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

#### Reference

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# Contents

Intelle	ectual Property Rights	5
Forew	vord	5
1	Scope	6
2	References	6
2.1	Normative references	
2.2	Informative references	
	Definitions, symbols and abbreviations	
3.1	Definitions	
3.2	Symbols	
3.3	Abbreviations	
4	Test Suite Structure (TSS)	
5	Test Purposes (TP)	
5.1	Introduction	
5.1.1	TP naming convention	
5.1.2	Test strategy	
5.1.3	Test purpose structure	9
6	Test purposes (TP)	9
6.1	SÎP-ISUP protocol interworking	
6.1.1	Incoming call interworking from SIP to ISUP at I-MGCF	9
6.1.1.1	Sending of IAM	9
6.1.1.2	6	
6.1.1.3	Sending of SAM	38
6.1.1.4		
6.1.1.5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6.1.1.6	6	
6.1.1.7	T	
6.1.1.8	· · · · · · · · · · · · · · · · · · ·	
6.1.1.9	1	
6.1.1.1		
6.1.2	Outgoing Call Interworking from ISUP to SIP at O-MGCF	
6.1.2.1		
6.1.2.2		
6.1.2.3	e e	
6.1.2.4		
6.1.2.5		
6.1.2.6 6.1.2.7		
6.1.2. <i>1</i> 6.1.2.8	•	
6.1.2.6 6.1.2.9	±	
6.1.2. <i>3</i>		
6.1.2.1 6.1.2.1	1 '	
6.2 6.2	Supplementary Services	
6.2.1	Void	
6.2.2	Connected line presentation and restriction (COLP/COLR).	
6.2.3	Malicious call identification	
6.2.4	Subaddressing (SUB)	
6.2.5	Call Forwarding Busy (CFB)/ Call Forwarding No Reply (CFNR) / Call Forwarding Unconditional	
	(CFU)	199
6.2.6	Explicit Call Transfer (ECT)	
6.2.7	Call Waiting	
6.2.8	Call Hold	
6.2.9	Call Completion on busy subscriber	251
6.2.10	Completion of Calls on No Reply (CCNR)	251

6.2.11	Terminal Portability (TP)	252		
6.2.12	Conference calling (CONF) / Three-Party Service (3PTY)	253		
6.2.13	Closed User Group (CUG)			
6.2.14	Multi-Level Precedence and Pre-emption (MLPP)	261		
6.2.15	Global Virtual Network Service (GVNS)			
6.2.16	Reverse charging (REV)	263		
6.2.17	User-to-User Signalling (UUS)			
6.2.17.1	User-to-User Signalling (UUS) service 1 (implicit)	265		
6.2.17.2	User-to-User Signalling (UUS) service 1 (explicit)	267		
6.2.17.3	User-to-User Signalling (UUS) service 2	269		
6.2.17.4	User-to-User Signalling (UUS) service 3	270		
6.2.18	Anonymous Call rejection	272		
6.3	IMS Supplementary Services	273		
6.3.1	Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR)	273		
6.3.2	Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)	296		
6.3.3	Communication Diversion (CDIV)	302		
6.3.4	Conference call (CONF)	336		
6.3.5	Message Waiting Indication (MWI)	345		
6.3.6	Malicious Communication Identification (MCID)	345		
6.3.7	Closed User Group (CUG)	352		
6.3.8	CCBS/CCNR	356		
6.3.9	Communication Waiting (CW)	378		
Annex A	(informative): Bibliography	380		
History .		381		

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#### **Foreword**

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

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

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

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

Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

# 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 referenced document (including any amendments) applies.

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

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_ <gro< th=""><th>up&gt;_<nnn></nnn></th><th></th><th></th></gro<>	up>_ <nnn></nnn>		
<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 recepti message	on of a SIP INV	ITE requesting	a sessio	on, the I-I	MGCF sends an IAM
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
	INVITE	→		<b>→</b>	IAM	
	100 Trying	<b>←</b>				
		Арр	ly post test rou	utine		

TP number	TP_101_002			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
Test Purpose name	Preconditions support indicated in the Supported header COT procedure supported			
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The IAM is immediately sent. The Nature of connection indicator is set to 'continuity check performed on a previous circuit' or 'continuity check required'. After the UPDATE was received, a COT is sent			
ISUP Parameter values	<b>IAM:</b> Nature of connection indicator = 'continuity check performed on a previous circuit' or			
	continuity check required'			
	COT: Continuity indicator = 'Continuity check successful'			
SIP Parameter values	INVITE: Supported: precondition, 100rel  SDP			
	183: Require: 100rel  SDP			
	UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv			
Comments				
Message flows	Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         +         +           183 Session Progress         ←         PRACK         →           200 OK (PRACK)         ←         +         +           UPDATE         →         COT			
	UPDATE → COT 200 OK (UPDATE) ←			
	Apply post test routine			
	The street intrine			

TP number	TP_101_003   Reference   7.2.3.1.1
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2
Test Purpose name	Preconditions support indicated in the Supported header
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is
	indicated in the Supported header. The IAM is sent after the UPDATE was received. The
	Nature of connection indicator is set to 'continuity check is not required'
ISUP Parameter values	IAM: Nature of connection indicator = 'continuity check is not required'
SIP Parameter values	INVITE: Supported: precondition, 100rel
	SDP a=curr:qos local none
	a=curr:qos remote none
	a=des:qos mandatory local sendrecv
	a=des:qos none remote sendrecv
	102. Doguiro, 100rol
	183: Require: 100rel SDP a=curr:qos local none
	a=curr:qos remote none
	a=des:gos mandatory local sendrecv
	a=des:qos mandatory remote sendrecv
	a=conf:qos remote sendrecv
	a-comission 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:gos local sendrecv
	a=curr:qos remote sendrecv
	a=des:qos mandatory local sendrecv
	a=des:gos mandatory remote sendrecv
Comments	
Message flows	Mg MGCF ISUP
	INVITE →
	100 Trying ←
	183 Session Progress ←
	PRACK →
	200 OK (PRACK) ←
	UPDATE → IAM
	200 OK (UPDATE) ←
	Apply post test routine
,	

TP number	TP_101_004   Reference   7.2.3.1.1			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
Test Purpose name	Preconditions support indicated in the Require header			
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Require header. The IAM is immediately sent. The Nature of connection indicator is set to 'continuity check performed on a previous circuit' or 'continuity check required'. After the UPDATE was received, a COT is sent			
ISUP Parameter values	<b>IAM:</b> Nature of connection indicator = 'continuity check performed on a previous circuit' or			
	'continuity check required'			
	COT: Continuity indicator = 'Continuity check successful'			
SIP Parameter values	INVITE: Require: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv			
	183: Require: 100rel SDP			
	UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv			
Comments				
Message flows	Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         +         +           183 Session Progress         ←         +         +           PRACK         →         +         +           200 OK (PRACK)         ←         +         +           UPDATE         →         COT			
	UPDATE         →         COT           200 OK (UPDATE)         ←			
	Apply post test routine			
	1			

TP number	TP_101_005			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
Test Purpose name	Preconditions support indicated in the Require header			
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is			
	indicated in the Require header. The IAM is sent after the UPDATE was received. Th	е		
	Nature of connection indicator is set to 'continuity check is not required'			
ISUP Parameter values	IAM: Nature of connection indicator = 'continuity check is not required'			
SIP Parameter values	INVITE: Require: precondition, 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos none remote sendrecv			
	100. Doguiro, 100rol			
	183: Require: 100rel SDP a=curr:gos local none			
	· ·			
	a=curr:qos remote none a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv			
	a=conf:qos remote sendrecv			
	JPDATE:			
	SDP a=curr:qos local sendrecv			
	a=curr:qos remote none			
	a=des:gos 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	M. MOOF JOUR			
Message flows	Mg MGCF ISUP			
	INVITE -			
	100 Trying ←			
	183 Session Progress			
	PRACK -			
	200 OK (PRACK)			
	UPDATE → IAM			
	200 OK (UPDATE)			
	Apply post test routine			

TP number	TP_101_006			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS 6.2.1/2			
Test Purpose name	Preconditions support indicated in the Supported header COT procedure supported			
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is			
	indicated in the Supported header. The IAM is immediately sent. The Nature of connection			
	indicator is set to 'COT to be expected'. After the UPDATE was received, a COT is sent			
ISUP Parameter values	IAM: Nature of connection indicator = 'COT to be expected'			
	COT: Continuity indicator = 'Continuity check successful'			
SIP Parameter values	INVITE: Supported: precondition, 100rel			
	SDP a=curr:qos local none			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos none remote sendrecv			
	192: Poquiro: 100rol			
	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 sentrecv			
	UPDATE:			
	SDP a=curr:qos local sendrecv			
	a=curr:qos remote none			
	a=des:qos mandatory local sendrecv			
	a=des:qos mandatory remote sendrecv			
	200 OK UPDATE			
	SDP a=curr:qos local sendrecv			
	a=curr:qos remote sendrecv			
	a=des:qos mandatory local sendrecv			
Comments	a=des:qos mandatory remote sendrecv			
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying ←			
	183 Session Progress			
	PRACK →			
	00 OK (PRACK)			
	UPDATE → COT			
	200 OK (UPDATE)			
	Apply post test routine			
L	The state of the s			

TP number	TP_101_007		Reference	7.3.3.1.1	
TSS reference		sic call/Sending_			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2				
Test Purpose name	Preconditions support indicated in the Supported header				
Test Purpose			procedure is success		
			ader. The IAM is sent		was received. The
			is set to 'no COT to b		
ISUP Parameter values			ndicator = 'no COT to b	oe expected'	
SIP Parameter values		pported: precond			
	SDP	a=curr:qos local			
		a=curr:qos remo			
			datory local sendrecv		
		a=des:qos none	e remote sendrecv		
	102. Doguita	100rol			
	183: Require: SDP		Lnono		
	SDP	a=curr:qos local a=curr:qos remo			
			datory local sendrecv		
			datory remote sendred	rv.	
				, v	
		a=conf:qos remote sendrecv			
	UPDATE:				
	SDP	a=curr:qos local	l sendrecv		
		a=curr:qos remo			
			datory local sendrecv		
		a=des:qos man	datory remote sendred	CV	
	200 OK UPDA				
	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	М	a	MGCF		ISUP
moodage nowe	INVITE	9 <del>-</del> 1			1001
	100 Trying	•			
	183 Session F				
	PRACK	10g1c33			
	200 OK (PRA				
	UPDATE			→ IAM	
	200 OK (UPD			# 17 VIVI	
	200 010 (01 D	, ,	Apply post test ro	outine	
L	1		Apply pool tool It		

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

TP number	TP_101_009   Reference   7.3.3.1.1				
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS 6.2.1/2				
Test Purpose name	Preconditions support indicated in the Require header				
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Require header. The IAM is 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				
	83: Require: 100rel SDP				
	UPDATE:  SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv				
	200 OK UPDATE  SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv				
Comments					
Message flows	Mg         MGCF         ISUP           INVITE         →           100 Trying         ←           183 Session Progress         ←           PRACK         →           200 OK (PRACK)         ←           UPDATE         →           200 OK (UPDATE)         ←           Apply post test routine				

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

TP number	TP_101_011	Refe	rence		7.2.3.1.1	1	
TSS reference	SIP-ISUP/Basic call/Ser	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria							
Test Purpose name	Unsupported media type	is rejected	session success	ful			
Test Purpose	Ensure that an unsuppo port number '0' for the co			he SUT	sends in	the SDP answer the	
ISUP Parameter values							
SIP Parameter values	INVITE: SDP: m=audio 471 m= video 471  180 Ringing or 183 Sess SDP: m=audio <ap 0="" m="video" r<="" th=""><th>3 RTP/AVP sion Progres propriate Po</th><th>31 s</th><th></th><th></th><th></th></ap>	3 RTP/AVP sion Progres propriate Po	31 s				
Comments							
Message flows	Mg INVITE 100 Trying  CASE A	<b>→</b>	MGCF	<b>→</b>	IAM ACM	ISUP	
	180 Ringing  CASE B  183 Session Progress	<b>←</b> <b>←</b>	ply post test ro	utine			

TP number	TP_101_012	Reference	7.2.3.1.1			
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	<u> </u>					
Test Purpose name	Unsupported codec is deselec	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 <appropria< th=""><th colspan="5">SDP: m=audio <appropriate #="" port=""> RTP/AVP 8</appropriate></th></appropria<>	SDP: m=audio <appropriate #="" port=""> RTP/AVP 8</appropriate>				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	· -	IAM			
	100 Trying ←	•				
		<b>←</b>	ACM			
	CASE A					
	180 Ringing ←	•				
	CASE B					
	183 Session Progress ←	•				
		Apply post test routine				

