
	100 Trying	←	
	433 (Anonymity Disallowed)	(REL
	ACK	→ →	RLC
		Apply post test routine	

TP number	TP_318_002	Reference	7.4.23
TSS reference	PSTN-SS/ACR/		
Selection criteria			
Test Purpose name	Receipt of 433		
Test Purpose	Ensure that on receipt	of a 433 (Anonymity Disallow	ved) final response after an initial
		ent, an ISUP REL cause #24	
ISUP Parameter values	REL: Cause=24 (call r	rejected due to ACR suppleme	entary service)
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM	→	→ INVITE
			← 100 Trying
	REL	←	← 433 (Anonymity Disallowed)
	RLC	→	→ ACK
		Apply post test re	outine

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/	IMS-SS/OIP-OIR/				
Selection criteria	PICS 7.3.3/1 AND PICS 7.3.2/1					
Test Purpose name	INVITE received. From header	not present, P-Asserted-Identif	y not present. Network			
	provided number is sent					
Test Purpose	Ensure that on receipt of an IN					
	From header does not contain		,			
	An Calling party number param	eter is present and the addres	s digits are provided by the			
	SUT					
ISUP Parameter values	IAM: Calling party Number					
	Number incomplete					
		cator=ISDN/Telephony (Recor	nmendation E.164 [i.1])			
	Nature of Address Indicator					
	If CC encoded in the URI is equal to the CC of the country where MGCF is					
	located AND the next BICC/ISUP node is located in the same country then					
	national (significant) number					
	else international	numbor				
		Screening indicator=Network Provided Presentation restriction=restricted or allowed				
		ided by the Network				
		al (significant) number" then se	t to "NDC" + "SN"			
		ational number" then set to "CC				
SIP Parameter values	INVITE: P-Asserted-Identity:	not present				
		ain a URI that encodes an E.16	64 address			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE ->	→	IAM			
	100 Trying ←					
		Apply post test routine				

TP number	TP_401_0	02	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/O	IP-OIR/				
Selection criteria	PICS 7.3.3	3/1 AND PICS 7.3.3/4	4 AND PICS 7.3.2/1			
Test Purpose name	INVITE re	ceived. From header	not present, P-Asserte	ed-Identity not present. Netw	ork	
		number is sent				
Test Purpose				serted-Identity is not present		
				n E.164 Address, an IAM is		
				address digits are provided l		
			on indicator is set to 'p	resentation restricted by net	work'	
ISUP Parameter values	IAM: Ca	lling party Number				
		Number incomplete				
				y (Recommendation E.164 [i	i.1] <i>)</i>	
		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					
			ificant) number			
		else				
		international number				
		Screening indicator=Network Provided				
			ion=presentation restr	cted by network		
			ided by the Network	"		
				"then set to "NDC" + "SN"		
olb b	15 15 // TE			et to "CC"+" NDC"+"SN"		
SIP Parameter values	INVITE:	P-Asserted-Identity:		E 404 11		
		From: does not cont	ain a URI that encodes	s an E.164 address		
Comments						
Message flows		Mg	MGCF	ISUP		
	INVITE	→		→ IAM		
	100 Trying	·				
			Apply post test ro	ıtine		

TD		ln (I = 4 = 0 0 4 0 0			
TP number	TP_401_003	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 7.3.3/2 AND I	PICS 7.3.2/1				
Test Purpose name	INVITE received. F	rom header not present, P-Asser	ted-Identity not present. Address digits			
	omitted					
Test Purpose	Ensure that on rece	eipt of an INVITE request the P-A	sserted-Identity is not present and the			
	From header does	not contain an URI that encodes	an E.164 Address, an IAM is sent.			
	A Calling party num	nber parameter is present and the	e address digits omitted			
ISUP Parameter values	IAM: Calling part					
	Number	incomplete indicator=Complete				
	Numberi	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
	Nature o	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					
		ational (significant) number	•			
	else	,				
	ir	nternational number				
	Screenir	ng indicator=Network Provided				
		ation restriction= restricted or allow	wed			
	Address	signal Address digits not present	t			
SIP Parameter values	1	ted-Identity: not present				
		oes not contain a URI that encode	es an E.164 address			
Comments						
Message flows	Mg	MGCF	ISUP			
-	INVITE	→	→ IAM			
	100 Trying	-				
		Apply post test ro	outine			
		Apply post test to	/utilio			

TP number	TP_401_004	Reference	7.5.1, 7.2	2.3.1.2.6
TSS reference	IMS-SS/OIP-OI	R/	•	
Selection criteria	PICS 7.3.3/2 AN	ND PICS 7.3.3/3 AND PICS 7.	3.2/1	
Test Purpose name	INVITE received 'Address not available.	d. From header not present, Paailable'	-Asserted-Identity not pres	sent APRI is set to
Test Purpose	From header do A Calling party	receipt of an INVITE request these not contain an URI that endommer parameter is present a striction indicator is set to 'Add	codes an E.164 Address, and the address digits om	an IAM is sent.
ISUP Parameter values	IAM: Calling	party Number		
	Numl Natu Scree Preso	ber incomplete indicator=Com bering Plan Indicator='000' re of Address Indicator='00000 ening indicator=Network Provi entation restriction=Address ne ess signal Address digits not p	000' ded ot available	
SIP Parameter values		serted-Identity: not present : does not contain a URI that (ancodes an E 164 addres	c
Comments	FIOII	i. does not contain a ONI that t	encodes an E.104 addres	5
Message flows	Mg INVITE 100 Trying	MG0 → ← Apply post	F → IAM test routine	ISUP
		Apply post	test ioutille	

TP number	TP_401_005	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 7.3.3/1 PICS 7	7.3.2/1				
Test Purpose name	INVITE received. Fr	om header present, P-Asserted-	Identity not present. Network provided			
	number is sent	·				
Test Purpose			sserted-Identity is not present and the			
		ns an URI that encodes an E.16				
			e address digits are provided by the			
			Generic number parameter and the			
		derived from the Userpart of the	e From header			
ISUP Parameter values	IAM: Calling party					
		ncomplete indicator=Complete				
			ny (Recommendation E.164 [i.1])			
		Address Indicator				
			he CC of the country where MGCF is			
			le is located in the same country then			
		tional (significant) number				
	else					
		ernational number				
		g indicator=Network Provided				
	Presentation restriction=restricted or allowed					
		signal provided by the Networl				
		A is "national (significant) number				
		A is ' <i>international number"</i> then	set to "CC"+" NDC"+"SN"			
		alling party number				
		Address Indicator				
			he CC of the country where MGCF is			
			le is located in the same country then			
		nal (significant) number				
	else	ational assessment				
		ational number				
		ncomplete indicator=Complete	ny (Pagammandation F 164 [; 1])			
		ig Plan indicator=15DN/Telepho tion restriction=restricted or allov	ny (Recommendation E.164 [i.1])			
		g indicator=user provided not ve				
		digits derived from the 'From' I				
		A is <i>national (significant) numbe</i>				
		A is " <i>international number"</i> set to				
SIP Parameter values		ed-Identity: not present	3 00 1 1120 1 011			
on randineter values		ntains a URI that encodes an E.	164 address			
Comments	1 10111. 001	The state of the s				
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	←	- 7 411			
	1.50 1171119	Apply post test re	outine			
	1	Apply post test it	VALIII V			

TSS reference Selection criteria Test Purpose name Test Purpose	INVITE received. Finumber is sent Ensure that on received from header contains A Calling party num SUT. The Presenta Additional calling Pasignals are derived	ipt of an INVITE request the P-A ns an URI that encodes an E.16 ber parameter is present and the tion restriction indicator is set to	-Identity not present. Network provided Asserted-Identity is not present and the 4 Address, an IAM is sent. e address digits are provided by the 'presentation restricted by network'. An
Test Purpose name	INVITE received. Finumber is sent Ensure that on received from header contains A Calling party num SUT. The Presenta Additional calling Pasignals are derived	rom header present, P-Asserted- sipt of an INVITE request the P-A ns an URI that encodes an E.16 sber parameter is present and the tion restriction indicator is set to	Asserted-Identity is not present and the 4 Address, an IAM is sent. e address digits are provided by the
•	INVITE received. Finumber is sent Ensure that on received from header contains A Calling party num SUT. The Presenta Additional calling Pasignals are derived	rom header present, P-Asserted- sipt of an INVITE request the P-A ns an URI that encodes an E.16 sber parameter is present and the tion restriction indicator is set to	Asserted-Identity is not present and the 4 Address, an IAM is sent. e address digits are provided by the
Test Purpose	From header contain A Calling party num SUT. The Presenta Additional calling Pasignals are derived	ns an URI that encodes an E.16 ber parameter is present and the tion restriction indicator is set to	4 Address, an IAM is sent. e address digits are provided by the
		from the Userpart of the From he resentation allowed	number parameter and the Address eader and the Presentation restriction
ISUP Parameter values	Numberi Nature o If CC locate na else in Screenin Presenta Address if NO If NO	incomplete indicator=Complete ng Plan Indicator=ISDN/Telepho f Address Indicator encoded in the URI is equal to the	k er" then set to "NDC" + "SN"
	locate natio. else interr Number Numberi Presenta Screenin Address if NO	ed AND the next BICC/ISUP node that (significant) number incomplete indicator=Complete and Plan Indicator=ISDN/Telephoration restriction=allowed grindicator=user provided not verificated the provided is national (significant) number A is "international number" set to	header <i>r</i> then set to "NDC" + "SN"
SIP Parameter values		ed-Identity: not present	404
Commonto	From: co	ntains a URI that encodes an E.	164 address
Comments Massage flows	Ma	MGCF	ISUP
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test ro	→ IAM

TP number	TP_401_007	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	•				
Selection criteria	PICS 7.3.3/2 AND	NOT PICS 7.3.3/5 AND PICS 7.3	3.2/1			
Test Purpose name	INVITE received.	From header present, P-Asserted	-Identity not present. Address digits			
	omitted					
Test Purpose			Asserted-Identity is not present and the			
			an E.164 Address, an IAM is sent.			
			e address digits omitted. An Additional			
			arameter and the Address signals are			
		Jserpart of the From header				
ISUP Parameter values	IAM: Calling pa	•				
		er incomplete indicator=Complete				
		•	ony (Recommendation E.164 [i.1])			
		of Address Indicator				
			the CC of the country where MGCF is			
			de is located in the same country then			
		national (significant) number				
	else					
		international number				
		ing indicator=Network Provided	d			
		Presentation restriction=restricted or allowed				
	Address signal Address digits not present Additional calling party number					
		Nature of Address Indicator				
			the CC of the country where MGCF is			
			de is located in the same country then			
		ional (significant) number	de is located in the same country then			
	else					
	international number					
	Number incomplete indicator=Complete					
	Number incomplete indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
		tation restriction=restricted or allo				
		ing indicator=user provided not ve				
		s digits derived from the 'From'				
		OA is national (significant) numbe				
	If N	OA is "international number" set to	o "CC"+' NDC'+'SN'			
SIP Parameter values		erted-Identity: not present				
	From: contains a URI that encodes an E.164 address					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	←				
		Apply post test r	outine			
		1171				

TP number	TP_401_0	08	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 7.3.3	PICS 7.3.3/2 AND PICS 7.3.3/5 AND PICS 7.3.1/2 AND PICS 7.3.2/1				
Test Purpose name	INVITE reomitted	INVITE received. From header present, P-Asserted-Identity not present. Address digits omitted				
Test Purpose	From head	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header does not contain an URI that encodes an E.164 Address, an IAM is sent. A Calling party number parameter is present and the address digits omitted. In addition, the				
		calling party numbe		daress digits offlitted. In addition, the		
ISUP Parameter values		lling party Number				
			indicator=Complete			
		Numbering Plan Inc	licator= <i>ISDN/Telephony</i>	(Recommendation E.164 [i.1])		
		Nature of Address I	ndicator			
				CC of the country where MGCF is		
		located AND the	e next BICC/ISUP node i	s located in the same country then		
		national (significant) number				
		else				
		international number				
		Screening indicator=Network Provided				
	Presentation restriction=restricted or allowed					
			ress digits not present			
			ty number not present			
SIP Parameter values	INVITE:	P-Asserted-Identity:	not present RI that encodes an E.16	1 address		
Comments		FIOITI. COTILATIIS a OI	Ri mai encodes an E. 16	4 address		
Message flows		Mg	MGCF	ISUP		
Message nows	INVITE	-)		→ IAM		
	100 Trying	=		✓ I/\lvi		
	Too rrying		Apply post test rout	tine		

TP number	TP 401 009	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference		IMS-SS/OIP-OIR/					
Selection criteria	PICS 7.3.2/1	PICS 7.3.2/1					
Test Purpose name	INVITE received. From	INVITE received. From header not present, P-Asserted-Identity present Privacy not present					
Test Purpose			serted-Identity is present and the				
			n E.164 Address a Privacy header is				
		not present, an IAM is sent.					
	A Calling party number	er parameter is present and the	address digits are derived from the				
	P-Asserted-Identity he		· ·				
ISUP Parameter values	IAM: Calling party	Number					
		complete indicator=Complete					
		•	y (Recommendation E.164 [i.1])				
		Address Indicator					
			e CC of the country where MGCF is				
			is located in the same country then				
		onal (significant) number					
	else						
		rnational 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"					
		is ' <i>international number"</i> then se					
SIP Parameter values		I-Identity: present	STID CC + INDC + SIN				
Sir raiailletei values		s not contain a URI that encodes	an F 164 address				
	Privacy not		s all L.104 addless				
Comments	1 HVdCy Hot	prosent					
Message flows	Mg	MGCF	ISUP				
	INVITE	→	→ IAM				
	100 Trying	←					
		Apply post test rou	utine				
		7.55.3 5000 100					

TP number	TP_401_0	0	Reference	7.5.1, 7.2	.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 7.3.2/1						
Test Purpose name	INVITE rec	eived. From header	not present, P-Asserted	-Identity present,	Privacy value		
	'none'						
Test Purpose			/ITE request the P-Asse				
		From header does not contain an URI that encodes an E.164 Address and a Privacy					
		resent set to 'none',					
	A Calling p	arty number parame	ter is present and the a	ddress digits are	derived from the		
			Presentation restriction	n is set to 'presen	tation 'allowed'		
ISUP Parameter values		ing party Number					
		Number incomplete i					
			cator=ISDN/Telephony	(Recommendatio	n E.164 [i.1])		
		Nature of Address In					
			the URI is equal to the				
			next BICC/ISUP node is	s located in the sa	ame country then		
	national (significant) number						
	else						
	international number						
		Screening indicator=Network Provided					
		Presentation restriction=allowed					
	,	Address signal derived from the P-Asserted-Identity					
		if NOA is "national (significant) number" then set to "NDC" + "SN"					
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN" INVITE: P-Asserted-Identity: present						
SIP Parameter values		P-Asserted-Identity:		104 - dd			
	From: does not contain a URI that encodes an E.164 address						
Comments		Privacy: none					
		Ma	MGCF		ISUP		
Message flows	INVITE	Mg	WIGCE	→ IAM	ISUF		
				7 IAW			
	100 Trying	+	Apply post tost rout	in a			
	Apply post test routine						

TP number	TP_401_011				
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 7.3.2/1				
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'id'				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
1.001.1 0.1 0.000	From header does not contain an URI that encodes an E.164 Address and a Privacy				
	header is present set to 'id', 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 party Number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
	Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted				
	Address signal derived from the P-Asserted-Identity				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
	If NOA is 'international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Identity: present				
	From: does not contain a URI that encodes an E.164 address				
	Privacy: id				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				

TP number	TP_401_0		Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 7.3.2/1						
Test Purpose name	INVITE rec	eived. From header	not present, P-Asserted-I	dentity present, Privacy value			
	'user'			•			
Test Purpose				ted-Identity is present and the			
		From header does not contain an URI that encodes an E.164 Address and a Privacy					
		resent set to 'user', a					
	A Calling p	arty number parame	ter is present and the add	dress digits are derived from the			
			Presentation restriction	is set to 'presentation 'restricted'			
ISUP Parameter values		ing party Number					
		Number incomplete					
				Recommendation E.164 [i.1])			
		Nature of Address In					
				C of the country where MGCF is			
				ocated 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"						
OID Deservations of the control of t	If NOA is 'international number" then set to "CC"+" NDC"+"SN"						
SIP Parameter values		P-Asserted-Identity:		Г 101 address			
	From: does not contain a URI that encodes an E.164 address						
Comments		Privacy: user					
		Ma	MGCF	ISUP			
Message flows	INIV/ITE	Mg	WIGGE				
	INVITE	→		→ IAM			
	100 Trying	+	Apply post toot				
	Apply post test routine						

TP number	TP_401_013	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/				
Selection criteria	PICS 7.3.2/1	PICS 7.3.2/1				
Test Purpose name	INVITE received. F	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'header'				
Test Purpose	From header does header is present s A Calling party num	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header does not contain an URI that encodes an E.164 Address and a Privacy header is present set to 'header', 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 part Number Numberi Nature o If CC locate na else in Screenin Presenta Address if NO	ty Number incomplete indicator=Complete ng Plan Indicator=ISDN/Telepe f Address Indicator encoded in the URI is equal to	thony (Recommendation E.164 [i.1]) to the CC of the country where MGCF is ode is located in the same country then serted-Identity ber" then set to "NDC" + "SN"			
SIP Parameter values		ed-Identity: present pes not contain a URI that enco header	odes an E.164 address			
Comments						
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test	ISUP → IAM routine			

TP number	TP_401_014	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 7.3.3/6 AND PICS 7.3.2/1				
Test Purpose name	INVITE received. From h	neader present, P-Asserte	d-Identity present. Privacy header not		
-	present, additional callin	g party number not omitte	d		
Test Purpose	From header contains a present, an IAM is sent.	n URI that encodes an E.1	-Asserted-Identity is present and the 64 Address a Privacy header is not		
	A Calling party number parameter is present and the address digits are derived from the P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation allowed'. An Additional calling Party number is sent in a Generic number parameter and the Address signals are derived from the Userpart of the From header the Presentation				
		t to 'presentation allowed'			
ISUP Parameter values					
150P Parameter values	IAM: Calling party Nu				
	Numbering Pl Nature of Add	lress Indicator	nony (Recommendation E.164 [i.1])		
	located Al		the CC of the country where MGCF is ode is located in the same country then		
	else				
	interna	itional number			
		licator=Network Provided			
		restriction=allowed			
		al derived from the P-As			
			ber" then set to "NDC" + "SN"		
			n set to "CC"+" NDC"+"SN"		
	Additional callin				
		Iress Indicator			
	located Al	ND the next BICC/ISUP no	the CC of the country where MGCF is ode is located in the same country then		
	national (s	significant) number			
		nal number			
		nal number nplete indicator=Complete			
	Numbering D	an Indicator–ISDN/Teleph	; nony (<i>Recommendation E.164</i> [i.1])		
		an indicator=13DN/Telept restriction=allowed	iony (Neconimendation E. 104 [i.1])		
		licator=user provided not	verified		
		derived from the 'From			
	if NOA is		er then set to "NDC" + "SN"		
SIP Parameter values		lentity: present			
		s a URI that encodes an I	E.164 address		
	Privacy not pr				
Comments	, ,				
Message flows	Mg	MGCF	ISUP		
-	INVITE	→	→ IAM		
	100 Trying	←			
		Apply post test	routine		
	1	: p., p = = . tool			

TP number	TP_401_015	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIF	R/	·			
Selection criteria	NOT PICS 7.3.3/6 AND PICS 7.3.2/1					
Test Purpose name			d-Identity present. Privacy header 'none',			
		g party number not omitted	, , , , , , , , , , , , , , , , , , , ,			
Test Purpose			Asserted-Identity is present and the			
			64 Address, an IAM is sent Privacy			
		nt set to 'none', an IAM is sent.	- · · · · · · · · · · · · · · · · · · ·			
			ne address digits are derived from the			
			tion indicator is set to 'presentation			
			t in a Generic number parameter and			
		the Address signals are derived from the Userpart of the From header the Presentation				
		ator is set to 'presentation allowed'.				
ISUP Parameter values	IAM: Calling p					
		per incomplete indicator=Complete				
		pering Plan Indicator=ISDN/Teleph				
		re of Address Indicator	2 7 (222 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	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			
		national (significant) number				
	el	se				
		international number				
	Scree	ening indicator=Network Provided				
		entation restriction=allowed				
	Addre	ess signal derived from the P-Ass	erted-Identity			
		NOA is "national (significant) numb				
		NOA is 'international number" then				
		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				
	If					
			de is located in the same country then			
		ational (significant) number	ŕ			
		se				
	in	ternational number				
	Numb	per incomplete indicator=Complete				
		pering Plan Indicator=ISDN/Teleph				
	Prese	entation restriction=allowed				
	Scree	ening indicator=user provided not v	erified			
		ess digits derived from the 'From'				
	if	NOA is national (significant) number	er then set to "NDC" + "SN"			
	If	NOA is "international number" set	to "CC"+' NDC'+'SN'			
SIP Parameter values		serted-Identity: present				
	From	: contains a URI that encodes an E	.164 address			
	Priva	cy: none				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	←				
		Apply post test	routine			

TP number	TP_401_016	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	NOT PICS 7.3.3/6 AND PICS 7.3.2/1					
Test Purpose name			ed-Identity present. Privacy header 'id',			
		g party number not omitted				
Test Purpose			-Asserted-Identity is present and the			
			164 Address, an IAM is sent Privacy			
		ent set to 'id', an IAM is sent.	,			
			the address digits are derived from the			
			ction indicator is set to 'presentation			
		restricted'. An Additional calling Party number is sent in a Generic number parameter ar				
			t of the From header the Presentation			
		ator is set to 'presentation restricte				
ISUP Parameter values	IAM: Calling					
		ber incomplete indicator=Complet	e			
			hony (Recommendation E.164 [i.1])			
		re of Address Indicator	, , , , , , , , , , , , , , , , , , , ,			
	If	CC encoded in the URI is equal to	the CC of the country where MGCF is			
			ode is located in the same country then			
		national (significant) number				
	e	lse				
		international number				
	Scre	ening indicator=Network Provided				
		entation restriction=restricted				
	Addr	ess signal derived from the P-As	serted-Identity			
		NOA is "national (significant) num				
		NOA is 'international number" the				
		nal calling party number				
		Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is				
	If					
			ode is located in the same country then			
		ational (significant) number	•			
		lse				
	iı	nternational number				
	Num	ber incomplete indicator=Complete	Э			
			nony (Recommendation E.164 [i.1])			
	Pres	entation restriction=restricted				
	Scre	ening indicator=user provided not	verified			
		ess digits derived from the 'From				
		NOA is national (significant) number				
	If	NOA is "international number" set	to "CC"+' NDC'+'SN'			
SIP Parameter values		serted-Identity: present				
	From	n: contains a URI that encodes an	E.164 address			
	Priva	acy: id				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	←				
		Apply post test	routine			