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

TP number	TP 101 014	Reference	7.2.3.1.1				
			1.2.3.1.1				
TSS reference	SIP-ISUP/Basic call/Sending_	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria							
Test Purpose name	To header tag is sent in the fir	st provisional response					
Test Purpose	Ensure that a To header tag is	s contained in the first provision	nal response				
ISUP Parameter values							
SIP Parameter values	INVITE: To: <uri></uri>						
	180 Ringing or 183 Session F	rogress: To: <uri>; <tag></tag></uri>					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE -	<b>→</b>	IAM				
	100 Trying						
	← ACM						
	CASE A						
		_					
	100 Kinging	•					
	CASE B						
	183 Session Progress	183 Session Progress					
		Apply post test routine					

TP number	TP_101_015	Referen	ce	7.2.3.1.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria					
Test Purpose name	Coding of called part	ty number			
Test Purpose	<ul> <li>Ensure that an IAM is sent after an INVITE request was received.</li> <li>In case of the 'CC' of the received INVITE request URI is equal to the country code in which the next hop terminates: remove 'CC' from the user info and send the remaining part as digits in the called party number. The nature of address indicator is set to</li> </ul>				
	'National (Signi	ificant) number			
	code in which th without '+' as dig 'International n	ne next hop terminat gits in the called par number' of Number Indicator = cator = 'ISDN (Tele	es: send the unchar ty number. The natu - 'routing to internal	is <b>not</b> equal to the country nged part of the request URI are of address indicator is set to network number not allowed' lan	
ISUP Parameter values	(**************************************				
SIP Parameter values					
Comments					
Message flows	Mg INVITE 100 Trying	<b>→</b>	MGCF →	ISUP IAM	
	Apply post test routine				

TP number	TP_101_016	Refer	ence	7.2.3.1.2.1
TSS reference	SIP-ISUP/Basic call/S	Sending_of_IAM/	1	·
Selection criteria	PICS 6.2.1/21			
Test Purpose name	SendingCompleteInd	ication is mappe	d into a hex digit	'F' in the called party number
Test Purpose	Ensure that on receip			eteIndication element a hex digit 'F'
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg		MGCF	ISUP
_	INVITE	<b>→</b>		→ IAM
	100 Trying	<b>←</b>		
	Apply post test routine			

TP number	TP 101 017	Reference	7.2.3.1.2.2				
TSS reference	SIP-ISUP/Basic call/Sendir		7.2.0.1.2.2				
Selection criteria	PICS 6.1.1/1	<u>-9</u>					
Test Purpose name	Nature of connection indica	ntor					
Test Purpose	The nature of connection in Satellite indicator = 'no satellite indicator = 'no satellite indicator continuity check indicator 'continuity check perform Echo control device indicator   TMR audio 3,1 kHz or	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					
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test routin	ISUP → IAM				

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 6.1.1/2				
Test Purpose name	Nature of connection indicator				
Test Purpose	Ensure that an IAM is sent afte	r an INVITE request was recei	ved.		
	The nature of connection indica	ator is set			
	Satellite indicator = 'no satelli	te circuit in the connection'			
	Continuity check indicator =	'no COT to be expected or 'CC	OT to be expected'		
	Echo control device indicato	r = outgoing echo control device	ce included		
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	Apply post test routine				

TP number	TP_101_019	Reference	7.2.3.1.2.3				
TSS reference	SIP-ISUP/Basic call/Sending_c	of_IAM/					
Selection criteria	NOT PICS 6.2.1/5						
Test Purpose name	Forward Call indicator						
Test Purpose	Ensure that an IAM is sent after	r an INVITE request was rece	eived. If no PSTN XML				
	attachment is present and the follows:	receipt of TMR audio ,the For	ward call indicator is coded as				
	<ul> <li>End-to-end method indicate method available)</li> </ul>	or = ('00') no end-to-end meth	nod available (only link-by-link				
	<ul> <li>Interworking indicator = ('1</li> </ul>	') interworking encountered					
	<ul> <li>End-to-end information inc</li> </ul>	licator = ('0') no end-to-end in	formation available				
	<ul> <li>ISDN user part/BICC indic</li> </ul>	ator = ('0') ISDN user part/BIC	CC not used all the way				
	ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way						
	ISDN access indicator = ('0') originating access non-ISDN						
	SCCP method indicator = ('00') no indication						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE →	INVITE → IAM					
	100 Trying ←						
	Apply post test routine						

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

TP number	TP_101_021	Reference	7.2.3.1.2.3				
TSS reference	SIP-ISUP/Basic call/Sending_c	SIP-ISUP/Basic call/Sending_of_IAM/					
Selection criteria	NOT PICS 6.2.1/5 AND PICS 6	5.2.1/6					
Test Purpose name	Forward Call indicator						
Test Purpose	Ensure that an IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the receipt of TMR 64 kBit/s has impact of the coding of the Forward call indicator, the Forward call indicator is coded as follows:  • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available)  • Interworking indicator = ('0') no interworking encountered  • End-to-end information indicator = ('0') no end-to-end information available  • ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way  • ISDN access indicator = ('1') originating access ISDN						
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE →	<b>→</b>	IAM				
	100 Trying ←						
	Apply post test routine						

TP number	TP_101_022	Reference	7.2.3.1.2.3, Table 02a		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Forward Call indicator				
Test Purpose	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)  • 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	<ul> <li>the way</li> <li>ISDN access indicator = (</li> <li>SCCP method indicator =</li> <li>IAM: Forward call indicator</li> </ul>	1') originating access ISDN ('00') no indication			
SIP Parameter values	INVITE:				
	PSTM XML MIME body xml version="1.0" encoding: PSTN ProgressIndicator ProgressOctet3 CodingStandard 00 Location>yyyy< ProgressOctet4 ProgressDescription	)<			
Comments					
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM		

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

Table 6.1.1.1-1: Coding of calling party category

Values for test purposes TP101032				
SIP_CPC	;	ISUP_CPC		
cpc received in a 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	<b>→</b>	IAM		
	100 Trying	<del>-</del>			
	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 name=""> <clock rate="">[<encoding parameters="">]</encoding></clock></encoding></dynamic-pt>	TMR codes
VA_01	audio	RTP/AVP	0	N/A	"3,1 kHz audio"
VA_02	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	"3,1 kHz audio"
VA_03	audio	RTP/AVP	8	N/A	"3,1 kHz audio"
VA_04	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	"3,1 kHz audio"
VA_05	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>	"64 kbit/s unrestricted"
VA_06	image	Udptl	t38	Based on 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_c	of_IAM/			
Selection criteria					
Test Purpose name	Coding of USI				
Test Purpose	Ensure that an IAM is sent after Information parameter in the IA if present.				
ISUP Parameter values	IAM: USI				
SIP Parameter values	INVITE: SDP m line a attributes				
Comments					
Message flows	Mg INVITE → 100 Trying ←	<del>-</del>	ISUP IAM		
	Appropries routine				

### Table 6.1.1.1-3: Coding of USI

USI_VA		m= line		a= line	USI parameter	
	<media></media>	<transport></transport>	<fmt-list></fmt-list>		Information Transport	User Information Layer 1 Protocol
					Capability	Indicator
VA_01	audio	RTP/AVP	Dynamic PT	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>	"Unrestricted digital information" or "Unrestricted digital inf. w/tones/ann"	
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_101_026	Reference	7.2.	3.1.2.5
SIP-ISUP/Basic call/S	ending_of_IAM/		
Coding of HLC			
IAM: HLC			
INVITE: SDP m line a attributes			
Mg INVITE 100 Trying	<b>→</b> ←	→ IAM	ISUP
	SIP-ISUP/Basic call/Some coding of HLC Ensure that an IAM is Compatibility parameter table 6.1.1.1-4  IAM: HLC INVITE: SDP m line a attributes  Mg INVITE	SIP-ISUP/Basic call/Sending_of_IAM/  Coding of HLC  Ensure that an IAM is sent after an INVITE Compatibility parameter in the IAM is set actable 6.1.1.1-4  IAM: HLC INVITE: SDP m line a attributes  Mg INVITE 100 Trying  Medical IAM/  Medical IAM/  Medical IAM/  Minute IAM/  Min	SIP-ISUP/Basic call/Sending_of_IAM/  Coding of HLC  Ensure that an IAM is sent after an INVITE request was received. Compatibility parameter in the IAM is set according the mapping d table 6.1.1.1-4  IAM: HLC INVITE: SDP m line a attributes  Mg MGCF INVITE  A MGCF

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_c	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML HighLayerCompatibility			
Test Purpose	Ensure that on receipt of a PS HighLayerCompatibility elemer IE present in an ISUP Access derived from the PSTN XMLHight	nt, this information is mapped ir Transport Parameter the High I	nto a High Layer Compatibility Layer Characteristics value is	
ISUP Parameter values	IAM: ATP High Layer Compatibility High Layer Characterist	iics> <b>HLC_value</b>		
SIP Parameter values	High Layer Characteristics>HLC_value  INVITE:  PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4  HighLayerCharacteristics>HLC_value<			
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 6.2.1/5			
Test Purpose name	Mapping of PSTN XML LowLa	yerCompatibility		
Test Purpose	Ensure that on receipt of a PS LowLayerCompatibility element IE present in an ISUP Access	it, this information is mapped in Transport Parameter the Inform	nto a Low Layer Compatibility mation Transfer Capability	
	value is derived from the PSTN	N XMLInformationTransferCap	ability element	
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	pability= <b>ITC_VA</b>		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00<			
	InformationTransferCapability>ITC_VA<			
	LLOctet4>			
	TransferMode>00<			
	InformationTransfer	Rate>10000<		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	→	IAM	
	100 Trying ←	•		
		Apply post test routine		

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

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

TP number	TP 101 029	Reference	7.2.3.1.2.5	
TSS reference	SIP-ISUP/Basic call/Se	nding of IAM/	1=	
Selection criteria	PICS 6.2.1/5	<u>g_</u> <u>-</u>		
Test Purpose name	Mapping of PSTN XML BearerCapability into TMR and USI			
Test Purpose	Ensure that on receipt of BearerCapability elements Parameter the Information	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a BearerCapability element, this information is mapped into a <b>User Service Information</b> Parameter the Information Transfer Capability value is derived from the PSTN XMLInformationTransferCapability element		
ISUP Parameter values	IAM: USI Information Trar	nsfer Capability= <b>ITC_value</b>		
SIP Parameter values	PSTN  BearerCapability  BCoctet3  CodingStand InformationT  BCoctet4  TransferMod InformationT  BCoctet5	BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000<		
Comments				
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test re	ISUP → IAM  putine	

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

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

TP number	TP_101_030	Reference	7.2.3.1.2.5		
TSS reference	SIP-ISUP/Basic call/Sending	of IAM/			
Selection criteria	PICS 6.2.1/5AND PICS 6.2.1				
Test Purpose name	Mapping of PSTN XML High	LayerCompatibility into User	Teleservice Information		
-	parameter				
Test Purpose	Ensure that on receipt of a P	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a			
	HighLayerCompatibility element, this information is mapped into a User Teleservice				
	Information parameter the I	Information parameter the High Layer Characteristics value is derived from the PSTN			
	XML HighLayerCharacteristic	cs element			
ISUP Parameter values	IAM:				
	UTI				
	High Layer Character	istics>HLC_value			
SIP Parameter values	INVITE:				
	PSTN XML MIME body				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100				
	PresentationMeth	od>01<			
	HLOctet4				
	HighLayerCharact	eristics> <b>HLC_value</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
		-	→ IAM		
	100 Trying	←			
		Apply post test routing	e		

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/Sen	ding_of_IAM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Fall Back connection type					
Test Purpose	<ul><li>body:</li><li>The first stated code</li></ul>	ec in the SDP m line is the ed				
	Service prime (USI p	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				
	BearerCapability ele Service Information		element is mapped into the User IAM, the TMR prime is set according			
ISUP Parameter values	IAM:					
	TMR = second Information					
	TMR prime = first Informa					
	USI = first BearerCapabi					
OID Developed	USI prime = second Bea	rerCapability				
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					
	CodingStanda	urd>00<				
	InformationTra	ansferCapability>10001<				
Comments	codec		and as the second codec a G.711			
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying ←					
		Apply post test ro	utine			