TP number	TP_401_017				
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 7.3.3/6 AND PICS 7.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'user',				
-	additional calling party number not omitted				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header contains an URI that encodes an E.164 Address, an IAM is sent Privacy header is present set to 'user', 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 is sent in a Generic number parameter and the Address signals are derived from the Userpart of the From header the Presentation restriction indicator is set to 'presentation restricted'				
ISUP Parameter values	IAM: Calling party Number				
	Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1]) Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted				
	Address signal derived from the P-Asserted-Identity				
	if NOA is "national (significant) number" then set to "NDC" + "SN"				
	If NOA is 'international number" then set to "CC"+" NDC"+"SN"				
	Additional calling party number				
	Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then national (significant) number				
	else				
	international number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
	Presentation restriction=restricted				
	Screening indicator=user provided not verified				
	Address digits derived from the 'From' header				
	if NOA is <i>national (significant) number</i> then set to "NDC" + "SN"				
CID Donomotor	If NOA is "international number" set to "CC"+' NDC'+'SN'				
SIP Parameter values	INVITE: P-Asserted-Identity: present From: contains a URI that encodes an E.164 address Privacy: user				
Comments					
Message flows	Mg MGCF ISUP				
_	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				
	· ·PP·/ Peer rear rearms				

TP number	TP_401_018	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	NOT PICS 7.3.3/6 AND PICS 7.3.2/1					
Test Purpose name		d. From header present, P-Asserted	d-Identity present. Privacy header			
		onal calling party number not omittee				
Test Purpose			Asserted-Identity is present and the			
•		ontains an URI that encodes an E.10				
		ent set to 'header', an IAM is sent.	,			
			ne address digits are derived from the			
		ntity header the Presentation restric				
			nt in a Generic number parameter and			
		the Address signals are derived from the Userpart of the From header the Presentation				
		ator is set to 'presentation restricted				
ISUP Parameter values	IAM: Calling					
		ber incomplete indicator=Complete				
	Num	bering Plan Indicator=ISDN/Teleph	onv (Recommendation E.164 [i.1])			
		re 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			
		national (significant) number				
	e	lse				
		international number				
	Scre	ening indicator=Network Provided				
		entation restriction=restricted				
	Addr	ess signal derived from the P-Ass	erted-Identity			
		NOA is "national (significant) numb				
		NOA is ' <i>international number"</i> then				
		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				
	If					
			de is located in the same country then			
		ational (significant) number	·			
		lse				
	iı	nternational number				
	Num	ber incomplete indicator=Complete				
		bering Plan Indicator=ISDN/Telepho	ony (Recommendation E.164 [i.1])			
	Pres	entation restriction=restricted				
	Scre	ening indicator=user provided not ve	erified			
		ess digits derived from the 'From'				
		NOA is national (significant) number				
	If	NOA is "international number" set t	to "CC"+' NDC'+'SN'			
SIP Parameter values		serted-Identity: present				
	From	n: contains a URI that encodes an E	.164 address			
	Priva	acy: header				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	←				
		Apply post test i	outine			
		Apply pool tool i	~~····			

TP number	TP_401_019	Reference	7.5.1, 7.2.3.1.2.6
TSS reference	IMS-SS/OIP-OIR/		
Selection criteria	PICS 7.3.3/6 AND PICS 7.3.2/1		
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header not		
	present, additional calling party number omitted		
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the		
	From header contains an URI that encodes an E.164 Address a Privacy header is not		
	present, an IAM is sent.		
	A Calling party number parameter is present and the address digits are derived from the		
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation		
	allowed'. An Additional calling Party number parameter is not present		
ISUP Parameter values	IAM: Calling party Number		
	Number incomplete indicator=Complete		
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])		
	Nature of Address Indicator		
	If CC encoded in the URI is equal to the CC of the country where MGCF is		
	located AND the next BICC/ISUP node is located in the same country then		
	national (significant) number		
	else		
	international number		
	Screening indicator=Network Provided Presentation restriction=allowed		
	Address signal derived from the P-Asserted-Identity		
	if NOA is "national (significant) number" then set to "NDC" + "SN"		
	If NOA is 'international number" then set to "CC"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asserted-Identity: present		
Sir raiametei values	From: contains a URI that encodes an E.164 address Privacy not present		
Comments	1 HVdey Hot present		
Message flows	Mg	MGCF	ISUP
	INVITE -		IAM
	100 Trying		17 (14)
	Apply post test routine		
	Apply post test routine		

TP number	TP_401_020	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	·				
Selection criteria	PICS 7.3.3/6 AND F	PICS 7.3.2/1				
Test Purpose name	INVITE received. Fi	rom header present, P-Asserted	-Identity present. Privacy header 'none',			
	additional calling pa	arty number omitted				
Test Purpose	Ensure that on rece	eipt of an INVITE request the P-A	Asserted-Identity is present and the			
			4 Address a Privacy header is set to			
	'none', an IAM is se					
			e address digits are derived from the			
			ion indicator is set to 'presentation			
		onal calling Party number parame	eter is not present			
ISUP Parameter values	IAM: Calling part					
		Number incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
	Nature of Address Indicator					
			he CC of the country where MGCF is			
			de is located in the same country then			
		ational (significant) number				
	else	nternational number				
		Screening indicator=Network Provided Presentation restriction=allowed				
		Address signal derived from the P-Asserted-Identity				
		A is "national (significant) number				
		OA is ' <i>international number"</i> then				
SIP Parameter values		ted-Identity: present	00110 00 1 1100 1 011			
		ontains a URI that encodes an E.	164 address			
		Privacy: none				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	←				
		Apply post test re	outine			

TP number	TP_401_021	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 7.3.3/6 AND	D PICS 7.3.2/1					
Test Purpose name	INVITE received.	From header present, P-Asserted	l-Identity present. Privacy header 'id',				
		party number omitted					
Test Purpose	Ensure that on re-	ceipt of an INVITE request the P-	Asserted-Identity is present and the				
	From header conf	tains an URI that encodes an E.16	64 Address a Privacy header is set to				
	'id', an IAM is sen	, an IAM is sent.					
			e address digits are derived from the				
	P-Asserted-Identi	ty header the Presentation restrict	tion indicator is set to 'presentation				
		ditional calling Party number para	meter is not present				
ISUP Parameter values	IAM: Calling pa						
		er incomplete indicator=Complete					
		Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
	Nature of Address Indicator						
			the CC of the country where MGCF is				
			de is located in the same country then				
		national (significant) number					
	else						
		international number					
		Screening indicator=Network Provided					
		Presentation restriction=restricted					
		ss signal derived from the P-Ass					
		IOA is "national (significant) numb					
olb b		IOA is 'international number" then	set to "CC"+" NDC"+"SN"				
SIP Parameter values		erted-Identity: present					
	From: contains a URI that encodes an E.164 address						
	Privacy	y: ia					
Comments		1100=	IOLID				
Message flows	Mg	MGCF	ISUP				
	INVITE	→	→ IAM				
	100 Trying	←					
		Apply post test r	outine				

TP number	TP_401_022	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/	·	·				
Selection criteria	PICS 7.3.3/6 AND PICS	7.3.2/1					
Test Purpose name	INVITE received. From h	eader present, P-Asserted-	Identity present. Privacy header 'user',				
	additional calling party nu	umber omitted					
Test Purpose	Ensure that on receipt of	an INVITE request the P-A	sserted-Identity is present and the				
		URI that encodes an E.16	4 Address a Privacy header is set to				
	'user', an IAM is sent.						
			e address digits are derived from the				
			on indicator is set to 'presentation				
		restricted'. An Additional calling Party number parameter is not present					
ISUP Parameter values	IAM: Calling party Number						
	Number incomplete indicator=Complete						
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])						
	Nature of Address Indicator						
			he CC of the country where MGCF is				
			e is located in the same country then				
		ıl (significant) number					
	else						
		tional number					
		cator=Network Provided					
		estriction=restricted	4. 111				
		derived from the P-Asse					
			er" then set to "NDC" + "SN"				
OID Developed		international number" then s	Set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Ide		404				
		s a URI that encodes an E.	164 address				
Comments	Privacy: user						
Comments Message flavo	Ma	MGCF	ISUP				
Message flows	Mg						
	INVITE	→	→ IAM				
	100 Trying	-	outing				
	Apply post test routine						

TP number	TP_401_023	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 7.3.3/6 AND PICS	S 7.3.2/1					
Test Purpose name	INVITE received. From	header present, P-Asserted-I	dentity present. Privacy header				
	'header', additional call	ing party number omitted					
Test Purpose			serted-Identity is present and the				
	From header contains	an URI that encodes an E.164	Address a Privacy header is set to				
	'header', an IAM is sen	der', an IAM is sent.					
			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 N						
		Number incomplete indicator=Complete					
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])						
	Nature of Address Indicator						
			e CC of the country where MGCF is				
			e is located in the same country then				
		nal (significant) number					
	else						
		national number					
		ndicator=Network Provided nestriction=restricted					
		nal derived from the P-Asser	tod-Identity				
		"national (significant) number					
		s 'international number" then s					
SIP Parameter values		Identity: present	et to OO + NDO + ON				
on raramotor varaco		ins a URI that encodes an E.1	64 address				
	Privacy: header						
Comments	i iivasy: iiea						
Message flows	Mg	MGCF	ISUP				
	INVITE	→	→ IAM				
	100 Trying	É	- 2 001				
	Apply post test routine						
	1	rippiy poor tost to					

TP number	TP_401_024	Re	ference		7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIF	IMS-SS/OIP-OIR/				
Selection criteria	PICS 7.3.2/1					
Test Purpose name			, Additional callin	g party nu	ımber not received,	
	unavailable Fron	m header is sent				
Test Purpose	Ensure that on r	eceipt of an IAM a	nd no Calling pa	rty numbe	er and no Additional calling	
	party number is	present, an INVIT	E is sent. A P-As	serted-Ide	entity is not present and the	
	URI of the From	header is set to 's	sip:unavailable@u	unknown.	invalid'	
ISUP Parameter values	IAM: Calling pa	arty number not pi	resent			
	Generic r	number (Additiona	I calling party nui	mber) not	present	
SIP Parameter values	INVITE: From:	: sip:unavailable@	unknown.invalid			
	P-Ass	serted-Identity not	present			
Comments						
Message flows	Mg		MGCF		ISUP	
	IAM	→		→	INVITE	
				←	100 Trying	
	Apply post test routine					

TP number	TP_401_025	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 7.3.2/1			
Test Purpose name	Calling party number not received.		mber received presentation	
Test Purpose	allowed, From header containing a E.164 URI is sent 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	Mg	MGCF	ISUP	
	IAM →	→	INVITE	
		←	100 Trying	
		Apply post test routine		

TP number	TP_401_02	26	Reference		7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OIF	IMS-SS/OIP-OIR/					
Selection criteria	PICS 7.3.2/	/1					
Test Purpose name		y number not receiv unavailable From he		party nu	ımber received presentation		
Test Purpose	Ensure that on receipt of an IAM and no Calling party number and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to 'sip:unavailable@unknown.invalid'						
ISUP Parameter values	IAM: Calling party number not present Generic number (Additional calling party number) present presentation restricted						
SIP Parameter values		rom: sip:unavailable-Asserted-Identity	e@unknown.invalid not present				
Comments							
Message flows	M	lg	MGCF		ISUP		
	IAM	→		→	INVITE		
				←	100 Trying		
			Apply post test rou	utine			

TP number	TD 404 007	Reference	75470000			
	TP_401_027		7.5.1, 7.2.3.2.2.3			
TSS reference	IMS-SS/OIP-O	IR/				
Selection criteria	PICS 7.3.2/1					
Test Purpose name		umber received presentation allow serted-Identity header and From h	ed, Additional calling party number not eader are sent			
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'					
ISUP Parameter values	IAM: Calling p	party number present presentation	allowed			
	Generic	number (Additional calling party r	umber) 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	Mg MGCF ISUP					
_	IAM	→	→ INVITE			
	← 100 Trying					
		Apply post tes	, ,			

TP number	TP_401_02	28 R	eference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIF	P-OIR/			
Selection criteria	PICS 7.3.2/	1			
Test Purpose name			esentation allowed, Addition -Asserted-Identity header a		
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		• • •	ent presentation allowed al calling party number) pre	sent presentation allowed	
SIP Parameter values	INVITE: From derived from the additional calling party number P-Asserted-Identity derived from the additional calling party number Privacy not 'id' or Privacy header not present				
Comments					
Message flows	IAM	lg →	MGCF → ←	ISUP INVITE 100 Trying	
			Apply post test routine	, ,	

TP number	TP 401 029	Reference		7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIF			1.0.1, 7.2.0.2.2.0	
Selection criteria	PICS 7.3.2/1	V			
		 			
Test Purpose name		mber received presentation allowed			
	received presen	tation restricted, P-Asserted-Identity	/ header	and From header are sent	
Test Purpose	Ensure that on r	eceipt of an IAM and a Calling party	number	Presentation restriction	
-	indicator is set to	o 'presentation allowed' and an Addi	itional ca	lling party number is present	
		restriction indicator is set to 'preser			
		entity is present the URI is derived f			
		nd the URI of the From header is de			
		mber. A Privacy header is not preser			
		liber. A Privacy fleader is not preser	it of it pr	esent the value is not equal to	
IOUR D	'id'				
ISUP Parameter values	• .	arty number present presentation al			
	Generic number (Additional calling party number) present presentation restricted				
SIP Parameter values	INVITE: From	derived from the calling party numb	er		
	P-Ass	serted-Identity derived from the calling	ng party	number	
	Privacy not 'id' or Privacy header not present				
Comments					
Message flows	Mq	MGCF		ISUP	
S .	IAM	→	→	INVITE	
	← 100 Trying				
	9				
	Apply post test routine				

TP number	TP_401_	030	Reference	7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/C	DIP-OIR/				
Selection criteria	PICS 7.3.	PICS 7.3.2/1				
Test Purpose name			oresentation restricted, Addition	onal calling party number not ent		
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is ser to 'sip:anonymous@anonymous.invalid'. A Privacy header is present the value is equal to 'id'					
ISUP Parameter values			esent presentation restricted onal calling party number) not	present		
SIP Parameter values	INVITE: From: sip:anonymous@anonymous.invalid P-Asserted-Identity derived from the calling party number Privacy: 'id'					
Comments						
Message flows	IAM	Mg →	MGCF → ← Apply post test routine	ISUP INVITE 100 Trying		

TP number	TP_401_031	Reference		7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/	·		·	
Selection criteria	PICS 7.3.2/1				
Test Purpose name		ber received presentation restricted tion allowed, P-Asserted-Identity			
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation allowed', an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the additional calling party number. A Privacy header is present the value is equal to 'id'				
ISUP Parameter values		ty number present presentation re imber (Additional calling party nur		sent presentation allowed	
SIP Parameter values	INVITE: From derived from the additional calling party number P-Asserted-Identity derived from the calling party number Privacy: 'id'				
Comments					
Message flows	Mg	MGCF		ISUP	
	IAM	→	→	INVITE	
			←	100 Trying	
		Apply post test r	outine		

TP number	TP_401_0	32	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OI	IP-OIR/		•	
Selection criteria	PICS 7.3.2	2/1			
Test Purpose name			presentation restricted, Addi d, P-Asserted-Identity heade	tional calling party number r and From header are sent	
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is set to the value 'sip:anonymous@anonymous.invalid'. A Privacy header is present the value is equal to 'id'				
ISUP Parameter values	IAM: Calling party number present presentation restricted Generic number (Additional calling party number) present presentation restricted				
SIP Parameter values	INVITE:	From: sip:anonymou	us@anonymous.invalid derived from the calling party	•	
Comments					
Message flows	ı	Иg	MGCF	ISUP	
	IAM	→	→	INVITE	
			+	100 Trying	
			Apply post test routine		

TP number	TP_401_03	33	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OI	P-OIR/			
Selection criteria	PICS 7.3.2	/1			
Test Purpose name	Calling par	ty number received p	presentation restricted by th	e network, Additional calling	
		er not received, Fron			
Test Purpose			I and a Calling party number		
				nd an Additional calling party	
	number is i	not present, an INVIT	ΓE is sent. A P-Asserted-Ide	entity is not present and the URI	
	of the From	n header is set to the	value 'sip: unavailable @h	ostportion'. A Privacy header is	
	not present	t or if present the val	ue is not equal to 'id'		
ISUP Parameter values			esent presentation restricted		
	Generic number (Additional calling party number) not present				
SIP Parameter values	INVITE:	From: sip:unavailable	e@hostportion		
	P-Asserted-Identity not present				
	Privacy not 'id' or Privacy header not present				
Comments	The 'hostportion' is implementation dependent				
Message flows	Mg MGCF ISUP				
	IAM	→	-	INVITE	
			•	- 100 Trying	
			Apply post test routine		

TP number	TP_401_03	34	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OII	IMS-SS/OIP-OIR/			
Selection criteria	PICS 7.3.2/	/1			
Test Purpose name			presentation restricted by thation allowed, From header	e network, Additional calling is sent	
Test Purpose	indicator is number is p INVITE is s derived fror	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted by the network' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation allowed', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is derived from the address signals of the additional calling party number. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values					
SIP Parameter values	INVITE: F				
Comments					
Message flows	IAM	lg →	MGCF →		
			Apply post test routine		

TP number	TP 401 0	35	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/O	IP-OIR/		, , , , , , , , , , , , , , , , , , ,	
Selection criteria	PICS 7.3.2	2/1			
Test Purpose name			oresentation restricted bation restricted, From he	by the network, Additional calling eader is sent	
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted by the network' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to the value 'sip: unavailable@hostportion'. A Privacy header is not present or if present the value is not equal to 'id'				
ISUP Parameter values	IAM: Calling party number present presentation restricted by the network				
	Generic number (Additional calling party number) present presentation restricted				
SIP Parameter values	INVITE: From: sip: unavailable@hostportion P-Asserted-Identity not present Privacy not 'id' or Privacy header not present				
Comments	The 'hostportion' is implementation dependent				
Message flows	Mg MGCF ISUP				
	IAM	→		→ INVITE	
	← 100 Trying				
			Apply post test rout	ine	

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 7.3.1/2 AND	D PICS 7.3.2/2				
Test Purpose name	INVITE is sent the	e supported header contains the	option tag 'from-change'			
Test Purpose			ted Line Identity Request indicator in the			
			to 'requested', an INVITE is sent and the			
	Supported heade	er contains the option tag 'from-cl	hange'			
ISUP Parameter values	IAM: Optional F	Forward Call Indicators				
	Conne	Connected Line Identity Request = requested				
SIP Parameter values	INVITE: Supported: from-change					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	→	→ INVITE			
		← 100 Trying				
		Apply post test routine				

TP number	TP_402_002	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/	•	<u>.</u>				
Selection criteria	PICS 7.3.1/2 AND PICS 7.	3.2/2					
Test Purpose name	'from-change' tag not inclu	ded in a received provisiona	l response				
Test Purpose		provisional response and the the 200 OK (INVITE) is rec	e 'from-change' tag is not included eived				
ISUP Parameter values		IAM: Optional Forward Call Indicators Connected Line Identity Request = requested					
SIP Parameter values	INVITE: Supported: from-change 180: from-change tag not included in the Supported header						
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM -	•	→ INVITE				
	ACM ← 180 Ringing						
	ANM ← 200 OK (INVITE)						
		→ ACK					
		Apply post test rout	ine				

TP number	TP_402_003	Re	eference	7.5.2			
TSS reference	IMS-SS/TIP-TI	R/					
Selection criteria	PICS 7.3.1/2 A	ND PICS 7.3.2/2					
Test Purpose name	'from-change' t	ag not included in a	a received final response				
Test Purpose		Ensure that on receipt of a final successful response and the 'from-change' tag is not included the ANM is sent					
ISUP Parameter values	IAM: Optiona	I Forward Call Indic	cators				
	Con	nected Line Identity	y Request = requested				
SIP Parameter values		INVITE: Supported: from-change					
	200: from-change tag not included in the Supported header						
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM	→	→	INVITE			
	ACM ← 180 Ringing						
	ANM ← 200 OK (INVITE)						
		→ ACK					
	Apply post test routine						

TP number	TP_402_004	Reference	7.5.2			
TSS reference	IMS-SS/TIP-TIF	₹/				
Selection criteria	PICS 7.3.1/2 At	PICS 7.3.1/2 AND PICS 7.3.2/2				
Test Purpose name		ag included in a received provisior				
Test Purpose		Ensure that on receipt of a provisional response and the 'from-change' tag is included the timer T_{TIR1} is started. The ANM is sent as soon as the UPDATE request is received and a				
	present. The ad	dditional connected number is cod	set to 'additional connected number' is ed as follows:			
		ddress Indicator	toto OUT is lessed AND the country			
		equal to the country code of the code is located in the same country.	ountry where SUT is located AND the next			
	"nati	onal (significant) number"	then set to			
	else set					
		rnational number"				
		omplete Indicator = complete) numbering plan (Recommendation			
	<i>E.164</i> [i.1])	Fian indicator = 13DN (Telephony) numbering plan (Neconlinendation			
		esentation Restricted Indicator = F	Privacy_VA as indicate in table 6.3.2-1			
		ndicator = user provided, not verifi				
		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				
		ntity in UPDATE request				
ISUP Parameter values		Forward Call Indicators				
	Connected Line Identity Request = requested ANM: Connected number					
	Generic number - additional connected number					
SIP Parameter values		oorted: from-change	imbei			
Sir raiameter values		ange tag included in the Supporte	d header			
Comments	Too. Hom one	arigo tag irioladea iri tile eupperter	a floadoi			
Message flows	Mg	MGCF	ISUP			
	IAM	→	→ INVITE			
	ACM	←	← 180 Ringing			
		T _{TIR1} started	← 200 OK (INVITE)			
		TIIXI	→ ACK			
	ANM	←	← UPDATE			
			→ 200 OK (UPDATE)			
		Apply post tes	· · · · · · · · · · · · · · · · · · ·			

TP number	TP_402_005	Reference	7.5.2			
TSS reference	IMS-SS/TIP-TIR/	·				
Selection criteria	PICS 7.3.1/2 AND PICS 7	7.3.2/2				
Test Purpose name	'from-change' tag included	in a received final respor	nse			
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 is received			
			ator set to 'additional connected			
	number' is present. The ac		er is coded as follows:			
	Nature of Address Indi					
			ntry where SUT is located AND the next			
		ed in the same country, th	en set to			
	"national (signif	ncant) number				
	"international n	umber				
	Number Incomplete Inc					
			numbering plan (Recommendation			
	E.164 [i.1])		(
		Restricted Indicator = Priv	vacy_VA as indicate in table 6.3.2-1			
		user provided, not verified				
	Address Signals					
	If NOA is "national (significant) number" then set to NDC + SN. If NOA is "international number" then set to CC + NDC + SN					
			ess signal are derived from the			
ICUD Devementes vielvies	P-Asserted-Identity in UPI					
ISUP Parameter values	IAM: Optional Forward C		ata d			
	Connected Line Identity Request = requested ANM: Connected number					
	Generic number - additional connected number					
SIP Parameter values	INVITE: Supported: from		501			
		cluded in the Supported h	eader			
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM -	→	→ INVITE			
	ACM	-	← 180 Ringing			
		T _{TIR1} started ← 200 OK (INVITE)				
			→ ACK			
	ANM	-	← UPDATE			
			→ 200 OK (UPDATE)			
		Apply post test re	outine			

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

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

TP number	TP_402_005	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/	IMS-SS/TIP-TIR/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	2					
Test Purpose name	Timer T _{TIR1} expires						
Test Purpose	Ensure that on receipt of a 200 Supported header the timer T _T						
ISUP Parameter values	·	Connected Line Identity Request = requested					
SIP Parameter values	• • • • • • • • • • • • • • • • • • • •	3.					
Comments							
Message flows		MGCF → ← T _{TIR1} started ← ¬	ISUP INVITE 180 Ringing 200 OK (INVITE) ACK				
		Apply post test routine					

TP number	TP_402_001	Reference	7.5.2			
TSS reference	IMS-SS/TIP-TIR/	•	•			
Selection criteria	PICS 7.3.1/2 AND PIC	S 7.3.2/2				
Test Purpose name	Interworking of SIP Su	pported header into Optiona	al forward call indicator			
Test Purpose	Ensure that on receipt of an INVITE request and the Supported header contains the 'from-change' tag, an IAM is sent. The Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested'					
ISUP Parameter values						
SIP Parameter values	INVITE: Supported: from-change					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → IAM					
	100 Trying	←				
	Apply post test routine					

TP number	TP_402_001	Reference	7.5.2
TSS reference	IMS-SS/TIP-TIR/	•	•
Selection criteria	PICS 7.3.1/2 AND PICS 7	.3.2/2	
Test Purpose name			tion allowed into the From header in an
Test Purpose	Ensure that on receipt of an ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described below Generic number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used "international number" Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation allowed then no Privacy header present or not "header" or not "user" Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used		
	The P-Asserted-Identity is derived from the Connected number as follows Connected number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used "international number" Map complete Connected Number Address Signals used prefixed with a "+" is portion of URI scheme used Address Presentation restriction indicator presentation restricted then no Privacy header present or not "header" or not "use 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	INVITE: Supported: from-change 200 OK: P-Asserted-Identity Supported: from-change UPDATE: From: <derived additional="" connected="" from="" number="" the=""></derived>		
Comments			
Message flows	Mg INVITE 180 Ringing 200 OK (INVITE) UPDATE 200 OK (UPDATE)	: :	ISUP → IAM ← ACM ← ANM

TP number	TP_402_001	Reference	7.5.2
TSS reference	IMS-SS/TIP-TIR/	I	
Selection criteria	PICS 7.3.1/2 AND PICS	7.3.2/2	
Test Purpose name			on restricted into the From header in
	an UPDATE request		
Test Purpose	Ensure that on receipt of	f an ANM and a Generic nu	mber additional connected number is
-	present, a 200 OK (INVI	TE) is sent and the P-Asser	ted-Identity copied from the
			in the Supported header is present.
			quest, containing the 'additional
	connected number' recei	ived in the ANM copied into	the From header as described below
	Generic number		
	Nature of Address Indica		
	"national (significant)		
			located) to Generic Number Address
		to user portion of URI sche	eme used
	"international numbe		
	Map complete Ge	eneric Number Address Sig	nals used prefixed with a "+" to user
	portion of URI sch		
	Address Presentation re		
		ed then Privacy: <i>header</i>	
	Address Signals: "+" CC	NDC SN mapped to user p	ortion of URI scheme used
	The P-Asserted-Identity	is derived from the Connect	ted number as follows
	Connected number	is derived from the confiden	de number as follows
	Nature of Address Indica	ator	
	"national (significant)		
			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		
		NDC SN mapped to user p	ortion of URI scheme used
ISUP Parameter values	IAM: Optional forward		
		ne Identity Request = reque	sted
	ANM: Generic number		
		nnected number	
			ator = presentation restricted
SIP Parameter values	INVITE: Supported: fro		
	200 OK: P-Asserted-Id	-	
	Supported: from	•	atad numbar
		ed from the additional conne lentity: <derived co<="" from="" th="" the=""><th></th></derived>	
Comments	F-Asserted-id	entity. <derived co<="" from="" th="" the=""><th>miected number></th></derived>	miected number>
Message flows	Mg	MGCF	ISUP
	INVITE	→	→ IAM
	180 Ringing	'	← ACM
	200 OK (INVITE)	+	← ANM
	200 OK (INVITE)	•	₹ \text{\ti}\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\text{\texi}\tint{\text{\texi}\til\titt{\text{\texi}\text{\texi}\text{\ti}\tint{\text{\tin}\tiint
	UPDATE	←	
	200 OK (UPDATE)	-	
	200 OR (OF DATE)	Apply post test ro	outine
		Apply post test it	Julii E

6.3.3 Communication Diversion (CDIV)

TP number	TP_403_001	Reference	7.5.4.2.1
			table 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/9	5	
Test Purpose name	Mapping of 181 hi-targeted-to-uri into ACM Redirection number		
Test Purpose	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: • If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the		
	Redirection number. • If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number		
ISUP Parameter values	ACM: Generic Notification call is diverting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry		
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM → ACM ←		ITE Call Is Being Forwarded
		Apply post test routine	

TP number	TP_403_002	Reference	7.5.4.2.1
			table 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	5	
Test Purpose name	Mapping of 181 escaped Priva	cy header into ACM Redirect	ion number restriction
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), an ACM is sent. The Redirection number restriction is set according the escaped Privacy header in the last History entry as indicated in table 6.3.3-1		
ISUP Parameter values	ACM: Redirection number restriction= PRES_restr		
SIP Parameter values	181: History-Info: <sip:any <sip:any="" pro="" pro<="" th=""><th></th><th>cause=any value>; index=1.1</th></sip:any>		cause=any value>; index=1.1
Comments			
Message flows	ISUP MGCF Mg		
	IAM →	→ IN'	VITE
	ACM ←	← 18	1 Call Is Being Forwarded
	Apply post test routine		

TP number	TP_403_003	Reference	7.5.4.2.1	
			table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	/5		
Test Purpose name	Mapping of 181 Privacy heade	er into ACM Redirection nu	umber restriction	
Test Purpose	Ensure that on receipt of 181 (
	The Redirection number restri	ction is set according the l	Privacy header as indicated in	
	table 6.3.3-1			
ISUP Parameter values	ACM: Redirection number res	striction= PRES_restr		
SIP Parameter values	181:			
	Privacy= Priv-value			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	→	INVITE	
	ACM ← 181 Call Is Being Forwarded			
	Apply post test routine			

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

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

TP number	TP_403_004	Reference	7.5.4.2.1	
			table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PIC	PICS 7.3.1/2 AND PICS 7.3.2/5		
Test Purpose name	Mapping of 181 Priva	cy header into ACM Notificat	ion subscription options	
Test Purpose	Ensure that on receip ACM is sent.	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, an ACM is sent.		
		The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.3.3-2		
ISUP Parameter values	ACM: Call Diversion	ACM: Call Diversion Information		
	Notification	Notification subscription options=SUBS_options		
SIP Parameter values	181:			
	Privacy: Priv-val u	Privacy: Priv-value		
	History-Info: <sip:any proper="" uri;cause="any" value="">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments				
Message flows	ISUP MGCF Mg IAM → INVITE			
_				
	ACM	←	← 181 Call Is Being Forwarded	
	Apply post test routine			

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

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

TP number	TP_403_005	Reference	7.5.4.2.1
			table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	/5	
Test Purpose name	Mapping of 181 escaped Priva	acy header into ACM Notific	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-targe		
	The Notification subscription of		
	according the escaped Privacy header in the last History entry as indicated in table 6.3.3-3		
ISUP Parameter values	ACM: Call Diversion Information		
	Notification subscription options=SUBS_options		
SIP Parameter values	181:		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>		
Comments			
Message flows	ISUP MGCF Mg		
	IAM →	→	INVITE
	ACM ←	←	181 Call Is Being Forwarded
	Apply post test routine		

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

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

TP number	TP_403_006	Reference	7.5.4.2.1		
			table 7.5.4.2.1.4	•	
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND I	PICS 7.3.1/2 AND PICS 7.3.2/5			
Test Purpose name	Mapping of 181 hi-t	argeted-to-uri into ACM F	Redirecting Reason		
Test Purpose	parameter of the las	Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The cause parameter of the last hi-entry is mapped into the Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.3.3-4			
ISUP Parameter values	call is div Redirection Call Diversion	ACM: Generic Notification call is diverting Redirection number Call Diversion Information Redirecting reason= Redirecting_Reason			
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP	ISUP MGCF Mg			
	IAM → INVITE				
	ACM	ACM ← 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_04	480	Deflection immediate
VA_04	503	Mobile subscriber not reachable
VA_04	487	Deflection during alerting

TP number	TP_403_007		Reference		7.5.4.2.1		
					table 7.5.4.2.1.7		
TSS reference	IMS-SS/CDIV/						
Selection criteria	PICS 7.3.5/3 AN	D PICS 7.3.1/2	2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of 181 I	ni-targeted-to-u	ıri cause paramete	r into CPG	Event indicator		
Test Purpose					PG is sent. The Event indicator		
	is set to 'Redired	ting_Reason	as indicated in tab	le 6.3.3-5			
ISUP Parameter values	CPG: Event=Re	directing_Re	ason				
	Generic N	lotification					
	call is	diverting					
	Redirection	on number					
	Call Diver	sion Information	on				
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	→		→ IN'	VITE		
	ACM	ACM ← 180 Ringing					
	CPG						
	Apply post test routine						

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

	CAUSE_value	Redirecting_Reason
VA_01	486	CFB (national use)
VA_02	408	CFNR (national use)
VA_03	302	CFU (national use)

TP number	TP 403 008	Reference	7.5.4.2.1			
			table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/	•	-			
Selection criteria	PICS 7.3.1/2 AND P	ICS 7.3.2/5				
Test Purpose name	Mapping of 181 hi-ta	argeted-to-uri into CPG Redir	ection number			
Test Purpose	 entry containing a ca If CC of the hi-ta Nature of addre country code is Redirection num If the country co 	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:				
			s set to ' international number ' '+' is Address signal of the Redirection number			
ISUP Parameter values	call is dive	CPG: Generic Notification call is diverting Redirection number Nature of address indicator				
	Address signal					
	Derived from the last History-Info entry					
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP IAM	MGCF	Mg → INVITE			
	ACM					

TP number	TP_403_009	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Redire	ection number restriction		
Test Purpose	Ensure that on receipt of 181 (
	The Redirection number restric	tion is set according the e	scaped Privacy header in the		
	last History entry as indicated in	n table 6.3.3-1			
ISUP Parameter values	CPG: Redirection number rest	triction= PRES_restr			
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	CPG ←	←	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_010	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/	·			
Selection criteria	PICS 7.3.1/2 AND PI	CS 7.3.2/5			
Test Purpose name	Mapping of 181 Priva	acy header into early CPG	Redirection number restriction		
Test Purpose		ot of 181 (Call Is Being For			
		per restriction is set accord	ding the Privacy header as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	CPG: Redirection nu	umber restriction= PRES_i	estr		
SIP Parameter values	181:				
	Privacy= Priv-val	ue			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	→	→ INVITE		
	ACM	←	← 180 Ringing		
	CPG	←	 181 Call Is Being Forwarded 		
	Apply post test routine				

TP number	TP_403_011	Reference	7.5.4.2.1			
			table 7.5.4.2.1.4			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.	2/5				
Test Purpose name	Mapping of 181 Privacy head	ler into CPG Notification su	ubscription options			
Test Purpose	CPG is sent. The Notification subscription	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a				
ISUP Parameter values	CPG: Call Diversion Informa					
SIP Parameter values	181: **Privacy: **Priv-value** History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
Comments		· · · · · · · · · · · · · · · · · · ·	,			
Message flows	ISUP	MGCF	Mg			
J	IAM → ACM ← CPG ←	→ ← ← Apply post test routi	INVITE 180 Ringing 181 Call Is Being Forwarded ne			

TP number	TP_403_012	Reference		7.5.4.2.1	
				table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PIC	S 7.3.2/5			
Test Purpose name	Mapping of 181 escape	ed Privacy header into (PG Notification	n subscription options	
Test Purpose				ining an escaped Privacy	
	header field in the last	hi-targeted-to-uri, a CP	G is sent.		
				rmation parameter is set	
	according the escaped	Privacy header in the la	ast History entr	y as indicated in table 6.3.3-3	
ISUP Parameter values	CPG: Call Diversion In	nformation			
	Notification :	subscription options=Sl	JBS_options		
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:< th=""><th>any proper URI;cause=</th><th>any value?<i>Priva</i></th><th>acy=Priv-value>; index=1.1</th></sip:<>	any proper URI;cause=	any value? <i>Priva</i>	acy= Priv-value >; index=1.1	
Comments					
Message flows	ISUP	MGCF		Mg	
	IAM	→	→ INVI	TE	
	ACM	←	← 180	Ringing	
	CPG	←	← 181	Call Is Being Forwarded	
	Apply post test routine				

TP number	TP_403_013	I	Reference	7.5.4.2.1		
				table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/			•		
Selection criteria	PICS 7.3.1/2 AN	D PICS 7.3.2/5				
Test Purpose name	Mapping of 181 I	hi-targeted-to-ui	ri into CPG Redirecting	Reason		
Test Purpose	entry containing	a cause parame		a CPG is sent. The History-Info Redirecting reason in the Call able 6.3.3-4		
ISUP Parameter values	call is Redirection Call Diver	CPG: Generic Notification call is diverting Redirection number Call Diversion Information Redirecting reason= Redirecting Reason				
SIP Parameter values	181: History-Info:	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="CAUSE_value" proper="" uri;="">; index=1.1</sip:any></sip:any>				
Comments		1 7 1	,			
Message flows	ISUP		MGCF	Mg		
	IAM	→	→	INVITE		
	ACM	←	←	180 Ringing		
	CPG					
		Apply post test routine				

TP number	TP_403_014	Reference	7.5.4.2.1			
			table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5				
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into ACM Redirection numb	er			
Test Purpose	 Ensure that on receipt of 180 (Ringing) an ACM (subscriber free) is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number: If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number. 					
	If the country code of the h SUT is located: Nature of removed from the digit stri	ni-targeted-to-uri is not equal th address indicator is set to ' inte ng and sent in the Address sig	rnational number' '+' is			
ISUP Parameter values	ACM: Backward call indicator Called party status=subscriber free Generic Notification call is diverting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry					
SIP Parameter values	180: History-Info: <sip:any pro<="" th=""><th>per URI>; index=1, per URI;cause=any>; index=1</th><th>1</th></sip:any>	per URI>; index=1, per URI;cause=any>; index=1	1			
Comments	top.uiiy pro	per era, oa a o o - a rije ; ma o x - r	• •			
Message flows	ISUP	MGCF	Mg			
	IAM → INVITE					
	ACM ← 180 Ringing					
		Apply post test routine				

TP number	TP_403_015	Reference	7.5.4.2.1			
			table 7.5.4.2.1.3			
TSS reference	IMS-SS/CDIV/	•	·			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	2/5				
Test Purpose name	Mapping of 180 escaped Priva	acy header into ACM Redirection	on number restriction			
Test Purpose		(Ringing), an ACM (subscriber				
	The Redirection number restr	iction is set according the esca	ped Privacy header in the			
	last History entry as indicated	in table 6.3.3-1				
ISUP Parameter values	ACM: Backward call indicator					
	Called party status	Called party status=subscriber free				
	Redirection number re	striction= PRES_restr				
SIP Parameter values	180:					
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<pre><sip:any proper="" uri;cause="any?Privacy=Priv-value">; index=1.1</sip:any></pre>					
Comments		•				
Message flows	ISUP MGCF Mg					
	IAM →	→ INV	ITE			
	ACM ← 180 Ringing					
	Apply post test routine					

TP number	TP_403_016	Reference	7.5.4.2.1			
			table 7.5.4.2.1.3			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	5				
Test Purpose name	Mapping of 180 Privacy heade	r into ACM Redirection nu	umber restriction			
Test Purpose	Ensure that on receipt of 180 (
	The Redirection number restrict	ction is set according the l	Privacy header as indicated in			
	table 6.3.3-1					
ISUP Parameter values	ACM: Backward call indicator					
	Called party status=	subscriber free				
	Redirection number res	triction= PRES_restr				
SIP Parameter values	180:					
	Privacy= Priv-value					
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→	INVITE			
	ACM ← 180 Ringing					
	Apply post test routine					

TP number	TP_403_017	Reference	7.5.4.2.1				
			table 7.5.4.2.1.4				
TSS reference	IMS-SS/CDIV/						
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/5					
Test Purpose name	Mapping of 180 P	rivacy header into ACM N	Notification subscription options				
Test Purpose		ceipt of 180 (Ringing) con	ntaining a Privacy header, an ACM (subscriber				
			Call Diversion Information parameter is set age body as indicated in table 6.3.3-2				
ISUP Parameter values	ACM: Backward		g,				
	Called	party status=subscriber fr	ree				
	Generic No						
	call is c	diverting					
	Call Divers	sion Information					
	Notifica	Notification subscription options= SUBS_options					
SIP Parameter values	180:						
	Privacy: Priv-	value					
	History-Info:	<sip:any proper="" uri="">; inc</sip:any>	dex=1,				
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>						
Comments			·				
Message flows	ISUP MGCF Mg						
_	IAM	_					
	ACM ← 180 Ringing						
	Apply post test routine						

TP number	TP_403_018	Reference	7.5.4.2.1		
			table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	75			
Test Purpose name	Mapping of 181 escaped Priva	cy header into ACM Notific	ation subscription options		
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, an ACM (subscriber free) is sent. The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.3.3-3				
ISUP Parameter values	ACM: Backward call indicator Called party status=subscriber free Generic Notification call is diverting Call Diversion Information Notification subscription options=SUBS options				
SIP Parameter values	180: History-Info: <sip:any pro<="" th=""><th></th><th>Privacy=Priv-value>; index=1.1</th></sip:any>		Privacy= Priv-value >; index=1.1		
Comments		, , , , , , , , , , , , , , , , , , , ,	,		
Message flows	ISUP	MGCF	Mg		
	IAM →	→	NVITE		
	ACM ←	← *	180 Ringing		
	Apply post test routine				

TP number	TP_403_019	Reference	7.5.4.2.1			
			table 7.5.4.2.1.4			
TSS reference	IMS-SS/CDIV/	<u>.</u>				
Selection criteria	PICS 7.3.1/2 AND P	ICS 7.3.2/5				
Test Purpose name	Mapping of 180 hi-ta	rgeted-to-uri into ACM Redire	cting Reason			
Test Purpose	Ensure that on recei	ot of 180 (Ringing) an ACM (s	ubscriber free) is sent. The last			
	History-Info entry coi	ntaining a cause parameter is	mapped into the Redirecting reason in			
	the Call Diversion Inf	formation parameter is set as	indicated in table 6.3.3-4			
ISUP Parameter values	ACM: Backward cal	l indicator				
	Called par	rty status=subscriber free				
	call is dive	erting				
	Redirection n	Redirection number				
	Call Diversion Information					
	Redirectin	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:					
		p:any proper URI;cause=CAL				
	<si< th=""><th colspan="5"><sip:any proper="" uri="">; index=1.1</sip:any></th></si<>	<sip:any proper="" uri="">; index=1.1</sip:any>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	IAM → INVITE				
	ACM	←	← 180 Ringing			
		Apply post test routine				

TP number	TP_403_020	Reference	7.5.4.2.1		
	11 _400_020	Reference	table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/		1000 7.0.1.2.1.2		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of 180 hi-targeted-to-u	uri into CPG Redirection nu	ımber		
Test Purpose	 Ensure that on receipt of 180 (Ringing) a CPG Alerting is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number: If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number. 				
	If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number.				
ISUP Parameter values	CPG: Event=Alerting Generic Notification call is diverting Redirection number Nature of address indicator Address signal Derived from the last History-Info entry				
SIP Parameter values	180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;="">; index=1.1</sip:any></sip:any>				
Comments	. , ,	. ,			
Message flows	ISUP	MGCF	Mg		
	IAM →	→	NVITE		
	ACM ←	← ′	181 Call Is Being Forwarded		
	CPG ←	← ′	180 Ringing		
		Apply post test routine)		

TP number	TP 403 021	Referen	ce	7.5.4.2.1		
				table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND F	PICS 7.3.2/5				
Test Purpose name	Mapping of 180 esc	aped Privacy heade	into CPG Red	irection number restriction		
Test Purpose		ipt of 180 (Ringing),				
	The Redirection nur	mber restriction is se	t according the	escaped Privacy header in the		
	last History entry as	indicated in table 6.	3.3-1			
ISUP Parameter values	CPG: Event=Alerti					
	Redirection i	number restriction= F	PRES_restr			
SIP Parameter values	180:					
	History-Info: <	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<9	<pre><sip:any proper="" uri;cause="any?Privacy=Priv-value">; index=1.1</sip:any></pre>				
Comments						
Message flows	ISUP	MG	CF	Mg		
	IAM	→	→	INVITE		
	ACM	←	+	181 Call Is Being Forwarded		
	CPG	←	←	180 Ringing		
	Apply post test routine					

TP number	TP_403_022	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of 180 Privacy header	rinto CPG Redirection nur	mber restriction		
Test Purpose	Ensure that on receipt of 180 (I				
	The Redirection number restric	tion is set according the P	rivacy header as indicated in		
	table 6.3.3-1				
ISUP Parameter values	CPG: Event=Alerting				
	Redirection number res	triction= PRES_restr			
SIP Parameter values	180:				
	Privacy= Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→	INVITE		
	ACM ←	←	181 Call Is Being Forwarded		
	CPG ←	←	180 Ringing		
	Apply post test routine				

TP number	TP 403 023	Refe	rence	7.5.4.2.1		
	11 _ 100_020			table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/			10010 7.0.1.2.111		
Selection criteria	PICS 7.3.1/2 ANI	D PICS 7 3 2/5				
Test Purpose name			CPG Notification su	pecintian antions		
Test Purpose		eceipt of 180 (Ringii	ng) containing a Priv	vacy header, a CPG Alerting is		
	sent.					
				on Information parameter is set		
	according the Pri	ivacy header in the	message body as	indicated in table 6.3.3-2		
ISUP Parameter values	CPG: Event=Ale	CPG: Event=Alerting				
	Generic N	lotification				
	call is	diverting				
		Call Diversion Information				
		Notification subscription options=SUBS options				
SIP Parameter values	180:	1 1 - 1				
		Privacy: Priv-value				
		History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	Thotory inio.	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments		Colpiany proper o	rti,oadoo—ariy varao	, IIIdox-1.1		
Message flows	ISUP	ISUP MGCF Mg				
	IAM	→	→	INVITE		
	ACM	←	←	181 Call Is Being Forwarded		
	CPG	←	←	180 Ringing		
		Apply post test routine				