TP number	TP_101_032		
TSS reference	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Fall Back connection type is not sent		
Test Purpose	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  Ensure that the IAM does not contain the Fallback connection type if the succeeding network does not support the Fallback connection type:  TMR = Speech or audio 3,1 kHz  USI = Speech or audio 3,1 kHz  A TMR prime parameter is not present		
	A USI prime is not present		
ISUP Parameter values  SIP Parameter values	IAM:  TMR = second InformationTransferCapability  TMR prime = is not present  USI = speech or audio 3,1 kHz  USI prime = is not present  INVITE: PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN  BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>00000<  or InformationTransferCapability>10000<  BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>10000<  SearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>10001<  SDP:  m=audio <pre> m=audio <pre> m=audio <pre> m=audio <pre> m=audio <pre> TRTP/AVP CLEARMODE 8  BCOCTED TOTAL  T</pre></pre></pre></pre></pre>		
Comments	SDP: m line contains as the first codec CLEARMODE and as the second codec a G.711		
	codec		
Magazia flavor	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	Reference	7.2.3.1.2.9
TSS reference	SIP-ISUP/Basic call/Sending_	of_IAM/	
Selection criteria	PICS 6.2.1/8		
Test Purpose name	Max-Forwards received, HOP	is sent	
Test Purpose	Ensure that on receipt of the Notice counter. The value of the HOF a given factor		lue is mapped into the Hop wards header 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_o	of_IAM/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Progre	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	N	
	Progress Description=F	'I_value	
SIP Parameter values	INVITE:	W 46 0W0	
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet3		
	CodingStandard>00<		
	Location>0000<		
	ProgressOctet4		
	ProgressDescription> <b>PI_value</b> <		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	· <b>→</b>	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	'0000010'	Destination address is non-ISDN
PI_VA_3	'0000011'	Origination address is non-ISDN
PI_VA_4	'0000100'	Call has returned to the ISDN
PI_VA_5	'0000101'	Interworking has occurred and has resulted in a telecommunication service change
PI_VA_6	'0001000'	In-band information or an appropriate pattern is now available

TP number	TP_101_035	Reference	7.2.3.1.2A.1.1
TSS reference	SIP-ISUP/Basic call/Ser	nding_of_IAM/	
Selection criteria	PICS 6.2.2/1		
Test Purpose name	Number Portability Sepa	arate Directory Number Add	ressing Method is used. A Called
	Directory Number is pres	sent in the sent IAM	-
Test Purpose	Ensure that on receipt of	f an initial INVITE request o	containing the <b>rn</b> and <b>npdi</b> parameters
		M is sent. The Called Part	
	<ul> <li>Nature of address</li> </ul>	indicator: "Network routing	g number in national (significant)
	number format" or "	'National (significant) numb	er" <b>or</b> "Network routing number in
	network specific nur	mber format"	
	<ul> <li>Internal Network N</li> </ul>	lumber Indicator: routing t	o internal network number not allowed
	<ul> <li>Numbering plan In</li> </ul>	dicator: ISDN (Telephony)	numbering plan (Recommendation
	<i>E.164 [</i> i.1 <i>]</i> )		
	Address Signal: de	erived from the user info of	the request URI the country code is
	removed.		
	The Called Directory N		
		indicator "National (signifi	,
		9	o internal network number not allowed
	· · · · · · · · · · · · · · · · · · ·	dicator: ISDN (Telephony)	numbering plan (Recommendation
	<i>E.164 [</i> i.1 <i>]</i> )		
	_	-	er if the Number Portability Routing
	Number contains an E164 number the country code is removed else the address digits		
	applied unchanged		
ISUP Parameter values	IAM:		
		, Called Directory Number	
SIP Parameter values	INVITE:		
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>		
Comments		be received in arbitrary or	
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	100 Trying	<b>←</b>	
	Apply post test routine		

TP number	TP_101_036	Reference	7.2.3.1.2A.1.2	
TSS reference	SIP-ISUP/Basic call/S	SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.2/2			
Test Purpose name	Number Portability Copresent	oncatenated Addressing Metho	od is used. The called party number is	
Test Purpose	<ul> <li>Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters in the request line, an IAM is sent. The Called Party Number is set to:</li> <li>Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number"</li> <li>Internal Network Number Indicator: routing to internal network number not allowed</li> <li>Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation E.164 [i.1])</li> <li>Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed else the address digits applied unchanged. The called party number derived from the user info is appended except the country code</li> </ul>			
ISUP Parameter values	IAM: Called party numb	ber		
SIP Parameter values	INVITE:		r Portability Routing Number>; npdi	
Comments	The URI parameters can be received in arbitrary order			
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM	
	Apply post test routine			

TP number	TP_101_037	Reference	7.2.3.1.2A.1.3
TSS reference	SIP-ISUP/Basic call/Sendi	ng_of_IAM/	
Selection criteria	PICS 6.2.2/3		
Test Purpose name			per Addressing Method is used. A
	Network Routing Number i		
Test Purpose			ontaining the <b>rn</b> and <b>npdi</b> parameters
	in the request line, an IAM		
		dicator: "National (signification	•
			internal network number not allowed
	<ul> <li>Numbering plan Indie</li> </ul>	cator: ISDN (Telephony)	numbering plan (Recommendation
	E.164 [i.1])		
		ved from the user info of t	he request URI the country code is
	removed.	_	
	The Network Routing Nu		
			number in national (significant)
	number format" or "Network routing number in network specific number format"		
	• Numbering plan India E.164 [i.1])	cator: ISDN (Telephony)	numbering plan (Recommendation
	<ul> <li>Address Signal: deriv</li> </ul>	ved from the rn parameter	r if the Number Portability Routing
	Number contains an E	164 number the country	code is removed else the address digits
	applied unchanged		
ISUP Parameter values	IAM:		
		letwork Routing Number	
SIP Parameter values	INVITE:		
			r Portability Routing Number>; npdi
Comments	The URI parameters can b		
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	100 Trying	<b>←</b>	
		Apply post test ro	outine

TP number	TP 101 038	Reference	7.2.3.1.2A.2	
TSS reference		SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria		PICS 6.2.2/1 OR PICS 6.2.2/2 OR PICS 6.2.2/3 AND PICS 6.2.2/4		
Test Purpose name	Sending of Number Portability	Forward Information		
Test Purpose	request line, an IAM is sent. T parameter set according the fo  • If the Number Portability I	ne IAM contains the Numb illowing roles: Database Dip Indicator is p er, set to "number portabilit	ning the <b>npdi</b> parameters in the per Portability Forward Information present, and there is no Number ty query done for called number,	
ISUP Parameter values	IAM:  Number Portability Forward	1 Information		
SIP Parameter values	INVITE:  Request URI: sip: <called< th=""><th></th><th></th></called<>			
Comments		•		
Message flows	Mg INVITE → 100 Trying ←		ISUP → IAM ne	

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 6.2.2/1 OR PICS 6.2.2/2	PICS 6.2.2/1 OR PICS 6.2.2/2 OR PICS 6.2.2/3 AND PICS 6.2.2/4		
Test Purpose name	Sending of Number Portability	Sending of Number Portability Forward Information		
Test Purpose	Ensure that on receipt of an initial INVITE request containing the <b>rn</b> and <b>npdi</b> parameters in the request line, an IAM is sent. The IAM contains the Number Portability Forward Information parameter set according the following roles:  • If the Number Portability Database Dip Indicator is present, and a Number Portability Routing Number is present, set to "number portability query done for called number, ported called subscriber"			
ISUP Parameter values	IAM:			
	Number Portability Forward	d Information		
SIP Parameter values	INVITE: Request URI: sip: <called i<="" th=""><th>number&gt;; rn=<number portabili<="" th=""><th>ty Routing Number&gt;; npdi</th></number></th></called>	number>; rn= <number portabili<="" th=""><th>ty Routing Number&gt;; npdi</th></number>	ty Routing Number>; npdi	
Comments				
Message flows	Mg INVITE → 100 Trying ←	<del>-</del>	ISUP IAM	
		Apply post test routine		

TP number	TP_101_040	Reference	7.2.3.1.2A.2	
TSS reference	SIP-ISUP/Basic call/Sending	of_IAM/		
Selection criteria	PICS 6.2.2/1 OR PICS 6.2.2/2	PICS 6.2.2/1 OR PICS 6.2.2/2 OR PICS 6.2.2/3 AND PICS 6.2.2/4		
Test Purpose name	Sending of Number Portability	Forward Information		
Test Purpose	Ensure that on receipt of an initial INVITE request containing the <b>rn</b> parameters in the request line, an IAM is sent. The IAM contains the Number Portability Forward Information parameter set according the following roles:  If there is no Number Portability Database Dip Indicator, set to "number portability query not done for called number"			
ISUP Parameter values	IAM: Number Portability Forwa	rd Information		
SIP Parameter values	INVITE:	number>; rn= <number portabil<="" th=""><th>ity Routing Number&gt;</th></number>	ity Routing Number>	
Comments			-	
Message flows	Mg	MGCF	ISUP	
		<b>→</b>	IAM	
	100 Trying	<b>+</b>		
		Apply post test routine		

TP number	TP 101 041	Reference	7.2.3.1.2B.1	
			1.2.3.1.2D.1	
TSS reference		SIP-ISUP/Basic call/Sending_of_IAM/		
Selection criteria	PICS 6.2.2/5 AND PI	PICS 6.2.2/5 AND PICS 6.2.2/6 AND PICS 6.2.2/8		
Test Purpose name	Request URI cic para	meter is mapped into IAM TN	IS parameter	
Test Purpose	<ul> <li>Ensure that on receipt of an initial INVITE request containing the cic parameter in the request line, an IAM is sent. The Transit network selection parameter is set to:</li> <li>Type of network identification: CCITT-standardized identification or national network identification</li> <li>Network identification plan: according value of Type of network identification</li> <li>Network identification: digits derived from the carrier identification code value of the</li> </ul>			
	cic parameter	•		
ISUP Parameter values	IAM:	IAM:		
	Transit network se	Transit network selection		
SIP Parameter values	INVITE:			
	Request URI: sip:	Request URI: sip: <called number="">; cic=&lt; Carrier identification code &gt;</called>		
Comments				
Message flows	Mg	MGCF	ISUP	
_	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
	Apply post test routine			

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

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

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

# 6.1.1.2 Sending of COT

TP number	TP_102_001	Reference	7.2.3.1.3
TSS reference	SIP-ISUP/Basic call/	Sending_of_COT/	
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4		
Test Purpose name	Sending of ISUP COT		
Test Purpose	If the IAM has already been sent, the Continuity message shall be sent indicating "continuity check successful", when all of the following conditions have been met:		
	- the requested preconditions (if any) in the IMS network have been met		
	- a possible outstanding continuity check procedure is successfully performed on the		
	outgoing circuit		
ISUP Parameter values	IAM: Nature of connection indicator = "Continuity check performed on a previous circuit" or "Continuity check required on this circuit"		
		ator: Continuity check successful	
SIP Parameter values		precondition	
		r:qos local none	
		r:qos remote none	
		: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=cur	:qos remote none :qos mandatory local sendrecv	
		::qos mandatory remote sendrecv	
		f:qos remote sendrecv	
	u=0011	n.qos remote senareev	
	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		
	a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv		
	a=des	:qos mandatory remote sendrecv	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	100 Trying	<del>(</del>	
	183 Session Progres		
	PRACK	<b>→</b>	
	200 OK (PRACK)	<del>(</del>	
	UPDATE	<b>→</b>	→ COT
	200 OK (UPDATE)	<b>←</b>	
	Apply post test routine		

PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4	TP number	TP_102_002   Reference   7.3.3.1.3					
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  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 mandatory local sendrecv a=des.qos mandatory local sendrecv a=curr.qos remote sendrecv  IPDATE: SDP a=curr.qos local none a=des.qos mandatory local sendrecv a=curr.qos remote sendrecv a=curr.qos remote 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=des.qos local mandatory local sendrecv a=des.qos local mandato	TSS reference	SIP-ISUP/Basic call/Sending_of_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   IAM: Nature of connection indicator = "COT to be expected"	Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4					
"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  IAMI: Nature of connection indicator = "COT to be expected"  COT continuity indicator: Continuity check successful;  INVITE: Require: precondition  SDP a=currigos local none a=durrigos remote none a=durrigos mandatory local sendrecv a=des:qos mandatory local sendrecv a=currigos remote sendrecv  183: Require: 100rel SDP a=currigos local none a=currigos remote sendrecv a=des:qos mandatory local sendrecv a=currigos remote sendrecv  UPDATE: SDP a=currigos local sendrecv a=currigos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv a=durrigos 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 a=des:qos mandatory remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory local sendrecv 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 mandat	Test Purpose name	Sending of BICC COT					
AMI: Nature of connection indicator = "COT to be expected" COT continuity indicator: Continuity check successful;	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					
COT continuity indicator: Continuity check successful;  BIP Parameter values  INVITE: Require: precondition  SDP a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv  183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote none a=des:qos mandatory remote sendrecv a=curr:qos local sendrecv a=curr:qos local sendrecv a=curr: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 local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory rem	ISUP Parameter values						
INVITE: Require: precondition SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv  183: Require: 100rel SDP a=curr:qos local none a=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=des:qos mandatory remote sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:q							
SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv  UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv  200 OK UPDATE SDP a=curr:qos local sendrecv a=des:qos mandatory remote sendrecv a=curr:qos 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 a=des:qos mandatory remote sendrecv because flows  Mg MGCF ISUP INVITE	SIP Parameter values	INVITE: Require: precondition  SDP					
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 a=des:qos mandatory remote sendrecv    Mg   MGCF   ISUP		SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv					
SDP		SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv					
Mg         MGCF         ISUP           INVITE         →         →         IAM           100 Trying         ←         +         183 Session Progress         ←           PRACK         →         200 OK (PRACK)         ←         +           UPDATE         →         COT         200 OK (UPDATE)         ←		SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv					
INVITE → → IAM  100 Trying ←  183 Session Progress ←  PRACK →  200 OK (PRACK) ←  UPDATE → COT  200 OK (UPDATE) ←	Comments						
200 OK (UPDATE) ←	Message flows	INVITE   100 Trying   183 Session Progress   PRACK   200 OK (PRACK)					
· · · · · · · · · · · · · · · · · · ·							
Apply poor tool routing		Apply post test routine					