TP number	TP 403 024	Reference	7.5.4.2.1			
			table 7.5.4.2.1.4			
TSS reference	IMS-SS/CDIV/		·			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	5				
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notificat	on subscription options			
Test Purpose	Ensure that on receipt of 180 (ed Privacy header field in the			
	last hi-targeted-to-uri, a CPG A					
	The Notification subscription of					
	according the escaped Privac	y header in the last History e	entry as indicated in			
	table 6.3.3-3					
ISUP Parameter values	CPG: Event=Alerting					
	Generic Notification					
	call is diverting					
	Call Diversion Information					
	Notification subscription options=SUBS_options					
SIP Parameter values	180:					
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>					
Comments						
Message flows	ISUP MGCF Mg					
	IAM → INVITE					
	ACM ← 181 Call Is Being Forwarded					
	CPG ← 180 Ringing					
	Apply post test routine					

TP number	TP 403 025	R	eference	7.5.4.2.1	
				table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	•			
Selection criteria	PICS 7.3.1/2 AN	D PICS 7.3.2/5			
Test Purpose name	Mapping of 180 h	ni-targeted-to-uri	into CPG Redirecting	Reason	
Test Purpose	Ensure that on re	eceipt of 180 (Rin	nging) a CPG Alerting	is sent. The last History-Info entry	
	containing a caus	se parameter is	mapped into the Redire	ecting reason in the Call Diversion	
	Information parai	meter is set as ir	ndicated in table 6.3.3-	4	
ISUP Parameter values	CPG: Event=Ale	erting			
	Generic N	lotification			
		diverting			
	Redirection	n number			
		sion Information			
	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri;cause="CAUSE_value">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP		MGCF	Mg	
	IAM	→	→	INVITE	
	ACM	←	←	181 Call Is Being Forwarded	
	CPG	←	←	180 Ringing	
	Apply post test routine				

TP number	TP_403_026	Reference	7.5.4.2.1			
			table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	/5				
Test Purpose name	Mapping of 200 OK hi-targete					
Test Purpose			ent. The last History-Info entry			
	containing a cause parameter					
			ode where the SUT is located: nificant) number', '+' and the			
			ent in the Address signal of the			
	Redirection number.		· ·			
			qual the country code where the			
			o ' international number ' '+' is			
		ing and sent in the Addre	ss signal of the Redirection number			
ISUP Parameter values		ANM: Redirection number				
	Nature of address indicator					
	Address signal					
	Derived from the last History-Info entry					
SIP Parameter values	200:					
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<sip:any pro<="" th=""><th colspan="4"><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></th></sip:any>	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→	INVITE			
	ACM ←	-	181 Call Is Being Forwarded			
	CPG ←	←	180 Ringing			
	ANM ←	←	200 OK INVITE			
	→ ACK					
	Apply post test routine					

TP number	TP 403 027	Reference	7.5.4.2.1			
	11 _ 100_021	113131313	table 7.5.4.2.1.3			
TSS reference	IMS-SS/CDIV/	•	,			
Selection criteria	PICS 7.3.1/2 AND PI	CS 7.3.2/5				
Test Purpose name	Mapping of 200 esca	ped Privacy header into AN	IM Redirection number restriction			
Test Purpose		ot of 200 (INVITE), an ANM				
	The Redirection num	ber restriction is set accord	ing the escaped Privacy header in the			
	last History entry as i	ndicated in table 6.3.3-1				
ISUP Parameter values	ANM: Redirection nu	ANM: Redirection number restriction= PRES_restr				
SIP Parameter values	200 OK:					
	History-Info: <si< th=""><th colspan="5">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></si<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<si< th=""><th colspan="5"><pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre></th></si<>	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	→	→ INVITE			
	ACM	←	 181 Call Is Being Forwarded 			
	CPG	←	← 180 Ringing			
	ANM	←	← 200 OK INVITE			
	→ ACK					
	Apply post test routine					

TP number	TP_403_028	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	75			
Test Purpose name	Mapping of 200 Privacy heade	r into ANM Redirection nur	nber restriction		
Test Purpose	Ensure that on receipt of 200 (
	The Redirection number restric	ction is set according the P	rivacy header as indicated in		
	table 6.3.3-1				
ISUP Parameter values	ANM: Redirection number res	striction= PRES_restr			
SIP Parameter values	200 OK:				
	Privacy= Priv-value				
	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 →	→	NVITE		
	ACM ←	←	181 Call Is Being Forwarded		
	CPG ←	←	180 Ringing		
	ANM ←		200 OK INVITE		
		→	ACK		
		Apply post test routine)		

TP number	TP_403_029	Reference	7.5.4.2.1		
			table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.	2/5			
Test Purpose name	Mapping of 200 OK hi-target	ed-to-uri into CON Redirect	tion number		
Test Purpose	a cause parameter is mappe	d into the Redirection numb			
	 If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number. 				
	• If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number				
ISUP Parameter values	CON: Redirection number				
	Nature of address indicator				
	Address signal				
	Derived from the last History-Info entry				
SIP Parameter values	200 OK:				
	History-Info: <sip:any proper="" uri="">; index=1, <sip:any index="1.1</th" proper="" uri;cause="any" value;=""></sip:any></sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	→	INVITE		
	CON (←	200 OK INVITE		
	→ ACK				
	Apply post test routine				

TP number	TP_403_030	Reference	7.5.4.2.1	
			table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	5		
Test Purpose name	Mapping of 200 escaped Priva	cy header into CON Redire	ection number restriction	
Test Purpose		Ensure that on receipt of 200 (INVITE), a CON is sent.		
			scaped Privacy header in the	
	last History entry as indicated	in table 6.3.3-1		
ISUP Parameter values	CON: Redirection number restriction= PRES_restr			
SIP Parameter values	200 OK:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→	INVITE	
	CON ←	←	200 OK INVITE	
		→	ACK	
	Apply post test routine			

TP number	TP_403_031	Reference		7.5.4.2.1
				table 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/	<u>.</u>		·
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/5		
Test Purpose name	Mapping of 200 Pri	ivacy header into CON F	Redirection nun	nber restriction
Test Purpose		Ensure that on receipt of 200 OK (INVITE), a CON is sent. The Redirection number restriction is set according the Privacy header as indicated in		
	table 6.3.3-1		· ·	-
ISUP Parameter values	CON: Redirection	number restriction= PRI	ES_restr	
SIP Parameter values	200 OK:			
	Privacy= Priv-v	ralue		
	History-Info: <	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	=	Mg
	IAM	→	→	INVITE
	CON	←	← :	200 OK INVITE
			→	ACK
	Apply post test routine			

TP number	TP_403_032	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5	
Test Purpose name	Mapping of Redirecting numbe		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter, an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The value of the second last hi-targeted-to-uri Value of Redirecting number is mapped from the Redirecting number Address Signals as indicated in table 6.3.3-6		
ISUP Parameter values	IAM: Redirecting number Nature of Address: Natures Signals <ar called="" counters="" information="" number<="" original="" redirection="" th=""><th>ny appropriate value></th><th></th></ar>	ny appropriate value>	
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; ir <sip:value <sip:="" any="" of="" proper="" redirecti="" th="" uri;ca<=""><th>ng number;cause=any>; inde</th><th>ex=1.1</th></sip:value></sip:any>	ng number;cause=any>; inde	ex=1.1
Comments		<u> </u>	•
Message flows	ISUP	MGCF	Mg
	IAM →	→ INV Apply post test routine	ITE

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

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

TP number	TP_403_033	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5	
Test Purpose name	Mapping of Redirecting numbe	r Address presentation restrict	ed into History-Info header
	Privacy value		
Test Purpose	Ensure that on receipt of an IAI		
	parameter number parameter a		
	is sent and a History-Info head		
	hi-targeted-to-uri and the PRIV		
	indicator of the Redirecting nur	nber as indicated in table 6.2.5	5-7
ISUP Parameter values	IAM: Redirecting number		
	Address presentatio	n restricted indicator: APRI_va	alue
	Redirection Information		
	Redirection counter=2		
	Original called number		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; ir</sip:any>	ndex=1,	
	<sip: any="" proper="" th="" uri;ca<=""><th>use=any?Privacy=PRIV_value</th><th>e>; index=1.1</th></sip:>	use=any?Privacy=PRIV_value	e>; index=1.1
	<pre><sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:></pre>		
Comments		<u> </u>	
Message flows	ISUP	MGCF	Mg
	IAM ->	→ INV	ITE -
		Apply post test routine	

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

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

TP number	TP_403_034	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/	•	·
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	5	
Test Purpose name	Mapping of Redirection Information	ation Redirecting indicator	
Test Purpose	Ensure that on receipt of an IA	M containing a Redirecting nu	mber, an Original called
	number parameter and a Redir	rection Information parameter,	an INVITE request is sent and
	a History-Info header is presen	nt. A Privacy header is escape	d in the second last
	hi-targeted-to-uri and the PRIV	_value is mapped from the Re	edirecting indicator of the
	Redirection Information as indi	cated 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="">; i</sip:any>	ndex=1,	
	<sip: any="" proper="" th="" uri;ca<=""><th>ause=any?Privacy=PRIV_valu</th><th>e>; index=1.1</th></sip:>	ause=any?Privacy= PRIV_valu	e >; index=1.1
	<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 6.3.3-8: 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

	Apply post test routine			
	IAM	→	→ INVITE	
Message flows	ISUP	MGCF	Mg	
Comments				
	History-Info: H	History-Info: HI-ENTRY_values		
SIP Parameter values	INVITE:			
	Redirecti	ion counter=RDCONT_value		
ISUP Parameter values	IAM: Redirection	Information		
	table 6.3.3-9			
	a the hi-targeted-to-	-uri and the index parameter of	the Redirection counter as indicated in	
	number parameter	and a Redirection Information p	arameter, an INVITE request is sent and	
Test Purpose			recting number, an Original called	
Test Purpose name		ction Information Redirection co		
Selection criteria	PICS 7.3.1/2 AND I	PICS 7.3.2/5		
TSS reference	IMS-SS/CDIV/			
			table 7.5.4.2.2.1	
TP number	TP_403_035	Reference	7.5.4.2.2	

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>
		<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_403_036	Reference	7.5.4.2.2	
			table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/	·	·	
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	2/5		
Test Purpose name	Mapping of Redirection Inform	nation Original redirection reas	son	
Test Purpose	number and a Redirection Inf redirection reason indicator C the cause parameter Cause_	Ensure that on receipt of an IAM containing a Redirection number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Original redirection reason indicator OREAS_value of the Redirection Information is mapped into the cause parameter Cause_value 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	Redirection counte	IAM: Redirection Information Redirection counter=2 Original redirection reason=OREAS 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 6.3.3-10: Mapping of Original redirection reason into cause parameter in the first Hist-entry

	OREAS_value	Cause_value First 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 403 037	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/	•	·
Selection criteria	PICS 7.3.1/2 ANI	D PICS 7.3.2/5	
Test Purpose name		ection Information Redirecting rea	
Test Purpose	Ensure that on receipt of an IAM containing a Redirection number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Redirecting reason indicator REAS_value of the Redirection Information is mapped into the cause parameter Cause_value of the last hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-11		
ISUP Parameter values	IAM: Redirection Information Redirection counter=2 Redirecting reason = REAS value		
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
Comments			
Message flows	ISUP MGCF Mg		
	IAM → INVITE		
	Apply post test routine		

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

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

TP number	TP_403_038	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PIC	CS 7.3.2/5	
Test Purpose name	Mapping of Called par	ty number Address Signals	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The Called party number is mapped into the last hi-targeted-to-uri of the History-Info header as indicated in table 6.3.3-12		
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
		iast ili-targeteu-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Called party number
VA_02	international number	Add '+' to the Address Signal digits of the Called party number

TP number	TP 403 039	Reference	7.5.4.2.2	
			table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/	•		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	/5		
Test Purpose name	Mapping of Original called nur	mber Address Signals		
Test Purpose		AM containing an Original called		
		neter, an INVITE request is sen		
		present. The value of the first hi-targeted-to-uri Value of Original called number is		
	mapped from the Original call	mapped from the Original called number Address Signals as indicated in table 6.3.3-13		
ISUP Parameter values	IAM: Original called number			
	Nature of Address: NoA_value			
	Address Signals < Digits >			
SIP Parameter values	INVITE:			
	History-Info: <sip:value called="" number="" of="" original="">; index=1,</sip:value>			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	→ INV	ITE	
	Apply post test routine			

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

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

TP number	TP_403_040	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5	
Test Purpose name	Mapping of Original called num	ber Address presentation res	stricted indicator
Test Purpose	Ensure that on receipt of an IA		
	INVITE request is sent and a F		
	the first hi-targeted-to-uri and the PRIV_value is mapped from the Address presentation		
	restricted indicator of the Original 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:		
	History-Info: <sip:any proper="" uri?privacy="<b">PRIV_value>; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ IN	VITE
	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_403_041	Reference	7.5.4.3
		table 7.5.4.3.2
IMS-SS/CDIV/		
PICS 7.3.1/2 AND PICS 7.3.2/5	5	
Second latest History-Info head	der field entry mapped into Red	directing number Nature of
address indicator		
parameter is present. The Natu	ire of address indicator of th	e Redirecting number is
mapped from the hi-targeted-to	-uri in hi-entry before last hi-ei	ntry containing a cause-param
URI parameter as indicated in t	able 6.3.3-15	
IAM: Redirecting number		
Nature of address indicator=NoA_value		
INVITE:		
History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
<pre><sip:second entry="" last="" uri;cause="any">; index=1.1,</sip:second></pre>		
<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>		
Mg	MGCF	ISUP
INVITE → IAM		
100 Trying ←		
, ,		
	PICS 7.3.1/2 AND PICS 7.3.2/5 Second latest History-Info head address indicator Ensure that on receipt of an IN's sent and a Redirecting number parameter is present. The Naturapped from the hi-targeted-to URI parameter as indicated in tale. Redirecting number Nature of address in INVITE: History-Info: <sip:any <sip:any="" address="" in="" natura="" of="" property="" secon<="" second="" th="" the=""><th>PICS 7.3.1/2 AND PICS 7.3.2/5 Second latest History-Info header field entry mapped into Recaddress indicator Ensure that on receipt of an INVITE request containing a Hist sent and a Redirecting number an Original called number and parameter is present. The Nature of address indicator of the mapped from the hi-targeted-to-uri in hi-entry before last hi-enural parameter as indicated in table 6.3.3-15 IAM: Redirecting number Nature of address indicator=NoA_value INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:second entry="" last="" uri;cause="any">; in <sip:any proper="" uri;cause="any">; index=1. Mg MGCF INVITE Mg MGCF</sip:any></sip:second></sip:any></th></sip:any>	PICS 7.3.1/2 AND PICS 7.3.2/5 Second latest History-Info header field entry mapped into Recaddress indicator Ensure that on receipt of an INVITE request containing a Hist sent and a Redirecting number an Original called number and parameter is present. The Nature of address indicator of the mapped from the hi-targeted-to-uri in hi-entry before last hi-enural parameter as indicated in table 6.3.3-15 IAM: Redirecting number Nature of address indicator=NoA_value INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:second entry="" last="" uri;cause="any">; in <sip:any proper="" uri;cause="any">; index=1. Mg MGCF INVITE Mg MGCF</sip:any></sip:second></sip:any>

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 not equal to the country code of the	international number
	country where MGCF is located	

			table 7.5.4.3.2
IMS-SS/CDIV/			•
PICS 7.3.1/2 AN	D PICS 7.3.2/5		
Second latest His signal	story-Info header fie	ld entry is mapped into	Redirecting number Address
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 Address signal 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 #ICC+NDC+SN' as indicated in table 6.3.3-16			
	•	om the second last Hist-	entry
INVITE: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Mg INVITE 100 Trying	→ ←	MGCF →	ISUP IAM
	PICS 7.3.1/2 AN Second latest His signal Ensure that on re sent and a Redir parameter is pres hi-targeted-to-uri the format +'CC-IAM: Redirectir Addre INVITE: History-Info: Mg INVITE	PICS 7.3.1/2 AND PICS 7.3.2/5 Second latest History-Info header fiesignal Ensure that on receipt of an INVITE sent and a Redirecting number an Oparameter is present. The Address hi-targeted-to-uri in hi-entry before latthe format +'CC+NDC+SN' as indicated IAM: Redirecting number Address signal derived from INVITE: History-Info: <sip:any address="" of="" proper="" th="" the="" the<="" ufficiency=""><th>PICS 7.3.1/2 AND PICS 7.3.2/5 Second latest History-Info header field entry is mapped into signal Ensure that on receipt of an INVITE request containing a His sent and a Redirecting number an Original called number ar parameter is present. The Address signal of the Redirectin hi-targeted-to-uri in hi-entry before last hi-entry containing a the format +'CC+NDC+SN' as indicated in table 6.3.3-16 IAM: Redirecting number Address signal derived from the second last Hist-INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:second cause="any" entry="" last="" uri;="">; <sip:any cause="any" proper="" uri;="">; index=1 Mg Mg MGCF INVITE</sip:any></sip:second></sip:any></th></sip:any>	PICS 7.3.1/2 AND PICS 7.3.2/5 Second latest History-Info header field entry is mapped into signal Ensure that on receipt of an INVITE request containing a His sent and a Redirecting number an Original called number ar parameter is present. The Address signal of the Redirectin hi-targeted-to-uri in hi-entry before last hi-entry containing a the format +'CC+NDC+SN' as indicated in table 6.3.3-16 IAM: Redirecting number Address signal derived from the second last Hist-INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:second cause="any" entry="" last="" uri;="">; <sip:any cause="any" proper="" uri;="">; index=1 Mg Mg MGCF INVITE</sip:any></sip:second></sip:any>

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 not equal to the country code of the country where MGCF is located	'+' is removed from the userpart digit string used in the Redirecting number Address signal

TP number	TP_403_043	Reference	7.5.4.3	
			table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5			
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 Address presentation restricted indicator of the Redirecting number is mapped from the escaped Privacy header of the second latest History-Info header field entry containing a cause parameter as indicated in table 6.3.3-17			
ISUP Parameter values	IAM: Redirecting number Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1, <sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg INVITE → 100 Trying ←	=	ISUP IAM	
	Apply post test routine			

TP number	TP 403 044	Reference	7.5.4.3		
	11 _ 100_0 1 1		table 7.5.4.3.2		
TSS reference	IMS-SS/CDIV/		table 7.0.4.0.2		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5				
Test Purpose name	Privacy header is mapped into Redirecting number Address presentation restricted				
rest i di pose name	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 Address presentation restricted indicator 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="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	→	IAM		
	100 Trying ←				
	Apply post test routine				

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

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

TP number	TP 403 045	Reference	7.5.4.3	
	11 = 100=0 10		table 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/	.	130000	
Selection criteria	PICS 7.3.1/2 AND PICS	S 7.3.2/5		
Test Purpose name	Escaped Privacy heade	er is mapped into Redirection	information Redirecting indicator	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Redirecting indicator of the Redirection information is mapped from the escaped Privacy header of the second last History-Info header field entry in the received INVITE request as indicated in table 6.3.3-18			
ISUP Parameter values		IAM: Redirection information Redirecting indicator=RDIND_value		
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1, <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg MGCF ISUP INVITE → IAM 100 Trying ← Apply post test routine			

TP number	TP 403 046	Reference	7.5.4.3	
			table 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/	l	table 1.6. ne.e	
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5			
Test Purpose name	Privacy header is mapped into Redirection information Redirecting indicator			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Redirecting indicator of the Redirection information is mapped from the Privacy header in the received INVITE request as indicated in table 6.3.3-18			
ISUP Parameter values	IAM: Redirection information Redirecting indicator=RDIND_value			
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1, <sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

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

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

TP number	TP_403_047	Reference	7.5.4.3	
			table 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5			
Test Purpose name	Privacy header 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 Redirecting reason 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="">; ir</sip:any>	•		
	<sip:any proper="" th="" uri;cau<=""><th></th><th></th></sip:any>			
	<pre><sip:any cause="Cause_value" proper="" uri;="">; index=1.1.1</sip:any></pre>			
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → JAM			
	100 Trying ←			
	Apply post test routine			

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

	Cause_value Last hi-targeted-to-uri	REAS_value
VA_01	404	Unknown/not available
VA_02	302	Unconditional
VA_03	486	User busy
VA_04	408	No reply
VA_05	480	Deflection immediate response
VA_06	487	Deflection during alerting
VA 07	503	Mobile subscriber not reachable

TP number	TP 403 048	Refe	ence	7.5.4.3
				table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5			
Test Purpose name	Hi-index is mapped into Redirection information Redirection counter			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Redirection counter of the Redirection information is mapped from the hi-index of the last History-Info header field entry in the received INVITE request as indicated in table 6.3.3-20. The number of dots in the hi-index value is equal to the value of the Redirection counter			
ISUP Parameter values	IAM: Redirection information Redirection counter=RDCONT value			
SIP Parameter values	INVITE: History-Info: ENTRY values			
Comments				
Message flows	Mg MGCF ISUP INVITE → IAM 100 Trying ←			
	Apply post test routine			

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

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

TP number	TP_403_049	Reference	7.5.4.3
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5		
Test Purpose name First History-Info header field entry is mapped into Original called number N			riginal called number Nature of
	address indicator		
Test Purpose			ng a History-Info header, an IAM is
			mber and a Redirection information
			tor of the Original called is mapped
		o header field entry in the for	mat +'CC+NDC+SN' as indicated in
	table 6.3.3-21		
ISUP Parameter values	IAM: Original called no		
	Numbering P	lan Indicator=ISDN (Telepho	3,
			lation E.164 [i.1])
		dress indicator= NoA_value	
SIP Parameter values	INVITE:		
	History-Info:		
	<pre><sip:first entry="" uri="">; index=1,</sip:first></pre>		
<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	→	→ IAM
	100 Trying	←	
		Apply post test ro	utine

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 not equal to the country code of the	international number
	country where MGCF is located	

TP number	TP_403_050	Reference	7.5.4.3	
			table 7.5.4.3.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	PICS 7.3.1/2 AND PICS 7.3.2/5		
Test Purpose name	First History-Info header field	entry is mapped into Original ca	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 Address signal of the Original called number is mapped from the first History-Info header field entry in the format +'CC+NDC+SN' as indicated in table 6.3.3-22			
ISUP Parameter values	IAM: Original called Numbering Plan Indicator=ISDN (Telephony) numbering plan (Recommendation E.164 [i.1]) Address signal derived from the first Hist-entry			
SIP Parameter values	INVITE: History-Info: <sip:first entry="" uri="">; index=1, <sip:any proper="" uri:cause="any">; index=1.1</sip:any></sip:first>			
Comments	diplanty propor or nagadada anys ; maax			
Message flows Mg INVITE 100 Trying Apply post test routin		→	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 removed from the userpart digit string used in the Original called
node is located in the same country	number Address signal
country where MGCF is located	'+' is removed from the userpart digit string used in the Original called number Address signal