## 6.1.1.3 Sending of SAM

TP number	TP_103_001	Reference	7.2.3.1.3A.2			
TSS reference	SIP-ISUP/Basic call/Sending	of SAM/				
Selection criteria	PICS 6.2.3/1	<u> </u>				
Test Purpose name	Receipt of INFO request, sen	ding 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		<u> </u>				
SIP Parameter values	INVITE: Supported: 100rel 183 Session Progress: Supporting INFO: Content-Type: application SubsequentDigit: <additio< th=""><th></th><th>sl</th></additio<>		sl			
Comments						
Message flows	100 Trying	MGCF → <del>-</del>	ISUP IAM			
		<b>→</b>	SAM			
	_	<b>&gt;</b>	SAM			
		Apply post test routine				

TP number	TP_103_002	Reference	7.2.3	.1.3A.3					
TSS reference	SIP-ISUP/Basic call/Sending_	of_SAM/							
Selection criteria	PICS 6.2.3/2								
Test Purpose name	Receipt of multiple INVITE req	Receipt of multiple INVITE request, sending of SAM							
Test Purpose	After the ISUP IAM message h			dditional digits. The					
	additional digits are received in	n multiple SIP INVITE requests	3	-					
ISUP Parameter values									
SIP Parameter values									
Comments									
Message flows	Mg	MGCF		ISUP					
	INVITE(1)	<b>→</b>	<b>→</b>	IAM					
	CASE A								
	INVITE(2)	<b>→</b>	<b>→</b>	SAM					
	484 Address Incomplete(1)	<b>←</b>							
	ACK	<b>→</b>							
	INVITE(3)	<b>→</b>	<b>→</b>	SAM					
	484 Address Incomplete(2)	<b>←</b>							
	ACK	<b>→</b>							
	100 B: (0)		_	4.014					
	180 Ringing(3)	<b>←</b>	<b>←</b>	ACM					
	CASE B								
	484 Address Incomplete(1)	<b>←</b>							
	ACK	<b>→</b>							
	Hore	•							
	INVITE(2)	<b>→</b>	<b>→</b>	SAM					
	484 Address Incomplete(2)	<del>-</del>	-	C/ ((V)					
	ACK	- <b>-</b>							
		-							
	INVITE(3)	<b>→</b>	<b>→</b>	SAM					
	(-)								
	180 Ringing(3)	<b>←</b>	<b>←</b>	ACM					
		Apply post test routine							

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

## 6.1.1.4 Sending of 18x provisional responses

TP number	TP_104_001	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	g 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	ty status indicato	r = subscriber free	
SIP Parameter values				
Comments				
Message flows	Mg		MGCF	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM
	100 Trying	<b>←</b>		
	180 Ringing	<b>←</b>	<b>←</b>	ACM
		Apply	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 C	PG was received				
Test Purpose	The SUT shall send the SIP 18 - CPG with Event indicator se		ollowing messages:			
ISUP Parameter values	<b>ACM:</b> BCI Called party status <b>CPG:</b> Event indicator = ALER					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → 100 Trying ←	<b>→</b>	IAM			
	, ,	<b>←</b>	ACM(no indication)			
	180 Ringing ←	← Apply post test routine	CPG(ALERTING)			

TP number	TP_104_003	Refe	rence		7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Se	ending_of_18x	/				
Selection criteria	PICS 6.2.1/9						
Test Purpose name	ACM received, P-Earl-I	ACM received, P-Earl-Media header present in 180					
Test Purpose	Ensure that on receipt P-Early-Media header in						
ISUP Parameter values	IAM: 3,1 kHz audio						
	ACM: BCI Called party	y status indica	tor = free				
SIP Parameter values	INVITE:	INVITE:					
	Supported: 100rel						
	P-Early-Media: sup	ported					
	180 ringing						
	P-Early-Media: < au	uthorization of	early media>				
Comments							
Message flows	Mg		MGCF		ISUP		
	INVITE	<b>→</b>		<b>→</b>	IAM		
	180 Ringing ← ← ACM(free)						
	PRACK →						
	200 OK (PRACK)	<b>←</b>					
		Ap	ply post test rou	ıtine			

TP number	TP_104_004	Refer	ence	7.2.3.1.4	4
TSS reference	SIP-ISUP/Basic call/S	ending_of_18x	1		
Selection criteria	PICS 6.2.1/10				
Test Purpose name	Provide media in a Ca	III-Info header fi	eld, or an Alert-In	fo header field i	n a 180
Test Purpose	Ensure that the SUT is the PSTN in a Call-Inf				
ISUP Parameter values	ACM: BCI Called par	ty status indica	tor = subscriber fr	ee	
SIP Parameter values	180: Call-Info: <media r<br="">Alert-Info: <media< th=""><th>,</th><th></th><th></th><th></th></media<></media>	,			
Comments					
Message flows	Mg INVITE 100 Trying 180 Ringing	→ ← ←	MGCF	→ IAM ← ACM	ISUP

TP number	TP_104_005	Reference	7.2.3.1.4A
TSS reference	SIP-ISUP/Basic call/Send	ling_of_18x/	
Selection criteria	PICS 6.2.1/10		
Test Purpose name	Provide media in a Call-Ir	nfo header field, or an Ale	rt-Info header field in a 183
Test Purpose			ad of the in-band media received from o header field present in a 183 Session
ISUP Parameter values	ACM: BCI Called party s	tatus indicator = no indica	ation
SIP Parameter values	183: Call-Info: <media reso<br="">Alert-Info: <media res<="" 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_006	Reference		7.2.3.1.4		
TSS reference	SIP-ISUP/Basic call/Se	nding_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Progress In	dicator received in	a ACM/CPG			
Test Purpose	<ul> <li>Mapping of Progress Indicator received in a ACM/CPG</li> <li>Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The 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.</li> <li>Progress Indicator received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value</li> <li>Progress Indicator received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the ProgressIndicator value PI_value</li> </ul>					
ISUP Parameter values	CASE B BO	Ci Called party statu Ci Called party statu BCi 'inband info ava Progress Indicator I	us = no indication ilable'	ee		
SIP Parameter values	180: xml version="1.0" end PSTN ProgressIndicator ProgressOctet3 CodingStand Location</p ProgressOctet4 ProgressDes	dard>00<				
Comments						
Message flows	Mg INVITE CASE A	<b>→</b>	IGCF →	ISUP IAM		
	180 Ringing  CASE B	<b>←</b>	<b>←</b>	ACM		
	183 Session Progress 180 Ringing	← ← Apply po	← ← est test routine	ACM CPG		

TSS reference	SIP-ISUP/Basic call/Se	nding of 10v/					
		enaing_oi_ rox/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of High layer of						
Test Purpose	indicator ALERTING, a ACM ATP parameter is 180 as indicated in tabl	Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM 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					
	HLC_value  High layer compati	bility received in an CF	PG Event indica	ighLayerCompatibility value tor ALERTING 180 Ringing is ompatibility value HLC_value			
ISUP Parameter values	ACM: CASE A BO	Ci Called party status = Ci Called party status = 3Ci 'inband info availat	= subscriber free = no indication ble'				
SIP Parameter values	180: xml version="1.0" en<br PSTN		, .=				
	HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<						
Comments							
Message flows	Mg INVITE	MG€	CF →	ISUP IAM			
	CASE A 180 Ringing	<b>←</b>	<b>←</b>	ACM			
	CASE B 183 Session Progress 180 Ringing	← ← Apply post	← ← test routine	ACM CPG			

TP number	TP_104_008	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Ser	nding_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Low layer co					
Test Purpose	indicator ALERTING, a ACM ATP parameter is 180 as indicated in table	180 Ringing is sent. The mapped into the LowLa e 6.1.1.4-4.	tatus subscriber free or a CPG even e Low layer compatibility IE containe yerCompatibility PSTN XML elemen I called party status subscriber free	d in the t in the		
	Ringing is sent in th ITC_value  • Low layer compatib	ne PSTN XML element of illity received in an CPG	contains the LowLayerCompatibility value indicator ALERTING 180 Ring LowLayerCompatibility value ITC_	value ging is		
ISUP Parameter values	ACM: CASE A BC	Ci Called party status = s Ci Called party status = s	subscriber free			
	-	Ci 'inband info available				
	CPG: ATP contains a L	ow layer compatibility I	E			
SIP Parameter values	180: xml version="1.0" end<br PSTN	coding="utf-8"?>				
	LowLayerCompatibil	lity>				
	LLOctet3>	•				
	CodingStand	ard>00<				
	InformationTr	ansferCapability>ITC_v	alue<			
	LLOctet4>					
	TransferMode>00<					
	InformationTr	ansferRate>10000<				
Comments	8.6	MOOF	IOUR			
Message flows	Mg INVITE	MGCF →	: ISUP → IAM			
	IIIVIIE	7	<b>7</b> IAW			
	CASE A					
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	3 3					
	CASE B					
	183 Session Progress	<b>←</b>	← ACM			
	180 Ringing	<b>←</b>	← CPG			
		Apply post te	st routine			

TP number	TP_104_009	Reference	е	7.2.3.1.4	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Bearer Capability received in a ACM/CPG				
Test Purpose	<ul> <li>Ensure that on receipt of an ACM called party status subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent. The 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.</li> <li>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</li> <li>Bearer Capability received in an CPG Event indicator ALERTING 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value</li> </ul>				
ISUP Parameter values	CASE B BC		itus = subscriber fre itus = no indication railable'	ee	
	CPG: ATP contains a B	Bearer Capability	IE		
SIP Parameter values	180: <pre><?xml version="1.0" encoding="utf-8"?> PSTN  BearerCapability  BCoctet3  CodingStandard&gt;00&lt; InformationTransferCapability&gt;ITC_value&lt; BCoctet4  TransferMode&gt;00&lt; InformationTransferRate&gt;10000&lt; BCoctet5&gt; Layer1Identification&gt;01&lt; UserInfoLayer1Protocol&gt;00011</pre>				
Comments					
Message flows	Mg INVITE CASE A	<b>→</b>	MGCF →	IAM	ISUP
	180 Ringing  CASE C	<b>←</b>	+	ACM	
	183 Session Progress 180 Ringing	← ← Apply p	eost 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 6.2.1/5					
Test Purpose name	Mapping of Backward call indic	cator into PSTN XML Progress	Indicator element value 1 sent			
l toot i ai pood iiaiiio	in 180					
Test Purpose	Ensure that on receipt of an AC	CM and the Backward call indic	cator ISDN User Part indicator			
	is set to ISDN User Part not us	ed all the way, a 180 Ringing i	s sent. A PSTN XML			
	ProgressIndicator element is p					
	"further progress information m		`			
ISUP Parameter values	ACM: BCI ISDN User Part ind		sed all the way			
SIP Parameter values	180 Ringing	·				
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE ->	<b>→</b>	IAM			
	100 Trying ←					
	180 Ringing ←	<b>+</b>	ACM			
	Apply post test routine					

TP number	TP_104_011		Reference		7.2.3.1.4
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name		ackward call indic	ator into PSTN XML	Progress	sIndicator element value 2 sent
	in 180				
Test Purpose		•			cator ISDN User Part indicator
					ndicator = Terminating access
		~ ~		•	cator element is present the
	value is set to	No 2 (Destination	n address is non-ISE	ON)	
ISUP Parameter values	ACM: BCI	ISDN User Part i	ndicator = ISDN Use	er Part us	ed all the way
		ISDN access ind	icator = Terminating	access n	ion-ISDN
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	 Progress Octot 4				
	ProgressOctet4 ProgressDescription> <b>0000010</b> <				
Comments	FIC	gresspescription	>0000010<		
			МООБ		IOUD
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying ←				
	180 Ringing	+		<b>←</b>	ACM
			Apply post test r	outine	

TD number	TD 404 040	Deference	70044			
TP number	TP_104_012	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sendir	g_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Backward call in 180	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 7 sent in 180				
Test Purpose	Ensure that on receipt of ar	ACM and the Backward call in	ndicator ISDN User Part indicator			
	is set to ISDN User Part us	ed all the way and ISDN acces	s indicator = Terminating access			
	ISDN, a 180 Ringing is sen	. A PSTN XML ProgressIndica	ator element is present the value			
	is set to No 7	_	•			
ISUP Parameter values	ACM: BCI ISDN User P	art indicator = ISDN User Part	used all the way			
	ISDN access	indicator = Terminating acces	s ISDN			
SIP Parameter values	180 Ringing					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescrip	ProgressDescription>0000111<				
Comments						
Message flows	Mg MGCF ISUP					
	INVITE → IAM					
	100 Trying	<b>←</b>				
	180 Ringing ← ← ACM					
	Apply post test routine					
	- The A become					