TP number	TP_403_051	Reference	7.5.4.3
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/	•	·
Selection criteria	PICS 7.3.1/2 AND PICS 7.3	2/5	
Test Purpose name	First History-Info header field number Address presentation		ader is mapped into Original called
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Address presentation restricted indicator of the Original called number is mapped from the escaped Privacy header of the first History-Info header field entry as indicated in table 6.3.3-23		
ISUP Parameter values	IAM: Original called Address presenta	tion restricted indicator= AP	PRI_value
SIP Parameter values	INVITE: History-Info: <sip:first entry="" uri?privacy="PRIV_value">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:first>		
Comments			
Message flows	Mg INVITE 100 Trying	MGCF → ←	→ IAM
	Apply post test routine		

TP number	TP_403_052	Reference	7.5.4.3	
			table 7.5.4.3.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5		
Test Purpose name	Privacy header is mapped into indicator	Original called number Addres	ss presentation restricted	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Address presentation restricted indicator of the Original called number is mapped from the Privacy header of the received INVITE request as indicated in table 6.3.3-23			
ISUP Parameter values	IAM: Original called			
	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:first entry="" uri="">; ii <sip:any proper="" th="" uri;cal<=""><th></th><th></th></sip:any></sip:first>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

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

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

TP number	TP_403_053	Reference	7.5.4.3			
			table 7.5.4.3.8			
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5				
Test Purpose name	Mapping of ACM Redirection n	umber into 181 (Being forward	ed) History-Info header			
Test Purpose	Ensure that on receipt of an AC	CM a Redirection number and t	the Call diversion parameter is			
	present as an indication a call of					
	The Redirection number is map	pped into the hi-targeted-to-uri	in a History-Info header			
	containing one hi-entry in the s	ent 181 as indicated in table 6	.3.3-24			
ISUP Parameter values	ACM: Backward call indicator					
	Called party statue=	'no indication'				
	Generic notification=call	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_H	IST_URI;cause=any>; index=1				
Comments						
Message flows	Mg	MGCF	ISUP			
	NVITE → IAM					
	181 Being forwarded ←					
	Apply post test routine					

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

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

TP number	TP_403_054	Reference	7.5.4.3		
			table 7.5.4.3.8		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of ACM Redirecting reparameter	eason into 181 (Being forwarde	ed) History-Info header cause		
Test Purpose	Ensure that on receipt of an 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 cause parameter of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25				
ISUP Parameter values	ACM: Backward call indicator Called party statue='no indication' Generic notification=call is diverting Redirection number Call diversion information Redirecting reason = REAS_value				
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=Cause_value>; index=1				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	181 Being forwarded ← ← 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	302
VA_06	Deflection immediate response	302
VA_07	Mobile subscriber not reachable	503

TP number	TP_403_055	Reference	7.5.4.3	
			table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.	3.2/5		
Test Purpose name	Mapping of ACM Notification	on subscription options r	o 181 (Being forwarded) is sent	
Test Purpose	present as an indication a	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, if the Call diversion information Notification subscription options is set to presentation not allowed no 181 (Being		
ISUP Parameter values	ACM: Generic notification: Redirection number Call diversion inform Notification subs		tation not allowed	
SIP Parameter values				
Comments				
Message flows	Mg INVITE 181 Being forwarded	MGCF → ← Apply post test i	ISUP → IAM ← ACM routine	

TP number	TP_403_056	Reference	7.5.4.3		
			table 7.5.4.3.8		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of ACM Notification so Privacy header	ubscription options into 181 (Bo	eing forwarded) escaped		
Test Purpose	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Notification subscription options is mapped into the escaped Privacy header of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-26				
ISUP Parameter values	ACM: Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=NSO value				
SIP Parameter values	181:	IST_URI;cause=any?Privacy=	PRIV_value>; index=1		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	181 Being forwarded ← ← ACM				
		Apply post test routine			

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

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

TP number	TP_403_057	Reference	7.5.4.3			
	1		table 7.5.4.3.9			
TSS reference	IMS-SS/CDIV/		1.000			
Selection criteria	PICS 7.3.1/2 AND PICS	7.3.2/5				
Test Purpose name	Mapping of CPG Redire	ction number into 181 (Bei	ng forwarded) History-Info header			
Test Purpose	number and the Call divoccurred, 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 hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-24				
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Call diversion information Redirection number Nature of address indicator=NOA_value Address signal Digits					
SIP Parameter values	181: History-Info: <sip:last_hist_uri;cause=any>; index=1</sip:last_hist_uri;cause=any>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	180 Ringing	180 Ringing ← ← ACM				
	181 Being forwarded					
	Apply post test routine					

TP number	TP_403_058	Reference	7.5.4.3		
			table 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/		•		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5	5			
Test Purpose name	Mapping of CPG Redirecting re	eason into 181 (Being forwarde	ed) History-Info header cause		
	parameter	-			
Test Purpose	Ensure that on receipt of a CPC	G the Event indicator is set to '	Progress' a Redirection		
	number and the Call diversion				
	occurred, a 181 (Being forward				
	reason is mapped into the caus		geted-to-uri in a History-Info		
	header in the sent 181 as indic	ated in table 6.3.3-25			
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=call is diverting				
	Redirection number				
	Call diversion information				
	Redirecting reason =REAS_value				
SIP Parameter values	181:				
	History-Info:				
	<sip:derived acm;cause="Cause_value" from="" in="" number="" redirection="">; index=1</sip:derived>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	IAM		
	180 Ringing ←	←	ACM		
	181 Being forwarded ← ← CPG				
	Apply post test routine				

TP number	TP 403 059	Reference	7.5.4.3			
			table 7.5.4.3.9			
TSS reference	IMS-SS/CDIV/	<u> </u>	<u> </u>			
Selection criteria	PICS 7.3.1/2 AND PIC	S 7.3.2/5				
Test Purpose name	Mapping of CPG Notif	ication subscription options	no 181 (Being forwarded) is sent			
Test Purpose	number and the Call doccurred, if the Call div	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, if the Call diversion information Notification subscription options is set to presentation not allowed no 181 (Being forwarded) is sent				
ISUP Parameter values	Redirection nur Call diversion in	ation=call is diverting mber	entation not allowed			
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE 180 Ringing	→ ←	→ IAM ← ACM ← CPG			
	Apply post test routine					

TP number	TP_403_060	Reference	7.5.4.3		
			table 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	2/5			
Test Purpose name	Mapping of CPG Notification : Privacy header	subscription options into 181 (E	Being forwarded) escaped		
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Notification subscription options is mapped into the escaped Privacy header of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-26				
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=NSO_value				
SIP Parameter values	181: History-Info: <sip:any pro<="" th=""><th>pper URI?Privacy=PRIV_value</th><th>;cause=any>; index=1</th></sip:any>	pper URI?Privacy= PRIV_value	;cause=any>; index=1		
Comments		•			
Message flows	180 Ringing	MGCF +	ISUP IAM ACM CPG		
		Apply post test routine			

TP number	TP 403 061	Reference		7.5.4.3	
Transcr	11 _405_001	Reference		table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			table 7.0.4.0.0	
Selection criteria	PICS 7.3.1/2 AND PICS 7	3 2/5			
Test Purpose name			180 (Rir	nging) History-Info header	
l cott a pood name		pped into the cause param		ignig/ i notory into rioddor	
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Redirection number Address signal digits are mapped into the hi-targeted-to-uri in a History-Info header in the sent 180 (Ringing) as indicated in table 6.3.3-24 and the cause parameter value is mapped from a previous received Redirecting reason as indicated in table 6.3.3-25				
ISUP Parameter values	ACM: Call diversion infor Redirecting rea Redirection number CPG: Event indicator=All Redirection number	mation son =REAS_value er erting er ess indicator=NOA_value			
SIP Parameter values	180: History-Info:		PG :cau	se= Cause_value >; index=1	
Comments	,		,		
Message flows	Mg	MGCF		ISUP	
	INVITE	→	→	IAM	
	181 Being forwarded	←	←	ACM	
	180 Ringing	←	←	CPG	
	Apply post test routine				

TP number	TP 403 062	Reference	7.5.4.3			
			table 7.5.4.3.7			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/5					
Test Purpose name	Mapping of CPG Alerting Redirect	on Number Restriction into 180	0 (Ringing) Privacy header			
Test Purpose	Ensure that on receipt of a CPG th	e Event indicator is set to 'Aler	ting' a Redirection Number			
	Restriction parameter is present, a					
	parameter value is mapped into the	e Privacy header in the sent 18	30 as indicated in			
	table 6.3.3-27					
ISUP Parameter	ACM: Backward call indicator					
values	Called party status=no i	Called party status=no indication				
	Generic notification=call is	Generic notification=call is diverting				
	Call diversion information					
	Redirection number					
	CPG: Event indicator=Alerting					
	Redirection Number Restriction=PRES_restr					
SIP Parameter values	180:					
	Privacy= PRIV_value					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	→	IAM			
	181 Being forwarded ←	←	ACM			
	180 Ringing ←	←	CPG			
		Apply post test routine				

Table 6.3.3-27: Mapping of Redirection Number Restriction parameter into Privacy header

CAUSE	Redirection Number Restriction PRES_restr	Privacy PRIV_value
VA_01	Presentation allowed	'none' OR
		Header not present
VA_02	Presentation restricted	'History'

TP number	TP_403_063	Reference	7.5.4.3				
			table 7.5.4.3.8				
TSS reference	IMS-SS/CDIV/						
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	5					
Test Purpose name	Mapping of ANM Redirection r	number into 200 OK History-In	fo header Redirecting reason				
	is mapped into the cause para						
Test Purpose	Ensure that on receipt of an Al						
	sent. The Redirection number						
	hi-targeted-to-uri in a History-li						
	and the cause parameter value	ie is mapped from a previous	received Redirecting reason				
10115	as indicated in table 6.3.3-25						
ISUP Parameter values	ACM: Backward call indicator						
		Called party status=no indication					
	Generic notification=call is diverting						
		Call diversion information Redirecting reason = REAS_value					
	Redirection number	=REAS_value					
	ANM:	1.00.11.00.11.00.1					
	Redirection number						
	Nature of address indicator=NOA_value						
	Address signal Digi						
SIP Parameter values	200 OK:	ů ů					
	History-Info: <sip:unknow< th=""><th>n@unknown.invalid>; index=1</th><th></th></sip:unknow<>	n@unknown.invalid>; index=1					
	<sip:last_i< th=""><th>HIST_URI;cause=Cause_valu</th><th>ie>; index=1.1</th></sip:last_i<>	HIST_URI;cause=Cause_valu	ie>; index=1.1				
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE -	· →	IAM				
	181 Being forwarded ←	· ←	ACM				
	180 Ringing ←	· ←	CPG				
	200 OK INVITE ←	· ←	ANM				
	ACK -	•					
	Apply post test routine						

TP number	TP_403_064	Reference	7.5.4.3			
			table 7.5.4.3.7			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	/5				
Test Purpose name	Mapping of ANM Redirection	Number Restriction into 180 (Ri	nging) Privacy header			
Test Purpose		NM a Redirection Number Res				
		n occurred, a 180 (Ringing) is s				
		mapped into the Privacy heade	er in the sent 180 as indicated			
	in table 6.3.3-27					
ISUP Parameter values	ACM: Generic notification=ca	•				
	Call diversion informati	on				
	Redirection number					
	ANM: Event indicator=Alertin					
	Redirection Number R	estriction=PRES_restr				
SIP Parameter values	180:					
	Privacy= PRIV_value	Privacy= PRIV_value				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE		IAM			
	181 Being forwarded	- ←	ACM			
	180 Ringing	- ←	CPG			
	200 OK INVITE ← ANM					
	ACK →					
		Apply post test routine				

6.3.4 Conference call (CONF)

TP number	TP_404_001	Refer	ence		7.5.6.2	
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 7.3.1/2 AND PI	CS 7.3.2/20 AN	D PICS 7.3.9/1			
Test Purpose name	'isfocus' parameter ar	nd conference U	RI in Contact he	eader in	ACK recei	ved, a SUBSCRIBE
	is sent					
Test Purpose	Ensure that on receip					
	containing the conference					
	after the ACK was red					
	header in the ACK, th					
	P-Asserted-Identity is					
	the 200 OK INVITE th	e Privacy head	er is sent as in t	he 180 l	Ringing or	200 OK INVITE
ISUP Parameter values						
SIP Parameter values	INVITE: Contact: <conference uri="">; isfocus</conference>					
	SUBSCRIBE: Reques					
		RI equal to the				000
Comments	P-Asse	rted-Identity: <	JRI equal to the	value ii	1 the 180 c	or 200>
Comments	Mai		МОСЕ			ICLID
Message flows	Mg		MGCF		1004	ISUP
	INVITE	→		→	IAM	
	100 Trying	(,	A ON 4	
	180 Ringing	←		←	ACM	
	000 OK (INI) (ITE)			,	A B I B 4	
	200 OK (INVITE)	(←	ANM	
	ACK	→				
	SUBSCRIBE	←				
		→				
	202 Accepted	=	dy nost tost zo	utino		
		App	oly post test ro	uune		

TP number	TP_404_002	IF	Reference	7.5.6.2			
TSS reference	PSTN-SS/CONF/			7.0.0.2			
Selection criteria		PICS 7.3.2/20	AND PICS 7.3.9/1				
Test Purpose name	'isfocus' paramete SUBSCRIBE is se		ce URI in Contact hea	der in 200 OK received, a			
Test Purpose	Ensure that on receipt of a 200 OK INVITE successful final response and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent. The Request URI contains the value received in the Contact header in the 200 OK, the From header is set to the value sent in the initial INVITE request, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the initial INVITE request the Privacy header is sent as in the initial INVITE						
ISUP Parameter values							
SIP Parameter values	SUBSCRIBE: From	200: Contact: <conference uri="">; isfocus SUBSCRIBE: From: <uri equal="" in="" invite="" the="" to="" value=""> P-Asserted-Identity: < URI equal to the value in the INVITE></uri></conference>					
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM	→	→	INVITE 100 Trying			
	ACM	←	←	180 Ringing			
	ANM	←	← →	200 OK (INVITE) ACK			
			→	SUBSCRIBE 202 Accepted			
			Apply post test rout	ine			

TSS reference PSTN-SS/CONF/ Selection criteria PICS 7.3.1/2 AND PICS 7.3.2/20 AND PICS 7.3.9/1 Test Purpose name Interworking of notification of 'Conference established' at the I-MGCF Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established' SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info</th><th>TP number</th><th>TP_404_003</th><th>Reference</th><th>7.5.6.3</th></conference>	TP number	TP_404_003	Reference	7.5.6.3			
Test Purpose name Interworking of notification of 'Conference established' at the I-MGCF Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established' ISUP Parameter values CPG: Generic notification parameter is set to 'Conference established' INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-state active>true</conference>	TSS reference	PSTN-SS/CONF/					
Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established' ISUP Parameter values SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-state active>true Comments Mg MGCF ISUP INVITE → IAM 100 Trying ← 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → ANM SUBSCRIBE ← 202 Accepted → NOTIFY → CPG NOTIFY → CPG</conference>	Selection criteria	PICS 7.3.1/2 AND PICS 7.3	.2/20 AND PICS 7.3.9/1				
isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established' ISUP Parameter values INVITE: Contact: <conference <conference="" contact:="" established="" invite:="" uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-state active>true Tour onference-info Conference-state active>true Tour onference-state active>true Tour onference-info conference-info conferenc</conference>	Test Purpose name	Interworking of notification of	of 'Conference established' at the	ne I-MGCF			
request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established' ISUP Parameter values CPG: Generic notification Conference established INVITE: Contact: <conference uri="">; isfocus NOTIFY: Usbscription-State: active Event: conference Content-Type: application/conference-info+xml</conference>	Test Purpose						
present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established' CPG: Generic notification Conference established SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-state active>true //true MGCF ISUP INVITE ACM ACM SUBSCRIBE 202 Accepted NOTIFY NOTIFY NOTIFY NOTIFY P CPG ACM CPG: Generic notification parameter is set to 'true' an ISUP Conference established' Conference established Conference established INVITE: Setablished INVIT</conference>							
and the Generic notification parameter is set to 'Conference established' ISUP Parameter values							
SUP Parameter values							
Conference established SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info conference-state active>true True Mg MGCF ISUP INVITE</conference>			parameter is set to 'Conference	ce established'			
SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-state active>true< Comments Message flows Mg MgCF ISUP INVITE</conference>	ISUP Parameter values						
NOTIFY: Subscription-State: active Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-info conference-info conference-state active true<							
Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-info conference-state active true< Comments Mg MGCF ISUP INVITE → IAM 100 Trying ← 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → ANM SUBSCRIBE 202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←	SIP Parameter values						
Content-Type: application/conference-info+xml <pre> <pre> <pre></pre></pre></pre>							
xml version="1.0" conference-info conference-state active true Comments Message flows Mg MGCF ISUP INVITE → → IAM 100 Trying ← + ACM 200 OK (INVITE) ← ANM ACK → + ANM SUBSCRIBE ← 202 Accepted → NOTIFY → → CPG 200 OK (NOTIFY) ← CPG			-				
Conference-info Conference-state active>true<							
Comments Mg MGCF ISUP			.0"				
Comments Mg MGCF ISUP			rata				
Message flows Mg MGCF ISUP INVITE → → IAM 100 Trying ← ← ACM 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → ANM SUBSCRIBE ← 202 Accepted → NOTIFY → → CPG 200 OK (NOTIFY) ← CPG							
Message flows Mg MGCF ISUP INVITE → → IAM 100 Trying ← ← ACM 200 OK (INVITE) ← ← ANM ACK → → CPG SUBSCRIBE ← 202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ← CPG CPG CPG	Comments	active>tiu	6<				
INVITE → IAM 100 Trying ← 180 Ringing ← ACM 200 OK (INVITE) ← ANM ACK → ANM SUBSCRIBE ← 202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←		Ma	MGCF	ISHP			
100 Trying 180 Ringing ← ← ACM 200 OK (INVITE) ← ANM ACK → ← ANM SUBSCRIBE ← 202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←	Message news	_					
180 Ringing ← ← ACM 200 OK (INVITE) ← ANM ACK → ANM SUBSCRIBE ← 202 Accepted → CPG 200 OK (NOTIFY) ← CPG			=	/ I/ UVI			
200 OK (INVITE)		, ,	_	- ACM			
ACK SUBSCRIBE 202 Accepted NOTIFY → CPG 200 OK (NOTIFY) →		Too ranging		7.0101			
ACK SUBSCRIBE 202 Accepted NOTIFY → CPG 200 OK (NOTIFY) →		200 OK (INVITE)	←	- ANM			
SUBSCRIBE ← 202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←			-	7 (((()			
202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←		, tort	-				
202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←							
202 Accepted → NOTIFY → CPG 200 OK (NOTIFY) ←		SUBSCRIBE	←				
NOTIFY → CPG 200 OK (NOTIFY) ←							
200 OK (NOTIFY) ←							
200 OK (NOTIFY) ←		NOTIFY	→	CPG			
Apply post test routine		,	Apply post test routine				

TP number	TP_404_004	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/		1			
Selection criteria		S 7.3.2/20 AND PICS 7.3.9/	1			
Test Purpose name		tion of 'Conference establish				
Test Purpose			a session was established and the			
rest i dipose			SUBCRIBE request is sent. Ensure that			
			ne SUBSCRIBE request and a XML			
			o element of the 'conference-state'			
			et and the Generic notification parameter			
			quest contains also a Replaces header			
		ally session by sending a BY				
ISUP Parameter values	CPG: Generic notifica		2 104000			
loor rarameter values		established				
SIP Parameter values	INVITE 1: CallID: xxx	established				
on rarameter values	INVITE 1: CallID: XXX					
		onference URI>; isfocus				
		xx; to-tag=<>;from-tag=<>				
	NOTIFY: Subscription					
	Event: confe					
			nfo+yml			
	Content-Type: application/conference-info+xml xml version="1.0"</th					
	conference-info					
		nce-state				
	active>true<					
	BYE: CallID: xxx					
Comments	Note that the INVITE received in the confirmed dialogue is originated by the conference					
Comments		alogue have to terminated.	logue is originated by the conference			
Message flows	Mg	MGCF	ISUP			
	IAM	→	→ INVITE 1			
	17 (17)	-	← 100 Trying			
	ACM	←	← 180 Ringing			
	AOW	•	Too Kinging			
	ANM	←	← 200 OK (INVITE)			
	AINIVI	•	→ ACK			
			7 ACK			
			← INVITE 2			
			→ 200 OK (INVITE)			
			← ACK			
			> OLIDOODIDE			
			→ SUBSCRIBE			
			← 202 Accepted			
		_				
	CPG	←	← NOTIFY			
			→ 200 OK (NOTIFY)			
			← BYE			
			→ 200 OK (BYE)			
		Apply post test	routine			

TSS reference PSTN-SS	/CONF/				
Selection criteria PICS 7.3	1/2 AND PICS 7.3.2/2	20 AND PICS 7.3.9/1			
Test Purpose name Interwork	ing of notification of 'o	ther party added' at the I-MGC	F		
		ready indicated by receipt of a			
		receipt of a NOTIFY request a			
		ntain the ISUP address as rece			
		point' element is set to connec			
		indicator is set to 'other party	added'		
ISUP Parameter values CPG : Ge	eneric 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	→	→	CPG		
200 OK (NOTIFY)				
	,	Apply post test routine			

TP number	TP 404 006	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/		1.10.0.0			
Selection criteria		D PICS 7.3.2/20 AND PICS 7.3.9/1				
Test Purpose name		otification of 'other party added' at the	ne O-MGCF			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not contain the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to connected , an ISUP CPG message is sent the Generic notification indicator is set to 'other party added'					
ISUP Parameter values	CPG: Generic no other p	otification party added				
SIP Parameter values	Event: Conter xml</th <th>ription-State: active conference nt-Type: application/conference-info version="1.0" ence-info</th> <th></th>	ription-State: active conference nt-Type: application/conference-info version="1.0" ence-info				
Comments						
Message flows	Mg	MGCF	ISUP			
	Session is established and joined in a conference					
	CPG	←	► NOTIFY			
			→ 200 OK (NOTIFY)			
		Apply post test ro	outine			