TP number	TP 104 013	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending of 18x/					
	5=	JI_I OX/				
Selection criteria	PICS 6.2.1/5					
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					
	1.55,9					
	180 Ringing ← ← ACM					
	Apply post test routine					

SIP-ISUP/Basic call/Sending_of_18x/   PICS 6.2.1/5     Prose name   The SUT performs Fall back     Prose   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
rpose name The SUT performs Fall back  rpose 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
rpose  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
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
arameter values
INVITE: PSTN XML MIME body <pre></pre> <pre></pre> <pre></pre> <pre><pre><pre></pre></pre></pre>
or InformationTransferCapability>10000<
Fallback is performed in the SUT
le flows Mg MGCF ISUP INVITE → IAM 100 Trying ←
180 Ringing ← ← ACM
Apply post test routine

TP number	TP_104_015	Reference	7.2.3.1.4			
TSS reference	SIP-ISUP/Basic call/Sending_c	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Receipt of TMU speech, no BC	present in ATP				
Test Purpose	Ensure that on receipt of a Tra	nsmission medium used param	neter set to speech in the			
	ACM, a 180 Ringing is sent and	d a PSTN XML BearerCapabili	ty element is present the			
	InformationTransferCapability i	s set to Speech				
ISUP Parameter values	ACM: Transmission medium u	sed = speech				
SIP Parameter values	180 Ringing	·				
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00	CodingStandard>00<				
	InformationTransferCapability>00000<					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	100 Trying ←					
	180 Ringing ←	<b>←</b>	ACM			
		Apply post test routine				

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

TP number	TP_104_017	Reference	7.2.3.1.4.1		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
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 Transmission medium used parameter and in the ATP a Bearer				
	Capability IE in the ACM, a 180				
	is present the InformationTrans				
ISUP Parameter values	ACM: Transmission medium u	sed, ATP Bearer Capability IE			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding=</th <th>:"utf-8"?&gt;</th> <th></th>	:"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00	<			
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ←	<b>←</b>	ACM		
		Apply post test routine			

TP number	TP_104_018	Reference	7.2.3.1.4.1			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapa	bility 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 18	3 Session Progress is sent and	d a PSTN XML			
	BearerCapability element is pr	esent the InformationTransfer	Capability is set as indicated in			
	table 6.1.1.4-1					
ISUP Parameter values	ACM: Transmission medium	used, ATP Bearer Capability I				
	BCi Called party status	= no indication				
SIP Parameter values	183 Session Progress					
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → IAM					
	100 Trying €	-				
	183 Session Progress €	· <b>←</b>	ACM			
		Apply post test routine				

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

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

TP number	TP_104_019	Reference	7.2.3.1.4A			
TSS reference	SIP-ISUP/Basic call/S	Sending_of_18x/				
Selection criteria	NOT PICS 6.2.1/5 AN	ND NOT PICS 6.2.1/9				
Test Purpose name	ACM no indication red	ceived, no SIP response is se	ent			
Test Purpose		Ensure that on receipt of an early ACM no SIP response is sent if the INVITE does not contain a P-Early-Media header				
ISUP Parameter values	IAM: 3,1 kHz audio ACM: BCI Called par	IAM: 3,1 kHz audio ACM: BCI Called party status indicator = no indication				
SIP Parameter values		•				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
		Apply post test	← ACM(no indication) routine			

TP number	TP_104_020	Reference	7.2.3.1.4A		
TSS reference	SIP-ISUP/Basic call/Sendi	ng_of_18x/			
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9			
Test Purpose name	ACM received, P-Earl-Med	ACM received, P-Earl-Media header present in 183			
Test Purpose	Ensure that on receipt of a	n early ACM 183 Session P	rogress is sent. In the 183 session		
	Progress a P-Early-Media	header is present indicating	authorization of early media		
ISUP Parameter values	IAM: 3,1 kHz audio	·	•		
	ACM: BCI Called party sta	atus indicator = no indication	r		
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: support	P-Éarly-Media: supported			
	183 Session Progress				
	P-Early-Media: < authorization of early media>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	183 Session Progress	<b>←</b>	← ACM(no indication)		
	PRACK	<b>→</b>			
	200 OK (PRACK)	<b>←</b>			
		Apply post test rout	ine		

A.1			
A. 1			
set to In-band			
t. In the 183			
of early media			
Supported: 100rel P-Early-Media: supported			
183 Session Progress			
P-Early-Media: < authorization of early media>			
ID			
JP			
183 Session Progress ← ← CPG			
200 OK (PRACK)   Apply post test routine			
1			

TP number	TP_104_022	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.1
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	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	ACM: BCi ISDN access indicator = Terminating access ISDN BCi Called party status indicator = no indication oBCI In-band information indicator in-band information or an appropriate pattern is now available		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN     ProgressIndicator      ProgressOctet4     ProgressDescriptior</th <th></th> <th></th>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	· •	IAM
	183 Session Progress		ACM
	Too Coosisii Togrooo	Apply post test routine	7.0

TP number	TP 104 023	Reference	7.2.3.1.4A	
	1		table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indicin a 183	cator into PSTN XML Progress	Indicator element value 1 sent	
Test Purpose	Ensure that on receipt of an ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 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 inc	licator = ISDN User Part not us	sed all the way	
		indicator = no indication	•	
SIP Parameter values	183 Session Progress			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	n> <b>0000001</b> <		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	· -	IAM	
	183 Session Progress ←	· <b>←</b>	ACM	
		Apply post test routine		

TP number	TP_104_024	Reference	7.2.3.1.4A	
			table 7.2.3.1.4A.1	
TSS reference	SIP-ISUP/Basic call/Sending_o	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indicin a 183	cator into PSTN XML Progress	Indicator element value 2 sent	
Test Purpose	Ensure that on receipt of 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 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		dicator = ISDN User Part used ator = Terminating access non- indicator = no indication		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN     ProgressIndicator      ProgressOctet4     ProgressDescriptior</th <th></th> <th></th>			
Comments				
Message flows	Mg INVITE → 100 Trying ← 183 Session Progress ←	•	ISUP IAM ACM	

TP number	TP_104_025	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.1
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
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 ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7		
ISUP Parameter values	ACM: BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access ISDN BCi Called party status indicator = no indication		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg INVITE → 100 Trying ← 183 Session Progress ←	MGCF  →  Apply post test routine	ISUP IAM ACM

TP number	TP_104_026	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of optional Backward value 8 sent in a 183	call indicator into PSTN XML F	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 = Progress oBCI In-band information indicator in-band information or an appropriate pattern is now available		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg INVITE → 183 Session Progress ←	<b>←</b>	ISUP IAM ACM CPG

TP number	TP_104_027	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indicin a 183	ator 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 = Progress  BCI ISDN User Part indicator = ISDN User Part not used all the way		
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →  183 Session Progress ←	<del>+</del>	IAM ACM CPG
		Apply post test routine	

TP number	TP_104_028	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indicin a 183	ator into PSTN XML Progress	Indicator element value 2 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 non-ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)		
ISUP Parameter values	CPG: Event indicator = Progress  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 ←	<b>←</b>	ISUP IAM ACM CPG

TP number	TP_104_029	Reference	7.2.3.1.4A
			table 7.2.3.1.4A.2
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
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 ←	<del>-</del>	ISUP IAM ACM CPG

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_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indicin a 183	ator 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-ban BCI ISDN User Part ind	d information or an appropriaticator = ISDN User Part not us	•
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 →	MGCF →	ISUP IAM
	183 Session Progress ←	← ← Apply post test routine	ACM CPG

TP number	TP 104 031	Reference	7.2.3.1.4A	
I r iiuiiibei	11 _104_031	Keierence	table 7.2.3.1.4A.2	
TCC reference	OLD TOLID/D i II/O ii	-5.40/	table 7.2.3.1.4A.2	
TSS reference	SIP-ISUP/Basic call/Sending_o	DT_18X/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name		cator into PSTN XML Progress	Indicator element value 2 sent	
	in a 183			
Test Purpose	•		cator ISDN User Part indicator	
	is set to ISDN User Part used			
	non-ISDN, a 183 Session Prog	gress is sent. A PSTN XML Pro	ogressIndicator element is	
	present the value is set to No 2	2 (Destination address is non-I	SDN)	
ISUP Parameter values	CPG: Event indicator = in-bar	nd information or an appropriat	e pattern is now available	
	BCI ISDN User Part inc	licator = ISDN User Part used	all the wav	
		ator = Terminating access non-		
SIP Parameter values	183 Session Progress			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	1 Togreson Medical			
	ProgressOctet4			
	ProgressDescription	>000010		
Comments	1 TogressDescription	12000010		
	Ma	MGCF	ISUP	
Message flows	Mg			
	INVITE -	=	IAM	
		<b>←</b>	ACM	
	183 Session Progress ←	· <b>←</b>	CPG	
		Apply post test routine		

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	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Backward call indicator into PSTN XML ProgressIndicator element value 7 sent in a 183					
Test Purpose	Ensure that on receipt of an CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7					
ISUP Parameter values	CPG: Event indicator = in-band information or an appropriate pattern is now available BCI ISDN User Part indicator = ISDN User Part used all the way BCi ISDN access indicator = Terminating access ISDN					
SIP Parameter values	183 Session Progress xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<					
Comments						
Message flows	Mg INVITE → 183 Session Progress ←	<b>←</b>	ISUP IAM ACM CPG			

TP number	TP_104_033	Reference	7.2.3.1.4				
			table 7a.0f				
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of Progress Indicator received in a ACM/CPG into 183						
Test Purpose	Ensure that on receipt of an ACM called party status no indication or CPG event indicator						
		ogress is sent. The Progress Ir					
		ACM ATP parameter is mapped into the PSTN XML element in the 183 Session Progress					
	as indicated in table 6.1.1.4-2.						
			is no indication, a 183 Session				
		STN XML element contains the	ProgressIndicator value				
	PI_value		1 EDTING 400 0 .				
		ed in an CPG Event indicator A					
		STN XML element contains the	Progressingicator value				
ISUP Parameter values	PI_value  ACM: CASE A BCi Calle	ad party status – subscribor fro	0				
130F Farameter values							
		CASE B BCi Called party status = no indication oBCi 'inband info available'					
	CPG: ATP contains a Progre						
SIP Parameter values	183 Session Progress:						
	xml version="1.0" encoding="utf-8"?						
	PSTN						
	ProgressIndicator						
	ProgressOctet3						
	CodingStandard>00<						
	Location>yyyy<						
	ProgressOctet4						
	ProgressDescriptio	n> <b>PI_value</b> <					
Comments Manager flavo	Ma	MGCF	ISUP				
Message flows	Mg INVITE		IAM				
	IIIVII E	7	IAW				
	CASE A						
	183 Session Progress	<u>-</u>	ACM				
	100 dession riogress	•	AOW				
	CASE B						
	0.102 5	<b>←</b>	ACM				
	183 Session Progress	<u>.</u>	CPG				
	Too coolon rogrood	Apply post test routine	S. 5				
		יישריי ויסטו ויסטו ויסטוויס					

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

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'000001'
PI_VA_2	Destination address is non-ISDN	'000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

Ensure that on receipt of an AC	bility received in a ACM/CPG i	table 7a.0f			
PICS 6.2.1/5 Mapping of High layer compatible Ensure that on receipt of an AC	bility received in a ACM/CPG i	nto 192			
Mapping of High layer compatible Ensure that on receipt of an AC		nto 192			
Ensure that on receipt of an AC		nto 192			
		Mapping of High layer compatibility received in a ACM/CPG into 183			
Ensure that on receipt of an ACM called party status 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 no indication, a 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 Progress is sent in the PSTN XML element contains the HighLayerCompatibility value					
ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available'					
183 Session Progress: xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4					
Mg INVITE →  CASE A 183 Session Progress ←  CASE B  183 Session Progress ←	<b>+</b>	ISUP IAM ACM ACM CPG			
	ALERTING, a 183 Session Prothe ACM ATP parameter is mathe 183 Session Progress as in  High layer compatibility recession Progress is sent in HighLayerCompatibility va  High layer compatibility receprogress is sent in the PS HLC_value  ACM: CASE A BCi Calle CASE B BCi Calle OBCi 'inbace CASE A 183 Session Progress  CASE A 183 Session Progress	ALERTING, a 183 Session Progress is sent. The High layer of the ACM ATP parameter is mapped into the HighLayerComp the 183 Session Progress as indicated in table 6.1.1.4-3.  High layer compatibility received in an ACM called party Session Progress is sent in the PSTN XML element conton HighLayerCompatibility value HLC_value  High layer compatibility received in an CPG Event indical Progress is sent in the PSTN XML element contains the HLC_value  ACM: CASE A BCi Called party status = subscriber free CASE B BCi Called party status = no indication oBCi 'inband info available'  CPG: ATP contains a High layer compatibility IE  183 Session Progress:			