TP number	TP_404_007	Refe	rence	7.5.6.3		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/20 AN	D PICS 7.3.9/1			
Test Purpose name	Interworking of no	tification of 'isolated	d' at the I-MGCF			
Test Purpose	at the I-MGCF. Er 'endpoint' element sub element of the Generic notificatio	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 on-hold , an ISUP CPG message is sent the Generic notification indicator is set to ' isolated '				
ISUP Parameter values	CPG: Generic no					
SIP Parameter values	Event: 6 Conten xml v<br confere use	UP address> iption-State: active conference t-Type: application/version="1.0" ence-info rs	conference-info+xml " <uri isup="" of="">"</uri>			
Comments			1100=	10115		
Message flows	Mg CASE A NOTIFY 200 OK (NOTIFY) CASE B NOTIFY 200 OK (NOTIFY) INVITE(sendonly) 200 OK (INVITE) ACK	→ ← → ← →	MGCF lished and joined in a d → bly post test routine	ISUP conference CPG CPG		

TP number	TP_404_008	Reference		7.5.6.3			
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/20 AND PICS 7.3	.9/1				
Test Purpose name	Interworking of not	tification of 'isolated' at the O-	MGCF				
Test Purpose	at the O-MGCF. E 'endpoint' element sub element of the Generic notification	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 on-hold , an ISUP CPG message is sent the Generic notification indicator is set to 'isolated'					
ISUP Parameter values	CPG: Generic no						
SIP Parameter values	isolated NOTIFY: To: <isi< th=""><th></th><th></th><th></th></isi<>						
Comments	Subscri Event: c Content xml v<br confere user	ption-State: active conference t-Type: application/conference rersion="1.0" nce-info		ml			
• • • • • • • • • • • • • • • • • • • •	Mar	MOCE		ISUP			
Message flows	Mg	MGCF					
	CASE A	Session is established and	joinea	in a conterence			
	CPG	←	← →	NOTIFY 200 OK (NOTIFY)			
	CASE B						
	CPG	←	←	NOTIFY			
			→	200 OK (NOTIFY)			
			← → ←	INVITE(sendonly) 200 OK (INVITE) ACK			
		Apply post te	st routi	ne			

TP number	TP 404 009	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/	1				
Selection criteria	PICS 7.3.1/2 AND PI	CS 7.3.2/20 AND PICS 7.3.9	/1			
Test Purpose name	Interworking of notific	cation of 'other party isolated'	at the I-MGCF			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not contain the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to on-hold , an ISUP CPG message is sent the Generic notification indicator is set to ' other party isolated '					
ISUP Parameter values	CPG: Generic notifice other party					
SIP Parameter values	Event: con Content-Ty xml vers conference users use</th <th>on-State: active Inference Inference: Inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference</th> <th></th> <th></th>	on-State: active Inference Inference: Inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference-inference				
Comments						
Message flows	Mg Se NOTIFY 200 OK (NOTIFY)	MGCF ession is established and jo → ← Apply post test	→ CPG			

TP number	TP_404_0	110	Reference	7.5.6.3		
TSS reference	PSTN-SS/	CONF/				
Selection criteria	PICS 7.3.	1/2 AND PICS 7.3.2/	20 AND PICS 7.3.9/1			
Test Purpose name	Interworki	ng of notification of 'c	other party isolated at the	e O-MGCF		
Test Purpose				pt of an adequate NOTIFY request		
				quest and the 'entity' attribute of the		
				as received in the To header and the		
				n-hold, an ISUP CPG message is		
	_		dicator is set to 'other pa	rty isolated'		
ISUP Parameter values	CPG: Ge	neric notification				
		other party isolated				
SIP Parameter values	NOTIFY:	To: <isup address=""></isup>	•			
		Subscription-State:	active			
		Event: conference				
	Content-Type: application/conference-info+xml					
	xml version="1.0"</th					
	conference-info					
	users					
	user					
		endpoint	entity=" <not isup<="" of="" th="" uri=""><th>?>"</th></not>	?>"		
		status	>on-hold<			
Comments						
Message flows		Mg	MGCF	ISUP		
	Session is established and joined in a conference					
	CPG	←	+	NOTIFY		
			→	200 OK (NOTIFY)		
			Apply post test routi	,		

TP number	TP_404_011	Reference	7.5.6.3				
TSS reference	PSTN-SS/CONF/	Neierence	1.5.0.5				
Selection criteria		S 7.3.2/20 AND PICS 7	3.0/1				
Test Purpose name		ation of 'reattached' at the		TITV va su cast			
Test Purpose		An established conference is already indicated by receipt of an adequate NOTIFY request and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity'					
			ISUP address as received in the				
			lement is set to connected , an				
			tor is set to 'reattached'	ISUF CFG			
ISUP Parameter values	CPG: Generic notifica		tor to oot to realization				
loor random random	reattached						
SIP Parameter values	NOTIFY: To: <isup< th=""><th>address></th><th></th><th></th></isup<>	address>					
		n-State: active					
	Event: conf						
	Content-Typ	oe: application/conference	e-info+xml				
	xml versi</th <th></th> <th></th> <th></th>						
	conference-	-info					
	users						
	user						
	e	endpoint entity=" <uri of<="" th=""><th>ISUP>"</th><th></th></uri>	ISUP>"				
		status>connected<					
Comments							
Message flows	Mg	MGC		JP			
		n is established joined	in a conference and isolated				
	CASE A	_					
	NOTIFY)	→ CPG				
	200 OK (NOTIFY)	←					
	CASE B						
	NOTIFY	→	→ CPG				
	200 OK (NOTIFY)	É	7 01 G				
	200 01(11011111)	•					
	INVITE(sendrecv)	→					
	200 OK (INVITE)	,					
	ACK	÷					
		Apply post t	est routine				
		, .pp., poor t					

TP number	TP_404_012	Reference		7.5.6.3			
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/20 AND PICS 7.3	9/1				
Test Purpose name	Interworking of not	ification of 'reattached' at the	D-MGCF				
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 connected , an ISUP CPG message is sent the Generic notification indicator is set to 'reattached'					
ISUP Parameter values	CPG: Generic not						
	Reattac						
SIP Parameter values	Subscrip Event: c Content xml v<br conferer user	NOTIFY: To: <isup address=""></isup>					
Comments		11005		IOLID			
Message flows	Mg	MGCF	_	ISUP			
	CASE A	sion is established joined ir	a conterence	e and isolated			
	CPG	←	← NOTI	FY			
			→ 200 0	OK (NOTIFY)			
	CASE B						
	CPG	←	← NOTI	FY			
			→ 200 0	OK (NOTIFY)			
				TE(sendrecv) DK (INVITE)			
		Apply post tes	t routine				

TP number	TD 404 040	Deference	7.5.0.0				
	TP_404_013	Reference	7.5.6.3				
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/20 AND PICS 7.3.9	/1				
Test Purpose name	Interworking of not	ification of 'other party reattache	ed' at the I-MGCF				
Test Purpose	and another party i and the 'entity' attri	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					
			ment of the 'endpoint' element is set to				
			eneric notification indicator is set to				
10115 5	other party reatta						
ISUP Parameter values	CPG: Generic not						
		arty reattached					
SIP Parameter values	NOTIFY: To: <isup address=""></isup>						
		otion-State: active					
	Event: c	conference					
	Content	-Type: application/conference-i	nfo+xml				
	xml v</th <th>ersion="1.0"</th> <th></th>	ersion="1.0"					
	conferer	nce-info					
	user	S					
	U	ıser					
		endpoint entity=" <not of<="" th="" uri=""><th>ISUP>"</th></not>	ISUP>"				
	status>connected<						
Comments							
Message flows	Mg	MGCF	ISUP				
3		tablished joined in a confere	nce and another party was isolated				
	NOTIFY	→	→ CPG				
	200 OK (NOTIFY)	É	2 010				
	200 OK (NOTIFT)	=	routing				
		Apply post test	rounie				

TP number	TP_404_014	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 7.3.1/2 AND	PICS 7.3.2/20 AND PICS 7.3.9/1				
Test Purpose name	Interworking of no	tification of 'other party reattached'	at the O-MGCF			
Test Purpose			ceipt of an adequate NOTIFY request			
			that on receipt of a NOTIFY request			
		ribute of the 'endpoint' element doe				
		header and the 'status' sub elemen				
		SUP CPG message is sent the Gene	eric notification indicator is set to			
	other party reatt					
ISUP Parameter values	CPG: Generic no					
		arty reattached				
SIP Parameter values	NOTIFY: To: <isup address=""></isup>					
		ription-State: active				
	Event: conference					
	Content-Type: application/conference-info+xml					
	xml version="1.0"</th					
	conference-info					
	users					
	user					
		endpoint entity=" <not isi<="" of="" th="" uri=""><th>JP>"</th></not>	JP>"			
_		status>connected<				
Comments						
Message flows	Mg	MGCF	ISUP			
	Session is established joined in a conference and another party was isolated					
	CPG	-	NOTIFY			
		-	200 OK (NOTIFY)			
		Apply post test ro	utine			

TP number	TP_404_015	Reference	7.5.6.3				
TSS reference	PSTN-SS/CONF/	1101010100	1.10.0.0				
Selection criteria		PICS 7.3.1/2 AND PICS 7.3.2/20 AND PICS 7.3.9/1					
Test Purpose name							
Test Purpose	An established confer- at the I-MGCF. Ensure 'endpoint' element doe sub element of the 'en	Interworking of notification of 'other party disconnected' at the I-MGCF An established conference is already indicated by receipt of an adequate NOTIFY request at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to dialled-out, an ISUP CPG message is sent the Generic notification indicator is set to 'other party disconnected'					
ISUP Parameter values	CPG: Generic notification other party	ation disconnected	•				
SIP Parameter values	NOTIFY: To: <isup <?xml="" a="" conference="" confine="" content-ty="" event:="" subscription="" th="" users="" users<="" versions=""><th>address> n-State: active erence pe: application/conference-in ion="1.0" -info</th><th>SUP>"</th></isup>	address> n-State: active erence pe: application/conference-in ion="1.0" -info	SUP>"				
Comments							
Message flows	Mg Ser NOTIFY 200 OK (NOTIFY)	MGCF ssion is established and jo → ← Apply post test	→ CPG				

TP number	TP_404_016	Reference	7.5.6.3			
TSS reference	PSTN-SS/CON	F/				
Selection criteria	PICS 7.3.1/2 AN	ND PICS 7.3.2/20 AND PICS 7.3.9/1				
Test Purpose name	Interworking of	notification of 'other party disconnec	ted' at the O-MGCF			
Test Purpose			eceipt of an adequate NOTIFY request			
			request and the 'entity' attribute of the			
			ss as received in the To header and the			
			to dialled-out, an ISUP CPG message			
		eric notification indicator is set to 'otl	ner party disconnected			
ISUP Parameter values	CPG: Generic	notification				
		party disconnected				
SIP Parameter values	NOTIFY: To: <	ISUP address>				
		cription-State: active				
		t: conference				
		ent-Type: application/conference-inf	o+xml			
		nl version="1.0"				
	confe	erence-info				
	u	sers				
	user					
		endpoint entity=" <not is<="" of="" th="" uri=""><th>SUP>"</th></not>	SUP>"			
		status>disconnected<				
		or				
		joining-method>dialled-out	<			
Comments						
Message flows	Mg	MGCF	ISUP			
		Session is established and join				
	CPG	←	← NOTIFY			
			→ 200 OK (NOTIFY)			
		Apply post test re	outine			

6.3.5 Message Waiting Indication (MWI)

Void.

6.3.6 Malicious Communication Identification (MCID)

TP number	TP 406 001	Reference	7.5.9.1		
TSS reference	IMS-SS/MCID/		-		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/3	3			
Test Purpose name	Receipt of INFO request an IDF	R is sent			
Test Purpose	Ensure that on receipt of an IN				
			eq, an ISUP IDR message is sent		
	and the MCID request indicator	s is set to MCID_req as inc	dicated in table 6.3.6-1		
ISUP Parameter values	IDR: MCID request indicators	•			
	MCID_req				
SIP Parameter values	INFO:				
	xml version="1.0"</th <th></th> <th></th>				
	mcid				
	request>				
	McidRequestIndicator> XML_McidReq<!--</b-->				
	HoldingIndicator>1 </th				
Comments					
Message flows	Mg	/IGCF	SUP		
	IAM →	→	NVITE		
		← 1	00 Trying		
	IDR ←	←	NFO		
		→ 2	200 OK INFO		
	Apply post test routine				

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

	XML_McidReq	MCID_req
VA_01	0	MCID not requested
VA_02	1	MCID requested

TP number	TP_406_002	Reference		7.5.9.1		
TSS reference	IMS-SS/MCID/					
Selection criteria	PICS 7.3.1/2 Af	ND PICS 7.3.2/3				
Test Purpose name	Receipt of IRS	Receipt of IRS an INFO request is sent				
Test Purpose				MCID response indicator set to		
		MCID_rsp, an INFO is sent and a MCID XML response element is present.				
	The McidRespo	enseIndicator is set to XML _	McidRsp as	s indicated in table 6.3.6-2		
ISUP Parameter values	IRS: MCID re	sponse indicator				
		O_rsp				
SIP Parameter values	INFO:					
	xml version</th <th>on="1.0"</th> <th></th> <th></th>	on="1.0"				
	mcid	mcid				
		response>				
	Mcid	McidResponseIndicator>XML_McidRsp </th				
Comments						
Message flows	Mg	MGCF		ISUP		
	IAM	→	→	INVITE		
	ACM	←	←	100 Trying		
	IDR		←	INFO		
		→ 200 OK INFO				
	IRS	→	→	INFO		
			←	200 OK INFO		
	Apply post tes	t routine				

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

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

TP number	TP_406_003	Reference	7.5.9.1.3	
TSS reference	IMS-SS/MCID/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/3			
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: xml version="1.0" mcid response McidResponseIndicator>1 OrigPartyIdentity derived from the Calling Party number Address signal </th			
	OrigPartyPresentationRestriction> XML_orig_restr </th			
Comments	Mai	МООТ	ICUD	
Message flows	Mg IAM ACM IDR	MGCF → ←	ISUP → INVITE ← 100 Trying ← INFO → 200 OK INFO	
	IRS → INFO ← 200 OK INFO			
	Apply post test routine			

Table 6.3.6-3: Mapping of ISUP Calling party number APRI into XML OrigPartyPresentationRestriction

	APRI_value	XML_orig_restr
VA_01	Presentation restricted	true
VA 02	Presentation allowed	false

TP number	TP_406_004	Reference		7.5.9.1.4	
TSS reference	IMS-SS/MCID/			1.10.0	
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/3				
Test Purpose name	Receipt of IRS an INFO request is sent, an Additional calling party number is interworked				
Test Purpose	Ensure that on rece	int of an IRS message co	ntaining a	'mcid' response indicator is set to	
restruipess				ML response element is present the	
	McidResponseIndic				
			ded' or 'us	ser provided, not verified' or	
	'network provided' is	s contained in the IRS a X	ML mcid (GenericNumber element is present	
	in the INFO request	and the URI is derived from	om the add	dress signals of the Additional	
	calling party numbe	calling party number.			
	Nature of address in	ndicator			
				C' the county code where the SUT	
				al calling party number and sent in	
		XML GenericNumber elen			
				signal of the Additional calling party	
		d sent in the 'mcid' XML (
				on restriction indicator value	
			enericNum	berPresentationRestriction is set to	
		indicated in table 6.3.6-4			
ISUP Parameter values	IRS: MCID response indicator MCID included				
	Generic num				
		al calling Party number presentation restriction in	dicator-AE	OPI value	
	Address		uicaioi= Ar	-Ni_value	
SIP Parameter values	INFO:	Signal			
on rarameter values	xml version="</th <th>1.0"</th> <th></th> <th></th>	1.0"			
		mcid			
	response>	response>			
	McidResponseIndicator>1 </th				
			e Generic	number Address signal </th	
	GenericNumberPresentationRestriction>XML_gen_restr </th				
Comments					
Message flows	Mg	MGCF		ISUP	
	IAM	→	→	INVITE	
	ACM	←	←	180 Ringing	
	IDR		←	INFO	
			→	200 OK INFO	
		_			
	IRS	→	→	INFO	
			←	200 OK INFO	
	Apply post test ro	utine			

Table 6.3.6-4: Mapping of ISUP Additional calling party number APRI into XML GenericNumberPresentationRestriction

	APRI_value	XML_gen_restr
VA_01	Presentation restricted	true
VA 02	Presentation allowed	false

TP number	TP_406_005	Reference	7.5.9.2.2	
TSS reference	IMS-SS/MCID/		·	
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	PICS 7.3.1/2 AND PICS 7.3.2/3		
Test Purpose name	ISUP IDR is mapped into INFO request			
Test Purpose	MCID_req, an INFO request is	Ensure that on receipt of an ISUP IDR containing a MCID request indicators indicator set to MCID_req , an INFO request is sent. A XML 'mcid' McidRequestIndicator is included set to XML_McidReq as indicated in table 6.3.6-5		
ISUP Parameter values	IDR: MCID request indicator MCID_req	S		
SIP Parameter values	INFO: xml version="1.0" mcid request McidRequestIndica: HoldingIndicator>1-	tor> XML_McidReq< / </th <th></th>		
Comments				
Message flows	INVITE 100 Trying INFO 200 OK INFO	· ←	ISUP IAM IDR	

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

	MCID_req	XML_McidReq
VA_01	MCID not requested	0
VA_02	MCID requested	1

			•			
TP number	TP_406_006	Reference	7.5.9.2.3			
TSS reference	IMS-SS/MCID/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/3					
Test Purpose name	INFO request is mapped into ISUP IRS					
Test Purpose	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to					
	MCID_rsp, an ISUP IRS is sent. The MCID response indicator is set to MCID_rsp as					
	indicated in table 6.3.6-6					
ISUP Parameter values	IRS: MCID response indicat	or				
	MCID_rsp					
SIP Parameter values	INFO:					
	xml version="1.0"</th <th></th> <th></th>					
	mcid					
	response>					
	McidResponseIndicator>XML_McidRsp </th					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	→	IAM			
	100 Trying	-				
	INFO ← IDR					
	200 OK INFO →					
	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 7.3.1/2 AND PICS 7.3.2/3		
Test Purpose name	XML OrigPartyIdentity is mapped into ISUP IRS Calling Party number		
Test Purpose	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to MCID_rsp, an ISUP IRS is sent. The XML OrigPartyIdentity is mapped into the Calling party: If the country code of the OrigPartyIdentity URI is equal to the country code where the SUT is located the Nature of address is set to 'National (significant) number', the '+' and the country code is removed from the user part of the XML OrigPartyIdentity URI and send in the Address signals of the Calling party number. If the country code of the OrigPartyIdentity URI is not equal to the country code where the SUT is located the Nature of address is set to 'International number', the '+' is removed from the user part of the XML OrigPartyIdentity URI and send in the Address signals of the Calling party number. The XML OrigPartyPresentationRestriction value XML_orig_restr is mapped into the Address presentation restriction indicator APRI_value of the Calling party number as indicated in table 6.3.6-7		
ISUP Parameter values	IRS: MCID response 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 McidResponseIndicator>1 OrigPartyIdentity any valid URI OrigPartyPresentationRestriction XML_orig_restr </th		
Comments			
Message flows	INVITE 100 Trying INFO 200 OK INFO	MGCF	ISUP → IAM ← IDR → IRS
	200 OK INFO Apply post test routine		

Table 6.3.6-7: Mapping of XML OrigPartyPresentationRestriction into ISUP Calling party number APRI

	XML_orig_restr	APRI_value
VA_01	true	Presentation restricted
VA_02	false	Presentation allowed

TP number	TP_406_008	Reference	7.5.9.2.3	
TSS reference	IMS-SS/MCID/	•		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/3			
Test Purpose name	XML GenericNumber is mapped into ISUP IRS Additional calling Party number			
Test Purpose	Ensure that on receipt of an MCID_rsp, an ISUP IRS is	INFO request the XML 'mcid' I	McidResponseIndicator is set to	
		mapped into the Additional ca	lling party:	
			I to the country code where the	
			al (significant) number', the '+'	
			the XML GenericNumber URI	
		s signals of the Additional callir		
			qual to the country code where	
		Nature of address is set to 'Inte		
	removed from the user	part of the XML GenericNumber	er URI and send in the Address	
	signals of the Additiona			
			IL_gen_restr is mapped into the	
		tion indicator APRI_value of th	ne Additional calling party	
	number as indicated in table			
ISUP Parameter values	IRS: MCID response indicator			
	MCID included			
	Generic number	_		
	Additional calling			
		tion restriction indicator=APRI	_value	
SIP Parameter values	Address signal			
SIP Parameter values	INFO: xml version="1.0"</th <th></th> <th></th>			
	mcid			
	response> McidResponseIndicator>1 </th			
		derived from the Generic nu	mber Address signal </th	
		resentationRestriction> XML_g		
Comments	30		, <u></u>	
Message flows	Mg	MGCF	ISUP	
	INVITE	→ -	IAM	
	100 Trying	←		
	INFO	← ←	- IDR	
	200 OK INFO	→		
	INFO)	• IRS	
	200 OK INFO	-	11.0	
	Apply post test routine			

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

	XML_gen_restr	APRI_value
VA_01	true	Presentation restricted
VA 02	false	Presentation allowed

6.3.7 Closed User Group (CUG)

TP number	TP_407_001	Reference	7.5.10.1	
			table 7.5.10.1.1,	
			table 7.5.10.1.2	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	23		
Test Purpose name	Mapping of the SIP XML CUG parameter	Element to the ISUP closed u	sergroup interlock code	
Test Purpose	Ensure that on receipt of an IN			
	application/vnd.etsi.cug+xml ar			
	'networkIndicator' is mapped in			
	Identity indicator and the XML		apped into the ISUP Closed	
	user group interlock code Binar	ry code indicator		
ISUP Parameter values	IAM:			
	Optional forward call inc	dicator		
	Closed user group c			
	Closed user group interlock code Network Identity mapped from XML networkIndicator Binary code mapped from XML cugInterlockBinaryCode			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.	etsi.cug+xml		
	xml version="1.0"</th <th></th> <th></th>			
	cug			
		cator=any proper value		
		BinaryCode=any proper val	ue	
	cugCommuni	icationIndicator		
Comments				
Message flows	Mg MGCF ISUP			
	INVITE →	→	IAM	
	100 Trying ←			
	Apply post test routine			

TP number	TP_407_002	Reference	7.5.10.1		
	11 _ 101 _ 002	13.5.5.5.5	table 7.5.10.1.1.		
			table 7.5.10.1.3		
TSS reference	IMS-SS/CUG/	1			
Selection criteria	PICS 7.3.1/2 AND PIC	CS 7.3.2/23			
Test Purpose name		ML CUG Element to the ISUP of a Forward Call Indicator Param	closed user group call indicator		
Test Purpose	Ensure that on receipt application/vnd.etsi.cu 'cugCommunicationInc	of an INVITE request containing g+xml and the 'cug' XML body,	ng the Content-Type an IAM is sent. The XML POptional forward call indicator		
ISUP Parameter values	IAM: Optional forwar Closed use	rd call indicator r group call indicator= CUG_inc oup interlock code entity			
SIP Parameter values	INVITE: Content-Type: applica xml version= cug netw</td <td>tion/vnd.etsi.cug+xml</td> <td>_COM_ind</td>	tion/vnd.etsi.cug+xml	_COM_ind		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	INVITE → IAM			
	100 Trying ←				
		Apply post test ro	utine		