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

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or interworking units	'0110011'
HLC_VA_7	Telex service	'0110101'
HLC_VA_8	FTAM application	'1000010'
HLC VA 9	Videotelephony	'1100000'

TP number	TP_104_035	Reference	7.2.3.1.4		
			table 7a.0f		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Low layer compatibility received in a ACM/CPG into 183				
Test Purpose		CM called party status no indica			
		ogress is sent. The Low layer c			
		apped into the LowLayerCompa	tibility PSTN XML element in		
	the 183 Session Progress as i				
		ceived in an ACM called party s			
		in 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	e		
		ed party status = no indication			
		and info available'			
	CPG: ATP contains a Low lay	er compatibility IE			
SIP Parameter values	183 Session Progress:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN Lavid aver Commodibility				
	LowLayerCompatibility> LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
	LLOctet4>				
	TransferMode>00<				
	InformationTransfer	Rate>10000>			
Comments	mormationmansier	14102 10000			
Message flows	Mg	MGCF	ISUP		
	INVITE -		IAM		
	INVITE / IAIVI				
	CASE A				
	183 Session Progress   ◆	· ←	ACM		
	Too Cocolon Frogress	_	7.0		
	CASE B				
		<b>←</b>	ACM		
	183 Session Progress   €	•	CPG		
	Too Coolon Flogross	Apply post test routine	J. J		
<u> </u>	Apply post test routine				

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

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

TP number	TP_104_036	Reference	7.2.3.1.4 table 7a.0f			
TSS reference	SIP-ISUP/Basic call/Sending_	of 18v/	lable 7 a.01			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Bearer Capability received in a ACM/CPG					
Test Purpose		CM called party status no indic	ation 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					
		d in an CPG Event indicator AL STN XML element contains the				
ISUP Parameter values		ed party status = subscriber fre	e			
		ed party status = no indication				
		and info available'				
	CPG: ATP contains a Bearer					
SIP Parameter values	183 Session Progress:					
	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					
	BearerCapability					
	BCoctet3					
	CodingStandard>00					
		Capability>ITC_value<				
	BCoctet4					
	TransferMode>00<					
	InformationTransferRate>10000<					
	BCoctet5>					
	Layer1Identification>01<					
Comments	UserInfoLayer1Protocol>00011<					
Message flows	Mg MGCF ISUP					
	INVITE -3		IAM			
	CASE A					
		• •	A C N A			
	183 Session Progress	•	ACM			
	CASE B					
	0,102 5	<b>4</b>	ACM			
	183 Session Progress	- <del>`</del>	CPG			
	3					
Ĭ.	Apply post test routine					

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

ITC_value	BC Information transfer capability	XML InformationTransferCapability
ITC_VA_1	Speech	'00000'
ITC_VA_2	3,1 kHz audio	'10000'
ITC_VA_3	Unrestricted digital inf. W/tone/ann	'10001'
ITC_VA_4	Unrestricted digital information	'01000'

TP number	TP_104_037	Reference	7.2.3.1.4B			
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria						
Test Purpose name	ACM containing CDIV informat	ACM containing CDIV information, a 181 is sent				
Test Purpose	Ensure that on receipt of an ACM containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted', a 181 Call Is Being Forwarded is sent					
ISUP Parameter values	ACM: BCi Called party status = no indication Redirection number Call diversion information Generic notification = 'Call is diverted'					
SIP Parameter values	181 Call Is Being Forwarded					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE → IAM					
	100 Trying ←					
	181 Call Is Being Forwarded ← ACM					
		Apply post test routine				

TP number	TP 104 038	Reference	7.	2.3.1.4B	
TSS reference	SIP-ISUP/Basic call/Sending_	SIP-ISUP/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/9	PICS 6.2.1/9			
Test Purpose name	ACM containing CDIV information P-Early-Media present	ACM containing CDIV information and oBCi inband inf available, a 181 is sent a P-Early-Media present			
Test Purpose	Ensure that on receipt of a ACM containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to In-band info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media				
ISUP Parameter values	ACM: BCi Called party status = no indication Redirection number Call diversion information Generic notification = 'Call is diverted'				
SIP Parameter values	181 Call Is Being Forwarded P-Early-Media: <indicating authorization="" early="" media="" of=""></indicating>				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE → IAM				
	100 Trying ←				
	181 Call Is Being Forwarded				

TD	TD 404 040	D - f		0.0.1.15			
TP number	TP_104_040	Reference	e  /	.2.3.1.4B			
TSS reference	SIP-ISUP/Basic	SIP-ISUP/Basic call/Sending_of_18x/					
Selection criteria							
Test Purpose name	CPG containing	CPG containing CDIV information, a 181 is sent					
Test Purpose	Ensure that on r	eceipt of a CPG Event Ir	dicator set to Progress	containing a Redirection			
	number, Call div	ersion information and G	seneric notification set t	o 'Call is diverted', a 181			
	Call Is Being For	rwarded is sent					
ISUP Parameter values	CPG: Event Inc	licator set to Progress					
	Redirecti	Redirection number					
	Call diver	Call diversion information					
	Generic notification = 'Call is diverted'						
	oBCI In-band information indicator in-band information or an appropriate pattern						
	is now available						
SIP Parameter values	181 Call Is Being Forwarded						
Comments							
Message flows	Mg MGCF ISUP						
	INVITE						
	180/183						
	181 Call Is Being	181 Call Is Being Forwarded ← ← CPG					
	Apply post test routine						

TP number	TP_104_041	Reference	7.2.3.1.4B		
TSS reference	SIP-ISUP/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/9				
Test Purpose name	ACM containing CDIV informate P-Early-Media present	ion and oBCi inband inf availa	ıble, a 181 is sent a		
Test Purpose	Ensure that on receipt of a CPG Event Indicator set to Progress containing a Redirection number, Call diversion information and Generic notification set to 'Call is diverted' and an optional backward call indicator set to In-band info or an appropriate pattern is now available, a 181 Call Is Being Forwarded is sent, a P-Early-Media is present indicating authorization of early media				
ISUP Parameter values	CPG: Event Indicator set to P	rogress			
	Redirection number				
	Call diversion information				
	Generic notification = '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&gt;</th></indicat<>	ing authorization of early medi	ia>		
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
	180/183	<b>←</b>	← ACM		
	181 Call Is Being Forwarded	<b>É</b>	← CPG		
		Apply post test routine	- <del>-</del>		

## 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	Ensure that on receipt of an ANM the SUT sends a 200 OK INVITE				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	<b>→</b> IAM			
	100 Trying	<b>←</b>				
	180 Ringing	<b>←</b>	E ACM			
	200 OK (INVITE)	<b>←</b>	E ANM			
	ACK	<b>→</b>				
	Apply post test routine					

TP number	TP_105_002	Reference		7.2.3.1.5		
TSS reference	SIP-ISUP/Basic call/Se	ending_of_200_OK/		·		
Selection criteria						
Test Purpose name	A CON is received a 20	00 OK is sent				
Test Purpose	Ensure that on receipt	Ensure that on receipt of a CON the SUT sends a 200 OK INVITE				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	N	<b>IGCF</b>	ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	100 Trying	<b>←</b>				
	200 OK (INVITE)	<b>←</b>	<b>←</b>	CON		
	ACK `	<b>→</b>				
		Apply post test routine				

TP number	TP_105_003	Reference		7.2.3.1.5	
				table 7.2	.3.1.5.1
TSS reference	SIP-ISUP/Basic call/Ser	nding_of_200_OK/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Progress indicator received	ved in ANM/CON is mapp	ed into PS7	ΓN XML Pr	ogressIndicator
Test Purpose		f an ANM/CON and an A			
	to value PI_value a, 200 OK INVITE is sent. the PSTN XML ProgressIndicator value is set				
	as indicated in table 6.1.1.5-1				
ISUP Parameter values	ANM/CON: ATP conta	ains a Progress Indicator	IE value <b>PI</b> _	_value	
SIP Parameter values	200 OK INVITE:				
	xml version="1.0" end</th <th>oding="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	oding="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyy< th=""><th>y&gt;</th><th></th><th></th><th></th></yyy<>	y>			
	ProgressOctet4				
0	ProgressDesc	cription>PI_value<			
Comments	8.6	MOOF			IOLID
Message flows	Mg	MGCF		1004	ISUP
	INVITE	<b>→</b>	<b>→</b>	IAM	
	0405.4				
	CASE A		-	4.014	
	180 Ringing	<b>←</b>	+	ACM	
	000 014 (181) (175)		-	A	
	200 OK (INVITE)	<del>(</del>	+	ANM	
	ACK	<b>→</b>			
	CASE B				
	CASE B		,	001	
	200 OK (INVITE)	<b>←</b>	+	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'

table 7.2.3.1.5.1  TSS reference   SIP-ISUP/Basic call/Sending_of_200_OK/  Selection criteria   PICS 6.2.1/5  Test Purpose name   High layer compatibility received in ANM/CON is mapped into PSTN XML HighLayerCompatibility   Ensure that on receipt of an ANM/CON and an ATP containing a High layer compatibility   Eset to value HLC_value, a 200 OK INVITE is sent, the PSTN XML HighLayerCompatibility value is set as indicated in table 6.1.1.5-2  ISUP Parameter values   ANM/CON: ATP contains a High layer compatibility   IE value HLC_value    SIP Parameter values   ANM/CON: ATP contains a High layer compatibility   IE value HLC_value    200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility   HLOctet3   CodingStandard>00<   Interpretation>100<   PresentationMethod>01<   HLOctet4   HighLayerCharacteristics>HLC_value  Comments   Mg	TP number	TP_105_004	Reference		7.2.3.1.5	
Selection criteria       PICS 6.2.1/5         Test Purpose name       High layer compatibility received in ANM/CON is mapped into PSTN XML HighLayerCompatibility         Test Purpose       Ensure that on receipt of an ANM/CON and an ATP containing a High layer compatibility is set to value HLC_value, a 200 OK INVITE is sent. the PSTN XML HighLayerCompatibility value is set as indicated in table 6.1.1.5-2         ISUP Parameter values       ANM/CON: ATP contains a High layer compatibility IE value HLC_value         SIP Parameter values       200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN       HighLayerCompatibility         HLOctet3       CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value         Comments       Mg       MGCF       ISUP         Message flows       Mg       MGCF       ISUP         Message flows       Mg       MGCF       AMM         CASE A       180 Ringing       ACM         200 OK (INVITE)       ANM					table 7.2.3.1.5.1	
High layer compatibility received in ANM/CON is mapped into PSTN XML HighLayerCompatibility  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  SIP Parameter value  CodingStandard>00 <	TSS reference	SIP-ISUP/Basic call/Se	nding_of_200_OK/			
HighLayerCompatibility  Test Purpose  Ensure that on receipt of an ANM/CON and an ATP containing a High layer compatibility IE set to value HLC_value, a 200 OK INVITE is sent. the PSTN XML HighLayerCompatibility value is set as indicated in table 6.1.1.5-2  ISUP Parameter values  ANM/CON: ATP contains a High layer compatibility IE value HLC_value  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4  HighLayerCharacteristics>HLC_value<  Comments  Message flows  Mg MGCF ISUP  INVITE	Selection criteria	PICS 6.2.1/5				
Test Purpose  Ensure that on receipt of an ANM/CON and an ATP containing a High layer compatibility IE set to value HLC_value, a 200 OK INVITE is sent. the PSTN XML HighLayerCompatibility value is set as indicated in table 6.1.1.5-2  ISUP Parameter values  ANM/CON: ATP contains a High layer compatibility IE value HLC_value  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3  CodingStandard>00   CodingStandard>00 Interpretation>100   PresentationMethod>01 HLOctet4   HighLayerCharacteristics>HLC_value    Comments  Message flows  Mg MGCF ISUP  INVITE → IAM  CASE A  180 Ringing ← ACM  200 OK (INVITE) ← ANM	Test Purpose name			is mapped into	o PSTN XML	
set to value HLC_value, a 200 OK INVITE is sent. the PSTN XML HighLayerCompatibility value is set as indicated in table 6.1.1.5-2  ISUP Parameter values  ANM/CON: ATP contains a High layer compatibility IE value HLC_value  200 OK INVITE: <pre> </pre> <pre> 200 OK INVITE: </pre> <pre> 200 OK INVITE: <pre> 201 Or inversion="1.0" encoding="utf-8"?&gt; PSTN  HighLayerCompatibility  HLOctet3  CodingStandard&gt;00&lt; Interpretation&gt;100&lt; PresentationMethod&gt;01&lt; HLOctet4 HighLayerCharacteristics&gt;HLC_value</pre>  Comments  Message flows  Mg  MGCF ISUP INVITE  ACM  CASE A  180 Ringing  CASE A  180 Ringing  ANM  ANM  ANM  ANM  ANM  ANM  ANM  AN</pre>						
value is set as indicated in table 6.1.1.5-2  ISUP Parameter values  ANM/CON: ATP contains a High layer compatibility IE value HLC_value  200 OK INVITE: xml version="1.0" encoding="utf-8"? PSTN  HighLayerCompatibility  HLOctet3     CodingStandard>00<     Interpretation>100<     PresentationMethod>01<     HLOctet4     HighLayerCharacteristics>HLC_value<  Comments  Message flows  Mg MGCF ISUP  INVITE → IAM  CASE A  180 Ringing ← ACM  200 OK (INVITE) ← ANM	Test Purpose					
SUP Parameter values						
200 OK INVITE:						
<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>			tains a High layer comp	atibility IE valu	ue HLC_value	
PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  Mg MGCF ISUP INVITE  AMM  CASE A 180 Ringing  4 ACM 200 OK (INVITE)  FAMM	SIP Parameter values					
HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  Mg MGCF ISUP INVITE  CASE A 180 Ringing  COMMENTAL  HighLayerCharacteristics  HC Value  ISUP  HAM  CASE A  180 Ringing  CASE A  ANM			coding="utf-8"?>			
HLOctet3		· · · · · ·				
CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_value<  Comments  Message flows  Mg MGCF INVITE  IAM  CASE A 180 Ringing  200 OK (INVITE)  F ANM			oility			
Interpretation>100 <						
PresentationMethod>01 <						
HLOctet4						
HighLayerCharacteristics>HLC_value           Comments         Mg         MGCF         ISUP           INVITE         →         IAM           CASE A         +         +         ACM           200 OK (INVITE)         ←         ANM						
Comments         Mg         MGCF         ISUP           INVITE         →         IAM           CASE A         180 Ringing         ←         ←         ACM           200 OK (INVITE)         ←         ANM						
Message flows  Mg INVITE  → IAM  CASE A 180 Ringing  ← ← ACM  200 OK (INVITE)  ← ANM	Comments	TilgiiLayerCi	iaiaciensiics>iiLC_vai	ue<		
INVITE   INVITE  INVITE  IAM  CASE A  180 Ringing  CODE (INVITE)  ANM		Ma	MGC	F	ISUP	
CASE A 180 Ringing ← ← ACM  200 OK (INVITE) ← ANM	mossage news	_				
180 Ringing ← ← ACM 200 OK (INVITE) ← ← ANM			-	-	.,	
200 OK (INVITE) ← ANM		CASE A				
200 OK (INVITE) ← ANM		180 Ringing	<b>←</b>	<b>←</b>	ACM	
· · ·		1001				
· · ·		200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM	
		· · · · · · · · · · · · · · · · · · ·				
CASE B		CASE B				
200 OK (INVITE) ← ← CON		200 OK (INVITE)	<b>←</b>	<b>←</b>	CON	
ACK →						
Apply post test routine			Apply post t	est 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/Sending_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name		received in ANM/CON is n	napped into PSTN XML			
	LowLayerCompatibility					
Test Purpose			P containing a Low layer compatib			
		set to value ITC_value, a 200 OK INVITE is sent. the PSTN XML LowLayerCompatibility				
		value is set as indicated in table 6.1.1.5-3  ANM/CON: ATP contains a Low layer compatibility IE value ITC_value				
ISUP Parameter values		itains a Low layer compatib	ility IE value <b>ITC_value</b>			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>				
	PSTN					
	LowLayerCompatib	oility>				
	LLOctet3>					
	CodingStan					
		TransferCapability> <b>ITC_val</b>	ue<			
	LLOctet4>					
	TransferMode>00<					
	InformationTransferRate>10000< LLOctet5>					
	Layer1Identification>01 </th					
	UserInfoLayer1Protocol> <b>ITC_value</b> </th					
Comments			s absent, the entire 'LLOctet5' ele	ment is		
	When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is absent					
Message flows	Mg	MGCF	ISUP			
3	INVITE	<b>→</b>	→ IAM			
	CASE A					
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	1.55 1.11.19.119	<del>-</del>				
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM			
	ACK					
		-				
	CASE B					
	200 OK (INVITE)	<b>←</b>	← CON			
	ACK	<del>`</del>	2 0011			
	7.01	Apply post test	routine			
		Apply post test				