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/	IMS-SS/CUG/		
Selection criteria	PICS 7.3.1/2 AND PIC	CS 7.3.2/23		
Test Purpose name	Communication is rele outgoing access	eased if the PSTN/ISDN netwo	rk does not support CUG, CUG without	
Test Purpose	application/vnd.etsi.cu	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	xml version=<br cug netv cug	Content-Type: application/vnd.etsi.cug+xml xml version="1.0"</th		
Comments				
Message flows	Mg INVITE 403 Forbidden ACK	MGCF	ISUP	

TP number	TP 407 004	Reference	7.5.10.1	
			table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/		table Heller	
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	23		
Test Purpose name	Communication is treated as a	n ordinary call if the PSTN/ISD	N network does not support	
_	CUG, CUG with outgoing acce	ss		
Test Purpose	Ensure that on receipt of an IN	VITE request containing the C	ontent-Type	
	application/vnd.etsi.cug+xml a			
	'10', the communication is trea	ted as an ordinary call if the PS	STN/ISDN network does not	
	support CUG. A Closed user g	roup interlock code is not pres	ent in the sent IAM	
ISUP Parameter values				
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator			
	cugInterlock	BinaryCode		
	cugCommun	icationIndicator='10'		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP_407_005	Reference	7.5.10.1	
			table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	23		
Test Purpose name	Communication is treated as an CUG, Non-CUG call	n ordinary call if the PSTN/ISD	N network does not support	
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '00', the communication is treated as an ordinary call if the PSTN/ISDN network does not support CUG. A Closed user group interlock code is not present in the sent IAM			
ISUP Parameter values				
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator			
	cugInterlockBinaryCode			
	cugCommuni	cationIndicator='00'		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
		Apply post test routine		

TP number	TP_407_006	Reference	7.5.10.2		
			table 7.5.10.2.2		
TSS reference	IMS-SS/CUG/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/23				
Test Purpose name	Mapping of the ISUP closed usergroup interloccode to SIP XML CUG element				
Test Purpose	Ensure that on receipt	of an IAM and a Closed user	group interlock code parameter is		
_	present, an INVITE rec	uest is sent. The Network Ide	ntity indicator is mapped into the XML		
	networkIndicator eleme	ent, the Binary code is mapped	d into the XML cugInterlockBinaryCode		
ISUP Parameter values	IAM:	, , , , , , , , , , , , , , , , , , , ,	· ·		
	Optional forward	d call indicator			
		group call indicator			
		Closed user group interlock code			
		Network Identity=any proper value			
		Binary code=any proper value			
SIP Parameter values	INVITE:				
on randingtor rando	Content-Type: application/vnd.etsi.cug+xml				
	xml version="1.0"</th				
		cug networkIndicator= mapped from Network Identity			
	cugInterlockBinaryCode= mapped from Binary code cugCommunicationIndicator				
Comments	cuge	Offinialicationinalcator			
	NA	MOCE	ICUD		
Message flows	Mg MGCF ISUP				
	IAM	IAM → INVITE			
	← 100 Trying				
		Apply post test ro	utine		

TP number	TP_407_007	Reference	7.5.10.2	
			table 7.5.10.2.3	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	23		
Test Purpose name	Mapping of the ISUP closed us	Mapping of the ISUP closed usergroup interloccode to SIP XML CUG element		
Test Purpose	Ensure that on receipt of an IA			
	CUG_ind, an INVITE request i			
	from the ISUP Closed user gro	up call indicator set to CUG_ir	d as indicated in table 6.3.7-2	
ISUP Parameter values	IAM:			
	Optional forward call inc	dicator		
		all indicator=CUG_ind		
		Closed user group interlock code		
	Network Identity	Network Identity		
	Binary code			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator			
	cugInterlockBinaryCode			
	cugCommun	icationIndicator=CUG_COM_i	nd	
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	→	INVITE	
		←	100 Trying	
		Apply post test routine		

Table 6.3.7-2: Mapping of ISUP Optional forward call indicator Closed user group call indicator into XML cugCommunicationIndicator

	CUG_ind	CUG_COM_ind
VA_01	non-CUG call	00
VA_02	spare	01
VA_03	closed user group call, outgoing access allowed	10
VA 04	closed user group call, outgoing access not allowed	11

TP number	TP_407_008	Reference	7.5.10.2,			
	11 _ 101 _ 000	100000000	1.5.2.4.2/Q.735.1			
TSS reference	IMS-SS/CUG/					
Selection criteria	PICS 7.3.1/2 AND PI	CS 7.3.2/23 AND PICS 7.3.10	/1			
Test Purpose name	Communication is rel outgoing access	eased if the IMS network does	not support CUG, CUG without			
Test Purpose	call indicator is set to network does not sup	Ensure that on receipt of an IAM and the Optional forward call indicator Closed user group call indicator is set to closed user group call, outgoing access not allowed and the IMS network does not support the CUG supplementary service, a REL is sent and the Cause value is set to #29 Facility rejected the diagnostics indicating CUG without access				
ISUP Parameter values	Closed user g Closed user g Network lo Binary coo REL: Cause indicate	IAM: Optional forward call indicator Closed user group call indicator=C UG call, outgoing access not allowed Closed user group interlock code Network Identity Binary code REL: Cause indicator Cause value=29				
SIP Parameter values	J					
Comments						
Message flows	Mg	Mg MGCF ISUP				
	IAM REL RLC	→ ← → Apply post test r	outine			

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 7.3.1/2 AND PICS 7.	3.2/23 AND PICS 7.3.10/1			
Test Purpose name	Communication is treated	as an ordinary call if the IMS	network does not support CUG,		
	CUG with outgoing access	•			
Test Purpose			ard call indicator Closed user group		
	call indicator is set to close	ed user group call, outgoing	access allowed and the IMS 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	Mg	MGCF	ISUP		
	IAM -	•	→ INVITE		
			← 100 Trying		
		Apply post test rout	ine		

6.3.8 CCBS/CCNR

TP number	TP_408_001	Reference	7.5.11.1,	
i F ilullibei	17_400_001	Reference	,	
			table 7.5.11.1.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	Mapping of CCNR possible ind	ication in the ACM		
Test Purpose	Ensure that on receipt of an ACM and a CCNR possible indicator is present set to 'CCNR possible' a 180 Ringing is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'NR'			
ISUP Parameter values	IAM: Called party number Number digits ACM: Called party status Subscriber free CCNR possible indicato CCNR possible	г		
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>rty number digits>;purpose=ca</th><th>all-completion;m=NR</th></sip:called>	rty number digits>;purpose=ca	all-completion;m=NR	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	→	IAM	
	180 Ringing ←	+	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 7.3.1/2 AND PICS 7.3.2/2	24			
Test Purpose name	Mapping of CCNR possible ind	ication in the CPG			
Test Purpose	Ensure that on receipt of an CF				
	indicator is present set to 'CCN				
	present, the URI is derived from	n the Called party number, the	purpose parameter is set to		
	'call-completion', the m parame	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>;purpose=ca</th><th>all-completion;m=NR</th></sip:called>	arty number digits>;purpose=ca	all-completion;m=NR		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	→	IAM		
	← ACM(no indication)				
	180 Ringing ← ← CPG(Alerting)				
	Apply post test routine				

TP_408_003	Reference	7.5.11.1,	
		table 7.5.11.1.1	
IMS-SS/CC/	•		
PICS 7.3.1/2 AND PICS 7.3.2/	24		
Mapping of CCBS possible ind	ication in the REL		
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			
IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible			
486: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion;m=BS</sip:called>			
		•	
486 Busy here	+	ISUP IAM REL RLC	
	IMS-SS/CC/ PICS 7.3.1/2 AND PICS 7.3.2/ Mapping of CCBS possible ind Ensure that on receipt of an RI the Diagnostic field is set to 'Co present, the URI is derived fror 'call-completion', the m parame IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible 486: Call-Info: <sip:called 486="" busy="" here<="" invite="" mg="" part="" th=""><th>IMS-SS/CC/ PICS 7.3.1/2 AND PICS 7.3.2/24 Mapping of CCBS possible indication in the REL Ensure that on receipt of an REL message Cause #17 and a the Diagnostic field is set to 'CCBS possible' a 486 Busy here present, the URI is derived from the Called party number, the 'call-completion', the m parameter is set to 'BS' IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible 486: Call-Info: <sip:called digits="" number="" party="">;purpose=called Busy here Mg MGCF INVITE + +</sip:called></th></sip:called>	IMS-SS/CC/ PICS 7.3.1/2 AND PICS 7.3.2/24 Mapping of CCBS possible indication in the REL Ensure that on receipt of an REL message Cause #17 and a the Diagnostic field is set to 'CCBS possible' a 486 Busy here present, the URI is derived from the Called party number, the 'call-completion', the m parameter is set to 'BS' IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible 486: Call-Info: <sip:called digits="" number="" party="">;purpose=called Busy here Mg MGCF INVITE + +</sip:called>	

TP number	TP 408 C	004	Reference		7.5.11.1	l,
					table 7.	5.11.1.1
TSS reference	IMS-SS/C	C/				
Selection criteria	PICS 7.3.	1/2 AND PICS 7.3	.2/24			
Test Purpose name			the INVITE request l			
Test Purpose			INVITE request and			
	is sent and	d the CCSS call in	dicator parameter is	present and	d the value	e is set to 'CCSS call'
ISUP Parameter values	IAM: CC	SS call indicator				
		CCSS call				
SIP Parameter values	INVITE:	<request uri="">;n</request>	n=NR or ;m=BS			
Comments						
Message flows		Mg	MGCF			ISUP
	INVITE		→	→	IAM	
	100 Trying	g	←			
			Apply post tes	st routine		

TP number	TP_408_005	Reference	7.5.11.1,
			table 7.5.11.1.1
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	24	
Test Purpose name	Mapping of Call-Info header in	the INVITE into CCSS parame	ter in the IAM
Test Purpose		IVITE request and a Call-Info h	
		etion' and the m parameter set	
	and the CCSS call indicator pa	arameter is present and the valu	ue is set to 'CCSS call'
ISUP Parameter values	IAM: CCSS call indicator		
	CCSS call		
SIP Parameter values	INVITE: <request uri=""></request>		
	Call-Info: <sip:calle< th=""><th>d party number digits>;purpose</th><th>=call-completion; m=BS or</th></sip:calle<>	d party number digits>;purpose	=call-completion; m=BS or
	NR	-	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	→	IAM
	100 Trying ←	-	
	- 0	Apply post test routine	

TP number	TP_408_006	Reference	7.5.11.1,			
			table 7.5.11.1.2			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24				
Test Purpose name	Invocation of CCBS in the I-MG	iCF				
Test Purpose	Ensure that on receipt of a SUE					
	parameter set to 'BS' and Even					
	UDT or XUDT is sent containin					
	REQUEST invoke CalledPartyl					
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to			
	'TRUE'					
TCAP Parameter values	TC Begin					
	CCBS REQUEST invoke					
	CalledPartyNumber derived from the To header					
	CallingPartyNumber derived from the P-Asserted-Identity header					
	RetainSupported					
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>					
	Event: call-completion					
Comments						
Message flows	Mg	MGCF	SCCP			
	SUBSCRIBE → (X)UDT (TC-Begin)					
	202 Accepted					
	Apply post test routine					

TP number	TP_408_007	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24			
Test Purpose name	Invocation of CCBS in the I-MG	SCF			
Test Purpose	Ensure that on receipt of a SUE	SSCRIBE and the Event heade	er field contains the value		
	'call-completion' and a Call-Info	header with purpose paramet	er ser to call-completion and		
	m parameter set to 'BS', a SCC	CP UDT or XUDT is sent contain	ning a TC-Begin REQUEST		
	invoke Data field. The TC-Begi	n REQUEST invoke CalledPar	tyNumber is derived from the		
	To header, the CallingPartyNur	mber is derived from the From	header and the		
	RetainSupported is set to 'TRU	E'			
TCAP Parameter values	TC Begin				
	CCBS REQUEST invoke				
	CalledPartyNumber der	ived from the To header			
	CallingPartyNumber der	rived from the P-Asserted-Ide	ntity header		
	RetainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <requesr uri=""></requesr>				
	Event: call-completion				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
Comments					
Message flows	Mg	MGCF	SCCP		
_	SUBSCRIBE → (X)UDT (TC-Begin)				
	202 Accepted				
	Apply post test routine				

TP number	TP 408 008	Reference	7.5.11.1,			
	00_000		table 7.5.11.1.2			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24				
Test Purpose name	Invocation of CCNR in the I-MC	GCF				
Test Purpose	parameter set to 'NR' and Ever UDT or XUDT is sent containin REQUEST invoke CalledPartyl	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 CCBS REQUEST invoke CalledPartyNumber derived from the To header CallingPartyNumber derived from the P-Asserted-Identity header RetainSupported TRUE					
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>					
Comments	Event: call-completion					
	Ma	MGCF	SCCP			
Message flows	Mg SUBSCRIBE 202 Accepted ←	WGCF →	(X)UDT (TC-Begin)			
	Apply post test routine					

TP number	TP_408_009	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	Invocation of CCNR in the I-MC	GCF .		
Test Purpose	Ensure that on receipt of a SUE			
	'call-completion' and a Call-Info	header with purpose paramet	ter ser to call-completion and	
	m parameter set to 'NR', a SCC	CP UDT or XUDT is sent conta	ining a TC-Begin REQUEST	
	invoke Data field. The TC-Begi	n REQUEST invoke CalledPar	rtyNumber is derived from the	
	To header, the CallingPartyNur	mber is derived from the From	header and the	
	RetainSupported is set to 'TRU	E'		
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	CalledPartyNumber derived from the To header			
	CallingPartyNumber der	rived from the P-Asserted-Ide	ntity header	
	RetainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri=""></request>			
	Event: call-comp	letion		
	Call-Info: <sip:ca< th=""><th>alling party number digits>;pur</th><th>pose=call-completion; m=BS</th></sip:ca<>	alling party number digits>;pur	pose=call-completion; m=BS	
Comments				
Message flows	Mg	MGCF	SCCP	
	SUBSCRIBE →	→	(X)UDT (TC-Begin)	
	202 Accepted		, , , , , , , , , , , , , , , , , , , ,	
	·	Apply post test routine		

TP number	TP 408 010	Reference	7.5.11.1,	
Transo.	11 _400_010	1101010100	table 7.5.11.1.2	
TCC reference	IMC CC/CC/		table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "closed" is interw	orked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m parame	eter is present in the Request	
	line is set to 'BS' the Event hea	der field contains the value 'pro	esence', and a PIDF XML	
	MIME body is present the present			
	containing a TC-Cont CCBS SI			
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS .		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>closed</basic>			
Comments	Note the XML semantic is sche	matically the alias is not considerate	dered	
Message flows	Mg	MGCF	SCCP	
	Invoke a successful CCBS request and remote user is now free			
	PUBLISH →	•	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
1	Apply post test routine			

TP number	TP_408_011	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "closed" is interw	orked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value	
	'presence' and a Call-Info head			
	parameter set to 'BS' and a PID			
	'closed', a SCCP UDT or XUDT	is sent containing a TC-Cont	CCBS SUSPEND Data field	
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	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	•		
Message flows	Mg	MGCF	SCCP	
	Invoke a successful CCBS request and remote user is now free			
	PUBLISH → (X)UDT (TC-Cont)			
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP 408 012	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/	l		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "open" is interwo	rked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m param	eter is present in the Request	
	line is set to 'BS' the Event hea	der field contains the value 'pr	esence' and a PIDF XML	
	MIME body is present the present	ence status set to 'open', a SC	CP UDT or XUDT is sent	
	containing a TC-Cont CCBS RI	ESUME Data field		
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open-</basic>			
Comments	Note the XML semantic is sche	matically the alias is not consi	dered	
Message flows	Mg	MGCF	SCCP	
	Successful CCBS request and remote user is free originating user suspended			
	PUBLISH →	→	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
	Apply post test routine			

TP number	TP_408_013	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "open" is interwo	rked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and the Event h	eader field contains the value	
	'presence', a Call-Info header v			
	parameter set to 'BS' and a PID			
	'open', a SCCP UDT or XUDT i	s sent containing a TC-Cont C	CBS RESUME Data field	
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche			
Message flows	Mg	MGCF	SCCP	
	Successful CCBS request and remote user is free originating user suspended			
	PUBLISH →	→	(X)UDT (TC-Cont)	
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP 408 014	Reference	7.5.11.1,	
Ti Tidilibei	11 _400_014	TKCTCTCTTCC	table 7.5.11.1.2	
T00 (10.40.00/00/		table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "closed" is interv	orked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE			
	line is set to 'NR' the Event hea	der field contains the value 'pr	esence' and a PIDF XML	
	MIME body is present the prese	ence status set to 'closed', a S	CCP UDT or XUDT is sent	
	containing a TC-Cont CCBS SI			
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=l</request>	VR		
	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 sche	matically the alias is not considerate	dered	
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			
1	Apply post test routille			

TP number	TP_408_015	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "closed" is interw	orked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event heade	er field contains the value	
	'presence', a Call-Info header w			
	parameter set to 'NR' and a PII			
	'closed', a SCCP UDT or XUDT	is sent containing a TC-Cont	CCBS SUSPEND Data field	
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	d		
Comments	Note the XML semantic is sche	matically the alias is not considerated		
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 408 016	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24			
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "open" is interwo	orked into CCBS RESUME		
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m param	eter is present in the Request		
	line is set to 'NR' the Event hea	der field contains the value 'pr	esence' and a PIDF XML		
	MIME body is present the present	ence status set to 'open', a SC	CP UDT or XUDT is sent		
	containing a TC-Cont CCBS RI	ESUME Data field			
TCAP Parameter values	TC-Cont: CCBS RESUME				
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	NR			
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>open-</basic>				
Comments	Note the XML semantic is sche	matically the alias is not consi	dered		
Message flows	Mg	MGCF	SCCP		
	Successful CCNR 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 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "open" is interwo	orked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and Event head	der field contains the value	
	'presence' a Call-Info header w			
	parameter set to 'NR' and a PII			
	'open', a SCCP UDT or XUDT i	s sent containing a TC-Cont C	CBS RESUME Data field	
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	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>open-</basic>			
Comments	Note the XML semantic is sche	•		
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 408 018	Reference	7.5.11.1,	
Ti Hamber	11 _400_010	Kererenee	table 7.5.11.1.2	
T00 (IMO 00/00/		table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	SUBSCRIBE with m=BS and E			
Test Purpose	Ensure that on receipt of a SUI	BSCRIBE request and a m par	ameter is present in the	
	Request line is set to 'BS' and	Event header field contains the	value 'call-completion' and a	
	Call-Info header with purpose p	parameter ser to call-completion	n and m parameter set to 'BS'	
	and a Expires header set to '0',			
	CANCEL Data field			
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 7.3.1/2 AND PICS 7.3.2/2	24			
Test Purpose name	SUBSCRIBE with m=NR and E	xpires header set to '0' is inter	worked into CCBS CANCEL		
Test Purpose	Ensure that on receipt of a SUI	BSCRIBE request and a m par	ameter is present in the		
	Request line is set to 'NR' and				
	Call-Info header with purpose p				
	and a Expires header set to '0',	a SCCP UDT or XUDT is sen	t containing a TC-End CCBS		
	CANCEL Data field		-		
TCAP Parameter values	TC-End: CCBS CANCEL				
SIP Parameter values	SUBSCRIBE: <request uri="">; m=NR</request>				
	Event:call-completion				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>				
	Expires: 0		· · · · · · · · · · · · · · · · · · ·		
Comments					
Message flows	Mg	MGCF	SCCP		
_	A CCNR is successfully invoked				
	SUBSCRIBE → (X)UDT (TC-End)				
	202 Accepted		,		
	Apply post test routine				

TP number	TP 408 020	Reference	7.5.11.1,		
Ti mamber	11 _400_020	11010101100	table 7.5.11.1.3		
TCC reference	IMC CC/CC/		table 7.5.11.1.5		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	_:			
Test Purpose name	TC-Cont CCBS REQUEST (re	turn result) is interworked into	NOTIFY cc-service-retention		
	present				
Test Purpose	Ensure that on receipt of a UD	T or XUDT containing a TC-Co	nt CCBS REQUEST (return		
-	result) Data field and the Retai				
	sent and the cc-state body is s				
TCAP Parameter values	TC-Cont: CCBS REQUEST (r		,		
Total Farameter Values	RetainSupported	,			
CID Desembles volues					
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 ->	→	(X)UDT (TC-Begin)		
	202 Accepted		() () ()		
	Lot nooplod				
	NOTIFY ←	←	(V)LIDT (TC Cont)		
			(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/	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	/24			
Test Purpose name	TC-Cont CCBS REQUEST (re	turn result) is interworked into	NOTIFY cc-service-retention		
	not present				
Test Purpose	Ensure that on receipt of a UD	T or XUDT containing a TC-Co	ont CCBS REQUEST (return		
		inSupported element is set to I			
	sent and the cc-state body is s	set to 'queued' a cc-service-rete	ention body is not present		
TCAP Parameter values	TC-Cont: CCBS REQUEST (return result)			
	RetainSupporte	d=FALSE			
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBSCRIBE -	→	(X)UDT (TC-Begin)		
	202 Accepted	•			
	·				
	NOTIFY	- ←	(X)UDT (TC-Cont)		
	200 OK (NOTIFY)	•	, ,		
	Apply post test routine				

TP number	TP_408_022	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	24		
Test Purpose name	CCBS Return error TC-End Shresponse to SUBCRIBE	ortTermDenial received, 480	Temporarily Unavailable	
Test Purpose	Ensure that on receipt of a 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 Event: call-completion</request>			
Comments				
Message flows	Mg	MGCF	SCCP	
	SUBCRIBE	→	→ (X)UDT (TC-Begin)	
	480 Temporarily Unavailable	←	← (X)UDT (TC-End)	
		Apply post test routine		