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

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

TP number	TP_105_006	Reference	7.2.3.1.5		
			table 7.2.3.1.5.1		
TSS reference	SIP-ISUP/Basic call/Sending	_of_200_OK/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Bearer Capability received in	ANM/CON is mapped into PST	N XML BearerCapability		
Test Purpose	Ensure that on receipt of an	ANM/CON and an ATP containing	ng 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 6.1.1.5-4				
ISUP Parameter values	ANM/CON: ATP contains a	a Bearer Capability IE value <b>ITC</b>	_value		
SIP Parameter values	200 OK INVITE:				
	xml version="1.0" encodin</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>				
		erCapability> <b>ITC_value</b> <			
	BCoctet4				
	TransferMode>00				
	InformationTransferRate>10000<				
	BCoctet5>				
	Layer1Identification>01< UserInfoLayer1Protocol>ITC_value<				
0	UserinfoLayer1Pr	otocoi>IIC_value<			
Comments	B4	МООГ	IOLID		
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	IAM		
	CASE A	_			
	180 Ringing	<b>~ ~</b>	ACM		
	(	<del>(</del>	ANM		
	ACK	→			
	CASE B	_			
	(	<del>-</del> <del>-</del>	CON		
	ACK	<b>→</b>			
		Apply post test routine			

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

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

TP number	TP_105_007	Reference	7.2.3.1.5		
			table 7.2.3.1.5.2		
TSS reference	SIP-ISUP/Basic call/Sending_o	of_200_OK/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Backward call indicator mappe				
Test Purpose	Ensure that on receipt of a AN				
			PSTN XML ProgressIndicator		
		d-to-end ISDN: further progres	ss information may be available		
	in-band)				
ISUP Parameter values		Part indicator = ISDN User Pa	rt not used all the way		
SIP Parameter values	200 OK INVITE	U . 4 . 2 U O			
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	Dragues Ostat 4				
	ProgressOctet4 ProgressDescription>0000001<				
Comments	1 TogressDescription				
Message flows	Mg	MGCF	ISUP		
moodago nono	INVITE		IAM		
		-			
	CASE A				
	180 Ringing ←	·	ACM		
		_	7.0		
	200 OK (INVITE) ←	·	ANM		
	ACK +				
	CASE B				
	200 OK (INVITE)	· <b>←</b>	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 6.2.1/5						
Test Purpose name	Backward call indicator mappe						
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						
	the PSTN XML ProgressIndica						
ISUP Parameter values	ANM/CON: BCi ISDN User F						
		licator = Terminating access no	on-ISDN				
SIP Parameter values	200 OK INVITE	" · ( 0   0					
	xml version="1.0" encoding=</th <th>="utt-8""?&gt;</th> <th></th>	="utt-8""?>					
	PSTN						
	ProgressIndicator						
	Progress Octot 4						
	ProgressOctet4 ProgressDescription>0000010<						
Comments	1 Tegreeo Decempator	12000010					
Message flows	Mg	MGCF	ISUP				
meed ge neme	INVITE →		IAM				
		-					
	CASE A						
	180 Ringing ←	<b>←</b>	ACM				
	l s s s s s s s s s s s s s s s s s s s						
	200 OK (INVITE) ←	<b>←</b>	ANM				
	ACK →						
	CASE B						
	200 OK (INVITE) ←	<b>+</b>	CON				
	ACK →						
	Apply post test routine						
	1						

TP number	TP_105_009	Reference		7.2.3.1.5		
				table 7.2	2.3.1.5.2	
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Backward call indicator ma					
Test Purpose	Ensure that on receipt of a ANM/CON and the backward call indicator is set to ISDN Use					
	Part used all the way and		<b>ISDN</b> , a 200	OK INVI	TE is sent and the	
	PSTN XML ProgressIndic					
ISUP Parameter values	ANM/CON: BCi ISDN U				the way	
		ss indicator = Terminatir	ng access IS	SDN		
SIP Parameter values	200 OK INVITE					
	xml version="1.0" encode</th <th>ding="utf-8"?&gt;</th> <th></th> <th></th> <th></th>	ding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	<u></u>					
	ProgressOctet4					
	ProgressDescri	iption> <b>0000111</b> <				
Comments						
Message flows	Mg	MGCF	_		ISUP	
	INVITE	<b>→</b>	<b>→</b>	IAM		
	CASE A	_	_			
	180 Ringing	<b>←</b>	+	ACM		
	200 OK (INVITE) ← ANM ACK →					
	CASE B		-	0011		
	200 OK (INVITE)	<del>(</del>	+	CON		
	ACK →					
	Apply post test routine					

TP number	TD 405 040		Reference		7004	F	
i P number	TP_105_010		Reference		7.2.3.1.		
T00	table 7.2.3.1.5.2   SIP-ISUP/Basic call/Sending_of_200_OK/						
TSS reference		call/Sending_c	t_200_OK/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name			r mapped into PST				
Test Purpose	Ensure that on receipt of a ANM/CON and the optional backward call indicator is to in-						
						0 OK INVITE is sent	
			dicator value is set	to 8 (In-ba	nd inform	ation or appropriate	
	pattern is now av						
ISUP Parameter values			rd call indicator In-				
		band informati	on or an appropria	te pattern is	s now ava	ilable	
SIP Parameter values	200 OK INVITE						
	xml version="1</th <th>1.0" encoding=</th> <th>"utf-8"?&gt;</th> <th></th> <th></th> <th></th>	1.0" encoding=	"utf-8"?>				
	PSTN						
	ProgressIndic	cator					
	Progress		0004000				
	Progre	essDescription	>0001000<				
Comments						10115	
Message flows	Mg	_	MGCF	_		ISUP	
	INVITE	→		<b>→</b>	IAM		
	CASE A						
	180 Ringing	<b>←</b>		<b>←</b>	ACM		
	200 OK (INVITE)	<b>←</b>		<b>←</b>	ANM		
	ACK →						
	CASE B						
	200 OK (INVITE)	<b>←</b>		<b>←</b>	CON		
	ACK	→					
			Apply post test	routine			

TP number	TP_105_011	Refe	erence		7.2.3.1.5		
T00 (	OID IOLID/D : II/O		0.01//		table 7.2	2.3.1.5.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria		PICS 6.2.1/5					
Test Purpose name	Receipt of TMU speech in ANM/CON, no BC present in ATP						
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to <b>speech</b> in the						
	ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set to <b>Speech</b>						
ICUD Devementar values		erCapability is	set to <b>Speecn</b>				
ISUP Parameter values	IAM: TMR = second InformationTransferCapability						
		TMR = second information transfer Capability  TMR prime = first InformationTransferCapability					
	USI = first BearerCapability						
	USI prime = second B		tv				
	ANM/CON: Transm						
SIP Parameter values	INVITE: PSTN XML		1 43C4 = 3PCC611				
	xml version="1.0" e</th <th></th> <th>8"?&gt;</th> <th></th> <th></th> <th></th>		8"?>				
	PSTN	nooding an	J				
	BearerCapability						
	BCoctet3						
	CodingStar						
	Information	TransferCapa	bility> <b>00000</b> <				
	BearerCapability						
		BCoctet3					
	CodingStandard>00<						
	InformationTransferCapability>10001<						
	200 OK INVITE	200 OK INVITE					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>						
	PSTN						
	BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>00000<						
Comments							
Message flows	Mg	_	MGCF	_		ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM		
	CASE A	-					
	180 Ringing	<b>←</b>		+	ACM		
	000 OK (INI) (ITE)			,	0 N I N 4		
	200 OK (INVITE)	<del>(</del>		+	ANM		
	ACK	<b>→</b>					
	CASE B						
		_		<b>←</b>	CON		
	200 OK (INVITE)	<b>←</b> →		~	CON		
	ACK	<del>-</del>	anly nost toot =	autino.			
	Apply post test routine						