TP number	TP_408_023	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	CCBS Return error TC-End Lo	ngTermDenial received, 403 F	orbidden unavailable	
	response to SUBCRIBE			
Test Purpose	Ensure that on receipt of a UD			
	error) component in the Data fi		403 Forbidden final response	
	to the SUBCRIBE CCBS reque	est is sent		
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	TC-End CCBS REQUEST (Return error)			
	LongTermDe	nial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>			
	Event: call-completion			
Comments				
Message flows	Mg	MGCF	SCCP	
	SUBSCRIBE	→	→ (X)UDT (TC-Begin)	
	403 Forbidden	←	← (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 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	CCNR Return error TC-End Shresponse to SUBCRIBE	nortTermDenial received, 480	Temporarily Unavailable	
Test Purpose	error) component in the Data fi	Ensure that on receipt of a UDT or XUDT containing a TC-End CCNR REQUEST (Return error) component in the Data field set to 'ShortTermDenial', a 480 Temporarily Unavailable final response to the SUBCRIBE CCNR request is sent		
TCAP Parameter values	TC Begin CCNR REQUEST invoke TC-End CCNR REQUEST (Re ShortTermDe	•		
SIP Parameter values	SUBSCRIBE: <request uri="">, Event: call-comp</request>			
Comments	·			
Message flows	Mg	MGCF	SCCP	
	SUBCRIBE	→	→ (X)UDT (TC-Begin)	
	480 Temporarily Unavailable	←	← (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 7.3.1/2 AND PIC	CS 7.3.2/24			
Test Purpose name	CCNR Return error To response to SUBCRIE		ived, 403 Forbidden unavailable		
Test Purpose	error) component in th	Ensure that on receipt of a UDT or XUDT containing a TC-End CCNR REQUEST (Return error) component in the Data field set to 'LongTermDenial', a 403 Forbidden final response to the SUBCRIBE CCNR request is sent			
TCAP Parameter values	TC Begin CCNR REQUEST invoke TC-End CCNR REQUEST (Return error) LongTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>				
Comments		•			
Message flows	Mg SUBSCRIBE 403 Forbidden	M(→ ← Apply post test	GCF SCCP → (X)UDT (TC-Begin) ← (X)UDT (TC-End) 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 7.3.1/2 AND PICS 7.3.2/2	24	
Test Purpose name	TC-End CCBS CANCEL receive	red after CCBS was successfu	lly invoked
Test Purpose	Ensure that on receipt of an UE		
	CCBS was successfully invoke		
	to 'BS' in the Request line and		et to 'terminated ' and the
	subexp-params reason set to '	noresource'	
TCAP Parameter values	TC-End		
	CCBS CANCEL		
SIP Parameter values	NOTIFY: <request uri=""></request>		
	Event:call-completion		
	Subscription-State: terminated; reason=noresource		
Comments			
Message flows	Mg	MGCF	SCCP
	CCBS request successfully invoked		
	NOTIFY ←	←	(X)UDT (TC-End)
	200 OK NOTIFY →		
	Apply post test routine		

TP number	TP_408_027	Reference	7.5.11.1,
			table 7.5.11.1.3
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24	
Test Purpose name	TC-End CCBS CANCEL receive	ed after CCNR was successfu	lly invoked
Test Purpose	Ensure that on receipt of an UE		
	CCNR was successfully invoke		
	to 'NR' in the Request line and		et to 'terminated ' and the
	subexp-params reason set to '	noresource'	
TCAP Parameter values	TC-End		
	CCBS CANCEL		
SIP Parameter values	NOTIFY: <request uri=""></request>		
	Event:call-completion		
	Subscription-State: terminated; reason=noresource		
Comments			
Message flows	Mg	MGCF	SCCP
_	CCNR request successfully invoked		
	NOTIFY ←	· +	(X)UDT (TC-End)
	200 OK NOTIFY →		, , , , ,
	Apply post test routine		

TP number	TP 408 028	Reference	7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/	1		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	Interworking of Remote user from	ee indication at the I-MGCF		
Test Purpose	Ensure that on receipt of a UD	Γ or XUDT containing a TC-Co	nt REMOTE USER FREE	
_	invoke component in the Data	field, a NOTIFY request is sent	and a cc-state body is	
	present set to 'ready'	•	•	
TCAP Parameter values	TC-Cont			
	CCBS REMOTE USER FR	EE		
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: ready			
Comments				
Message flows	Mg	MGCF	SCCP	
	CCNR request successfully invoked			
	NOTIFY	←	(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/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	24			
Test Purpose name	Mapping of CCNR possible inc	dication in a 180 into the CCNR	possible indicator in the ACM		
Test Purpose	Ensure that on receipt of a 180	Ringing provisional response	and a Call-Info header is		
	present set to the URI of the te	erminating user and a purpose	parameter set to		
	'call-completion' and m parame	eter ser to 'NR', an ACM is sen	t and a CCNR possible		
	indicator Parameter is present	set to 'CCNR possible'			
ISUP Parameter values	IAM: Called party number				
	Number digits				
	ACM: Called party status				
	Subscriber free				
	CCNR possible indicate	CCNR possible indicator			
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion</sip:called>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	→	INVITE		
	ACM ←	←	180 Ringing		
	Apply post test routine				

TP number	TP_408_030	Reference	7.5.11.2,	
			table 7.5.11.2.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/	24		
Test Purpose name	Mapping of CCNR possible inc	dication in a 180 into the CCNR	R possible indicator in the CPG	
Test Purpose	Ensure that on receipt of a 180	Ringing provisional response	and a Call-Info header is	
		erminating user and a purpose		
	'call-completion' and m parame	eter ser to 'NR', a CPG is sent i	if an ACM was sent before	
	and a CCNR possible indicato	r Parameter is present set to 'C	CCNR possible'	
ISUP Parameter values	IAM: Called party number			
	Number digits			
	ACM: Called party status			
	No indication			
	CPG: Event indication			
	Alerting			
	CCNR possible indicate	or		
	CCNR possible			
SIP Parameter values	180: Call-Info: <sip:called page<="" th=""><th>arty number digits>;purpose=ca</th><th>all-completion</th></sip:called>	arty number digits>;purpose=ca	all-completion	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	Start Ti/w2		
	ACM(no indication) ←	Timeout Ti/w2 →	INVITE	
	CPG(Alerting) ←	←	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 7.3.1/2 AND PICS 7.3.2/	24		
Test Purpose name	486 with Call-Info header is ma	apped into REL cause 17 and 0	CCBS possible	
Test Purpose	Ensure that on receipt of a 486 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 possible			
SIP Parameter values	486: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion</sip:called>			
Comments			•	
Message flows	ISUP	MGCF	Mg	
	IAM →	→	INVITE	
	REL ←	←	486 Busy Here	
	RLC →	→	ACK	
	Apply post test routine			

TP number	TP_408_032	Reference	7.5.11.2,	
			table 7.5.11.2.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PIC	CS 7.3.2/24		
Test Purpose name	CCSS call indicator in INVITE	IAM is mapped into the m pa	rameter in the Request line in the sent	
Test Purpose		Ensure that on receipt of an IAM and a CCSS call indicator parameter is present set to 'CCSS call', an INVITE request is sent and the Request line contains a m parameter set to 'NR' or 'RS'		
ISUP Parameter values	IAM: CCSS call indic CCSS call	cator		
SIP Parameter values	INVITE: <request uri="">;m=NR or ;m=BS Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion; m=BS or NR</sip:called></request>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	→	→ INVITE	
			← 100 Trying	
	Apply post test routine			

TP number	TP_408_033	Reference	7.5.11.2,
			table 7.5.11.2.2
TSS reference	IMS-SS/CC/		•
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24	
Test Purpose name	TC-Begin CCBS REQUEST (in	voke) is mapped into SUBCRI	BE request invokes CCBS
Test Purpose	Ensure that on receipt of a UD		
	(invoke) component, a SUBSC		
	Identity header are derived fror		
	is derived from the CCBS REQ		
	'call-completion' the Request lin	ne contains the m parameter s	et to 'BS'
TCAP Parameter values	TC-Begin		
	CCBS REQUEST invoke		
	CalledPartyNumber		
	CallingPartyNumber		
	retainSupported		
	TRUE		
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>		
		from the CCBS REQUEST Cal	
		n the CCBS REQUEST Called	
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>		
	CallingPartyNumber >		
	Event: call-completion		
	Expires: <any th="" va<=""><th>lue></th><th></th></any>	lue>	
Comments			
Message flows	SCCP	MGCF	Mg
	(X)UDT(TC-Begin) →	→	SUBSCRIBE
		←	202 Accepted
		Apply post test routine	

TP 408 034	Reference	7.5.11.2,			
11 _400_004	Reference	table 7.5.11.2.2			
IMS-SS/CC/		table 7.0.11.2.2			
	3 2/24				
		o SUBCRIBE request invokes CCNR			
Identity header are derived	from the CCNR REQUE	ST CallingPartyNumber the To header			
	от низ остнание иле иле на ра				
	ke				
_	RI>. m=NR				
		UEST CallingPartvNumber >			
To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>					
P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>					
	CallingPartyNumber >				
	'	,			
SCCP	MGCF	Mg			
(X)UDT(TC-Begin) →		→ SUBSCRIBE			
€ 202 Accepted					
	Apply post test routine				
	TC-Begin CCNR REQUES Ensure that on receipt of a (invoke) component, a SUE Identity header are derived is derived from the CCNR F 'call-completion' the Reque TC-Begin CCNR REQUEST invo CalledPartyNumber CallingPartyNumber CallingPartyNumber TRUE SUBSCRIBE: <request <derived="" call-completed="" complete="" complete<="" completed="" event:="" from:="" p-asserted-="" th="" uf=""><th>IMS-SS/CC/ PICS 7.3.1/2 AND PICS 7.3.2/24 TC-Begin CCNR REQUEST (invoke) is mapped into Ensure that on receipt of a UDT or XUDT containing (invoke) component, a SUBSCRIBE request is sent Identity header are derived from the CCNR REQUE is derived from the CCNR REQUEST CalledPartyN 'call-completion' the Request line contains the m paterior TC-Begin CCNR REQUEST invoke CalledPartyNumber CallingPartyNumber callingPartyNumber retainSupported TRUE SUBSCRIBE: <request uri="">, m=NR From: <derived (allingparty)="CallingParty" =="" callingparty="CallingP</th" ccnr="" from="" request="" the=""></derived></request></th></request>	IMS-SS/CC/ PICS 7.3.1/2 AND PICS 7.3.2/24 TC-Begin CCNR REQUEST (invoke) is mapped into Ensure that on receipt of a UDT or XUDT containing (invoke) component, a SUBSCRIBE request is sent Identity header are derived from the CCNR REQUE is derived from the CCNR REQUEST CalledPartyN 'call-completion' the Request line contains the m paterior TC-Begin CCNR REQUEST invoke CalledPartyNumber CallingPartyNumber callingPartyNumber retainSupported TRUE SUBSCRIBE: <request uri="">, m=NR From: <derived (allingparty)="CallingParty" =="" callingparty="CallingP</th" ccnr="" from="" request="" the=""></derived></request>			

TP number	TP_408_035	Reference	7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24		
Test Purpose name	TC-Cont CCBS SUSPEND is in "closed"	nterworked into PUBLISH with	m=BS and PIDF basic status	
Test Purpose	CCBS or CCNR is invoked and the remote user is free. 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 'closed'			
TCAP Parameter values	TC-Cont CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS or ;m=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>close</basic>	d		
Comments	Note the XML semantic is sche	matically the alias is not consi	dered	
Message flows	SCCP	MGCF	Mg	
_	Invoke a successful CCBS/CCNR request and remote user is now free			
	(X)UDT(TC-Cont) → PUBLISH			
	, , , , , , , , , , , , , , , , , , , ,	+	200 OK (PUBLISH)	
		Apply post test routine		

TP number	TP 408 036	Reference	7.5.11.2,		
i F number	IF_400_030	Reference	· · · · · · · · · · · · · · · · · · ·		
T00 (11.10.00/00/		table 7.5.11.2.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	24			
Test Purpose name	TC-Cont CCBS RESUME is in	terworked into PUBLISH with	m=NR and PIDF basic status		
	"open"				
Test Purpose	CCBS or CCNR is invoked an	d the remote user is free the o	riginating user is suspended.		
	Ensure that on receipt of a TC	-Cont CCBS SUSPEND invok	e component, a PUBLISH		
			RI set to 'BS' or 'NR' the Event		
			sent the presence status set to		
	'open'	, ,	•		
TCAP Parameter values	TC-Cont				
	CCBS RESUME				
SIP Parameter values	PUBLISH: <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>				
	<pre><basic>open</basic></pre>				
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	SCCP	MGCF	Mg		
	Successful CCBS/CCNR request and originating user suspended				
	(X)UDT(TC-Cont) → PUBLISH				
	(X) → 1 OBEIGH ← 200 OK (PUBLISH)				
	Apply post test routine				
	Appriy post test routine				

TP number	TP_408_037	Reference	7.5.11.2,
			table 7.5.11.2.2
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2/2	24	
Test Purpose name	TC-End CCBS CANCEL is inte	rworked into SUBSCRIBE with	n m=BS or NR and Expires
	header set to '0'		
Test Purpose	A CCBS or CCNR is successfu	Illy invoked. Ensure that on rec	eipt of a UDT or XUDT
	containing a TC-End CCBS CA		
	parameter is present in the Re-		e Event header field is set to
	'call-completion' and the Expire	es header is set to '0'	
TCAP Parameter values	TC-End: CCBS CANCEL		
SIP Parameter values	SUBSCRIBE: <request uri="">; m=BS or ;m='NR'</request>		
	Event:call-completion		
	Expires: 0		
Comments			
Message flows	SCCP	MGCF	Mg
	A CCBS is successfully invoked		
	(X)UDT (TC-End) →	→	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 7.3.1/2 AND PICS 7.3.2/	/24	
Test Purpose name	A NOTIFY cc-state 'queued' a	nd cc-service-retention 'true' is	mapped into a TC-Cont
	CCBS REQUEST (return resu		
Test Purpose			r field is set to 'call-completion'
	the cc-state body is set to 'que	eued' and the cc-service-retenti	on body is set to 'true', a
		REQUEST (return result) con	nponent is present the
	RetainSupported element is se	et to 'TRUE'	
TCAP Parameter values	TC-Cont: CCBS REQUEST (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) ←	←	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 7.3.1/2 AND PICS 7.3.2	/24	
Test Purpose name	A NOTIFY cc-state 'queued' a	nd no cc-service-retention body	y present is mapped into a
	TC-Cont CCBS REQUEST (re	eturn result) retain not supporte	d
Test Purpose			r field is set to 'call-completion'
		eued' and the cc-service-retenti	
		S REQUEST (return result) con	nponent is present the
	RetainSupported element is s	et to 'FALSE'	
TCAP Parameter values	TC-Cont: CCBS REQUEST (
	RetainSupporte		
SIP Parameter values	NOTIFY: Event: call-complet	ion	
	Content-Type: application/call-completion		
	cc-state: queued		
Comments			
Message flows	SCCP	MGCF	Mg
	CCBS request already invoked		
	(X)UDT (TC-Cont) ←	-	NOTIFY
		→	200 OK (NOTIFY)
	Apply post test routine		

TP number	TP 408 040	Reference	7.5.11.2,
			table 7.5.11.2.3
TSS reference	IMS-SS/CC/	1	
Selection criteria	PICS 7.3.1/2 AND PIC	CS 7.3.2/24	
Test Purpose name	-	ueued' and cc-service-retent turn result) retain supported	on 'true' is mapped into a TC-Cont
Test Purpose	Ensure that on receipt of a NOTIFY request the Event header field is set to 'call-completion' the cc-state body is set to 'queued' and the cc-service-retention body is set to 'true', a TC-Cont is sent and the CCNR REQUEST (return result) component is present the RetainSupported element is set to 'TRUE'		
TCAP Parameter values		QUEST (return result) Supported=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)	←	← NOTIFY
			→ 200 OK (NOTIFY)
	Apply post test routine		

TP number	TP_408_041	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PICS 7.3.2	2/24		
Test Purpose name	A NOTIFY cc-state 'queued' a	and cc-service-retention 'true' is	mapped into a TC-Cont	
	CCNR REQUEST (return res	ult) retain not supported		
Test Purpose	Ensure that on receipt of a NO	OTIFY request the Event heade	er field is set to 'call-completion'	
	the cc-state body is set to 'que	eued' and the cc-service-retent	ion body is not present, a	
	TC-Cont is sent and the CCN	R REQUEST (return result) cor	mponent is present the	
	RetainSupported element is s	et to 'FALSE'		
TCAP Parameter values	TC-Cont: CCNR REQUEST	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) ←	+	NOTIFY	
	,	→	200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_408_042	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/	IMS-SS/CC/			
Selection criteria	PICS 7.3.1/2 AND PIC	S 7.3.2/24			
Test Purpose name	CCBS request unsucc	essful 480 Temporarily Unav	vailable is received		
Test Purpose	Ensure that on receipt of a 480 Temporarily Unavailable final response upon CCBS was requested, a TC-End CCBS REQUEST (Return error) component containing the ShortTermDenial Element is sent				
TCAP Parameter values	TC-End CCBS REQUI	EST (Return error) rtTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS Event: call-completion</request>				
Comments		•			
Message flows	SCCP	MGCF	Mg		
	(X)UDT (TC-Begin)	→	→ 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 7.3.1/2 AND PIC	CS 7.3.2/24		
Test Purpose name	CCNR request unsuc	cessful 480 Temporarily Ur	navailable is received	
Test Purpose	Ensure that on receipt of a 480 Temporarily Unavailable final response upon CCNR was requested, a TC-End CCNR REQUEST (Return error) component containing the ShortTermDenial Element is sent			
TCAP Parameter values	TC-End CCNR REQUEST (Return error) ShortTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR Event: call-completion</request>			
Comments		•		
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin)	→	→ SUBCRIBE	
	(X)UDT (TC-End)	←	 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 7.3.1/2 AND PICS	5 7.3.2/24		
Test Purpose name	CCBS request unsucce	ssful 403 Forbidden is rece	ived	
Test Purpose		Ensure that on receipt of a 403 Forbidden final response upon CCBS was requested, a TC-End CCBS REQUEST (Return error) component containing the LongTermDenial		
	Element is sent			
TCAP Parameter values	TC-End CCBS REQUE	ST (Return error)		
	Long ⁻	TermDenial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>			
	Event: call-completion			
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin)	→	→ SUBCRIBE	
	(X)UDT (TC-End)	←	← 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 7.3.1/2 AND PIC	CS 7.3.2/24		
Test Purpose name	CCNR request unsucc	cessful 403 Forbidden is sen	t	
Test Purpose	Ensure that on receipt of a 403 Forbidden final response upon CCNR was requested, a TC-End CCNR REQUEST (Return error) component containing the LongTermDenial			
	Element is sent			
TCAP Parameter values	TC-End CCNR REQUEST (Return error) LongTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>			
	Event: call-completion			
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT (TC-Begin)	→	→ SUBCRIBE	
	(X)UDT (TC-End)	←	← 403 Forbidden	
	Apply post test routine			

TP number	TP 408 046	Reference	7.5.11.2,	
	11 _ 100_0 10	i toronoro	table 7.5.11.2.3	
TSS reference	IMS-SS/CC/	•	•	
Selection criteria	PICS 7.3.1/2 AND PIC	CS 7.3.2/24		
Test Purpose name	CCBS invoked. SUBC	RIBE Expires 0 received TC-E	End is sent	
Test Purpose	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params reason set to 'noresource' upon CCBS was successfully invoked, a TC-End message is sent containing the CCBS CANCEL			
	component			
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""></request>			
	Event:call-completion			
	Subscription-State: terminated; reason=noresource			
Comments				
Message flows	SCCP	MGCF	Mg	
	CCBS request successfully invoked			
	(X)UDT (TC-End)	←	← 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 7.3.1/2 AND PICS	7.3.2/24		
Test Purpose name	CCNR invoked at the O-	MGCF SUBCRIBE Expires	s 0 received TC-End is sent	
Test Purpose	'terminated' and the sub-	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params reason set to 'noresource' upon CCNR was successfully invoked, a TC-End message is sent containing the CCBS CANCEL		
	component			
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""></request>			
	Event:call-completion			
	Subscription-State: terminated; reason=noresource			
Comments				
Message flows	SCCP	MGCF	Mg	
	CCNR request successfully invoked			
	(X)UDT (TC-End)	←	← 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 7.3.1/2 AND P	ICS 7.3.2/24	
Test Purpose name	Interworking of Remo	ote user free indication at the C)-MGCF
Test Purpose			state body is set to 'ready' upon Call
			essage is sent containing the CCBS
	REMOTE USER FRI	EE component	
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 suc	cessfully invoked
	(X)UDT (TC-Cont)	←	← 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 7.3.1/2 AND PICS 7.3	.2/8		
Test Purpose name	Mapping of Generic notification	ion 'call waiting' in an ACM i	nto Alert-Info header	
Test Purpose	Ensure that on receipt of an	ACM the Called party status	s indicator is set to 'subscriber free'	
	and a Generic notification in	dicator 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	<u>)</u> '		
ISUP Parameter values	ACM: Backward call indica	ACM: Backward call indicator		
	Called party status indicator			
	Subscriber free			
	Generic notification			
	Call is a waiting of	all		
SIP Parameter values	180: Alert-Info			
	urn:alert:service:call-waiting			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	→	→ IAM	
	180 Ringing ← ← ACM			
	Apply post test routine			

TP number	TP 409 002	Reference	7.5.12		
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 7.3.1/2 AND PICS	7.3.2/8			
Test Purpose name	Mapping of Generic notif	ication 'call waiting' in a CP	G into Alert-Info header		
Test Purpose	notification indicator para	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' and a Generic notification indicator parameter is present set to "Call is a waiting call," a 180 Ringing is sent. An Alert-Info header is present and the urn is set to 'urn:alert:service:call-waiting'			
ISUP Parameter values	CPG: Event indicator Alerting Generic notification Call is a waiting call				
SIP Parameter values	180: Alert-Info urn:alert:servio	ce:call-waiting			
Comments		•			
Message flows	Mg INVITE 180 Ringing	MGCF → ← Apply post test re	ISUP → IAM ← ACM ← CPG outine		

TP number	TP_409_003	Reference		7.5.12	
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 7.3.1/2 AN	ND PICS 7.3.2/8			
Test Purpose name	Interworking of t	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in an ACM			
Test Purpose	to 'urn:alert:serv	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	Calle S Generic	ACM: Backward call indicator Called party status indicator Subscriber free Generic notification Call is a waiting call			
SIP Parameter values		180: Alert-Info urn:alert:service:call-waiting			
Comments		-			
Message flows	Mg IAM ACM Apply post tes	MGCF → ← t routine	→ ←	ISUP INVITE 100 Trying 180 Ringing	

TP number	TP_409_004	Referenc	9	7.5.12	
TSS reference	IMS-SS/CW/	IMS-SS/CW/			
Selection criteria	PICS 7.3.1/2	AND PICS 7.3.2/8			
Test Purpose name	Interworking of CPG	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a CPG			
Test Purpose	to 'urn:alert:s	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	Ale Gener	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 IAM ACM Apply post to	MGCF → ← est routine	→ ← ←	ISUP INVITE 100 Trying 180 Ringing	

Annex A (informative): Bibliography

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

History

Document history			
V3.1.1	May 2011	Publication	