TP number	TP_105_012	Ref	erence		7.2.3.1.		
					table 7.2	2.3.1.5.1	
TSS reference	SIP-ISUP/Basic call/Sending_of_200_OK/						
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Receipt of TMU 3,1 kHz audio in ANM/CON, no BC present in ATP						
Test Purpose	Ensure that on receipt of a Transmission medium used parameter set to 3,1 kHz audio in						
	the ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set to <b>3,1 kHz audio</b>						
IOUD Developed		n i ransterCap	ability is set to 3	,1 KHZ a	uaio		
ISUP Parameter values	IAM: TMP = second InformationTransferCanability						
	TMR = second InformationTransferCapability TMP prime = first InformationTransferCapability						
		TMR prime = first InformationTransferCapability USI = first BearerCapability					
	USI prime = second B		tv				
	ANM/CON: Transm			audio			
SIP Parameter values	INVITE: PSTN XML		1 43C4 = 0,1 KHZ	audio			
on randings, values	xml version="1.0" e</th <th></th> <th>3"?&gt;</th> <th></th> <th></th> <th></th>		3"?>				
	PSTN	nooding at					
	BearerCapability						
	BCoctet3						
	CodingStar						
	Information	TransferCapa	bility> <b>10000</b> <				
	BearerCapability						
	BCoctet3						
	CodingStandard>00< InformationTransferCapability>10001<						
	200 OK INVITE						
	<pre><?xml version="1.0" encoding="utf-8"?></pre>						
	PSTN  BearerCapability  BCoctet3  CodingStandard>00< InformationTransferCapability>10000<						
Comments							
Message flows	Mg	_	MGCF	_		ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM		
	CASE A	_		-			
	180 Ringing	<b>←</b>		+	ACM		
	000 OK (INI) (ITE)			,	A		
	200 OK (INVITE)	<del>(</del>		<b>←</b>	ANM		
	ACK →						
	CASE B						
		_		_	COM		
	200 OK (INVITE)	<b>←</b> →		+	CON		
	ACK	<del>-</del>	nly nost tost =	outino.			
	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 6.2.1/5					
Test Purpose name	Receipt of TMU, BC p	resent in ATP	PSTN XML Bea	rerCapabilit	ty sent in 200 OK	
Test Purpose	Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer Capability IE in the ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set as indicated in table 6.1.1.5-5					
ISUP Parameter values	IAM:  TMR = second InformationTransferCapability  TMR prime = first InformationTransferCapability  USI = first BearerCapability  USI prime = second BearerCapability  ANM/CON: Transmission medium used, ATP Bearer Capability IE					
SIP Parameter values	200 OK INVITE xml version="1.0" e PSTN BearerCapability BCoctet3 CodingStar Information</th <th>ndard&gt;00&lt;</th> <th>"?&gt; bility&gt;<b>ITC_value</b></th> <th><b>&gt;</b>&lt;</th> <th></th>	ndard>00<	"?> bility> <b>ITC_value</b>	<b>&gt;</b> <		
Comments						
Message flows	Mg INVITE CASE A	<b>→</b>	MGCF	<b>→</b> 1/4	ISUP AM	
	180 Ringing	<b>←</b>		<b>←</b> A	CM	
	200 OK (INVITE) ACK	<b>←</b> →		<b>←</b> A	NM	
	CASE B 200 OK (INVITE) ACK	<b>←</b> →	mly mont 40 st ==		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	Refer	ence	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Ser	nding_of_REL				
Selection criteria						
Test Purpose name	BYE received in confirm	ed dialogue r	o Reason header inc	luded, 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	<b>→</b>	<del>)</del>	IAM		
	100 Trying	<b>←</b>				
	180 Ringing	<b>←</b>	•	• ACM		
	200 OK (INVITE)	<b>←</b>	<del>(</del>	• ANM		
	ACK →					
	BYE	<b>→</b>	<b>-</b>	REL		
	200 OK (BYE)	+	+	· RLC		

TP number	TP_106_002	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sending_c	of_REL/			
Selection criteria					
Test Purpose name	BYE received in confirmed dial	ogue Reason header included	, a REL is sent		
Test Purpose	Ensure that on receipt of a BYE	request in confirmed dialogue	e and a Reason header is		
	present, a REL message is ser	nt. The cause indicator is set to	the Reason header cause		
	value, the location is set to 'net	work beyond interworking poir	nt'		
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value			
	Location :	= network beyond interworking	point		
SIP Parameter values	BYE: Reason: Q.850 [5]; cause	BYE: Reason: Q.850 [5]; cause = Cause_value			
Comments	The Cause_value is a PIXIT p	arameter			
Message flows	Mg	MGCF	ISUP		
_	INVITE ->	<b>→</b>	IAM		
	100 Trying ←				
	180 Ringing ←	<b>←</b>	ACM		
	200 OK (INVITE) ←	<b>←</b>	ANM		
	ACK →				
	BYE →	<b>→</b>	REL		
	200 OK (BYE) ←	<b>+</b>	RLC		

TP number	TP_106_003	Reference	7.2.3.1.7		
TSS reference	SIP-ISUP/Basic call/Sendir	ng_of_REL/	·		
Selection criteria					
Test Purpose name	BYE received in early dialo	gue no Reason header included	d, a REL is sent		
Test Purpose	Ensure that on receipt of a BYE request in early dialogue and no Reason header is present, a REL message is sent. The cause indicator is set to No. 16 (normal clearing), the location is set to 'network beyond interworking point'				
ISUP Parameter values	REL: Cause indicator Cause Value = 16 (normal clearing)  Location = network beyond interworking point				
SIP Parameter values		•			
Comments					
Message flows	Mg INVITE 18x BYE 200 OK (BYE) 487 Request Terminated ACK	MGCF	ACM REL		

TP number	TP 106 004	Reference	7.2.3.1.7			
			1.2.3.1.1			
TSS reference	SIP-ISUP/Basic call/Sending_c	ot_REL/				
Selection criteria						
Test Purpose name	BYE received in early dialogue	Reason header included, a f	REL is sent			
Test Purpose	Ensure that on receipt of a BYI					
	a REL message is sent. The ca	ause indicator is set to the Re	ason header cause value, the			
	location is set to 'network beyo	nd interworking point'				
ISUP Parameter values	<b>REL:</b> Cause indicator Cause	Value = Cause_value				
	Location	= network beyond interworking	ng point			
SIP Parameter values	BYE: Reason: Q.850 [5]; cause	e = Cause_value				
Comments	The Cause_value is a PIXIT p	arameter				
Message flows	Mg	MGCF	ISUP			
	INVITE ->	<b>→</b>	IAM			
	18x ← ACM					
	BYE → REL					
	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'	•	<b>0</b> ,
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	<b>→</b>	<b>→</b>	IAM	
	18x	<del>(</del>	<b>←</b>	ACM	
	CANCEL	<b>→</b>	→	REL	
	200 OK (CANCEL)	<del>(</del>	<b>←</b>	RLC	
	487 Request Terminated	<b>←</b>		•	
	ACK	<b>→</b>			

TP number	TP_106_006	Reference	7.2.3.1.7
TSS reference	SIP-ISUP/Basic call/Sending_c	of_REL/	
Selection criteria			
Test Purpose name	CANCEL received in early dialo	ogue Reason header included,	a REL is sent
Test Purpose	Ensure that on receipt of a CAN		
	present, a REL message is ser		
	value, the location is set to 'net		it'
ISUP Parameter values	<b>REL:</b> Cause indicator Cause '		
		= network beyond interworking	point
SIP Parameter values	CANCEL: Reason: Q.850 [5]; c	ause = Cause_value	
Comments	The Cause_value is a PIXIT pa	arameter	
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	18x <b>←</b>	<b>←</b>	ACM
	CANCEL →	<b>→</b>	REL
	200 OK (CANCEL) ←	<b>←</b>	RLC
	487 Request Terminated ←		
	ACK →		

TP number	TP 106 007	Reference		7.2.3.1.7			
TSS reference				1.2.3.1.1			
	SIP-ISUP/Basic call/Se	enaing_oi_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name			lighLayerCo	mpatibility present, a REL is			
	sent containing a High						
Test Purpose		of a BYE request in confirm					
				is present containing a High			
		The value is mapped as ind					
ISUP Parameter values	REL: ATP High layer	compatibility High Layer Cl	naracteristic	= HLC_value			
SIP Parameter values	BYE:		<u></u>				
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>					
	PSTN						
	HighLayerCompatib	oility					
	HLOctet3	•					
	CodingStand	dard>00<					
		Interpretation>100<					
	PresentationMethod>01<						
	HLOctet4	HLOctet4					
	HighLayerC	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments							
Message flows	Mg	MGCF		ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying	· · · · · ·					
	180 Ringing ← ← ACM						
	7,011						
	200 OK (INVITE) ← ← ANM						
	ACK	÷	•	ZININ			
	ACK	7					
	BYE	<b>→</b>	_	REL			
	- : -						
	200 OK (BYE)	<b>←</b>		RLC			

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

TP number	TP_106_009	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	CANCEL received in early 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	<b>REL:</b> ATP High layer compar	tibility High Layer Characterist	tic = HLC_value			
SIP Parameter values	CANCEL					
	xml version="1.0" encoding</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod	d>01<				
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -	<b>→</b>	IAM			
	CANCEL	<b>→</b>	REL			
	200 OK (CANCEL)	·	RLC			
	487 Request Terminated	-				
	ACK -	•				

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

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
	International Videotex interworking via gateways or interworking units	'0110011'
	5	104404041
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 6.2.1/5						
Test Purpose name	BYE received in confir	med dialogue PSTN XML L	owLayerCompatibility present, a F	REL is			
	sent containing a Low	•	,				
Test Purpose			ned dialogue and a PSTN XML				
	LowLayerCompatibility	y is present, a REL is sent a	nd an ATP is present containing a	Low			
		The value is mapped as inc					
ISUP Parameter values	REL: ATP Low layer	compatibility Information Ti	ansfer Capability = ITC_value				
SIP Parameter values	CANCEL						
	xml version="1.0" e</th <th>ncoding="utf-8"?&gt;</th> <th></th> <th></th>	ncoding="utf-8"?>					
	PSTN						
	LowLayerCompati	bility>					
	LLOctet3>						
		CodingStandard>00<					
	Information	InformationTransferCapability>ITC_value<					
Comments							
Message flows	Mg	MGCF	ISUP				
message news	INVITE	→	→ IAM				
	100 Trying	<del>`</del>	2 I/ dvi				
	, ,	180 Ringing ← ← ACM					
	100 Kinging	Too ranging Too ranging					
	200 OK (INVITE)	200 OK (INVITE) ← ← ANM					
	ACK	• <b>•</b>	7 / / / / /				
	7.010	-					
	BYE	<b>→</b>	→ REL				
	200 OK (BYE)	ě.	€ RLC				

TP number	TP_106_011	Reference	7.2.3.1.7			
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in early dialogous containing a Low layer comp		npatibility present, a REL is sent			
Test Purpose	Ensure that on receipt of a 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" encodin PSTN LowLayerCompatibility LLOctet3> CodingStandard> InformationTransform	-				
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	SIP-ISUP/Basic call/Sending_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	CANCEL received in early d	ialogue PSTN XML LowLayer	Compatibility present, a REL is			
	sent containing a Low layer	sent containing a Low layer compatibility IE				
Test Purpose	Ensure that on receipt of a 0	CANCEL request in early dialog	gue and a PSTN XML			
	LowLayerCompatibility is pro	esent, a REL is sent and an A	TP is present containing a Low			
	layer compatibility IE. The va	alue is mapped as indicated in	table 6.1.1.6-2			
ISUP Parameter values	<b>REL:</b> ATP Low layer comp	atibility Information Transfer C	apability = ITC_value			
SIP Parameter values	CANCEL					
	xml version="1.0" encodir</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>				
	PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00<					
	InformationTrans	InformationTransferCapability>ITC_value<				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	<b>→</b> IAM			
	CANCEL	<b>→</b>	<b>→</b> REL			
	200 OK (CANCEL)	<b>←</b>	RLC			
	487 Request Terminated	<b>←</b>				
	ACK .	<b>→</b>				

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

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

## 6.1.1.7 Receipt of the Release Message

TP number	TP 107 001	Reference	7.2.3.1.8			
TSS reference	SIP-ISUP/Basic call/Receipt of	112101201				
	SIF-ISUF/Basic call/Receipt_0	I_KEL/				
Selection criteria						
Test Purpose name	A REL is received, a BYE requ	est is sent				
Test Purpose	Ensure that on receipt of a REI					
	Reason header is present and	the cause value is set to the r	eceived cause value in the			
	REL Cause indicator					
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value				
SIP Parameter values	BYE: Reason: Q.850 [5]; caus	se = Cause_value				
Comments	Cause_value is a PIXIT param	eter				
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	100 Trying ←					
	180 Ringing ←	<b>+</b>	ACM			
	3 3					
	200 OK (INVITE)	<b>+</b>	ANM			
	ACK →					
	7.010					
	BYE ←	<b>4</b>	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	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 →	<b>→</b>	IAM		
	100 Trying ←				
	SIP_final_Response ←	<b>+</b>	REL		
	ACK →	<b>→</b>	RLC		

TP number	TP 107 003	Reference		7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Rec	eipt_of_REL/				
Selection criteria		•				
Test Purpose name	A REL is received after a	n early dialogue is esta	blished (180	), a final response is sent		
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to sending a 180 Ringing is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response					
ISUP Parameter values		ACM: BCi Called party status = subscriber free REL: Cause indicator Cause Value = Cause_value				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.8	850 [5]; cause = <b>Cause</b>	_value			
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180 Ringing	<b>←</b>	+	ACM		
	SIP_final_Response	<b>←</b>	<b>←</b>	REL		
	ACK	<b>→</b>	<b>→</b>	RLC		

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

TP number	TP 107 005	Reference	7	.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receip			.2.0.1.0		
Selection criteria						
Test Purpose name	A REL is received after an	early dialogue is establis	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 = <mark>Cause_valu</mark>				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.85	0 [5]; cause = <b>Cause_va</b>	lue			
Comments						
Message flows	Mg	MGCF	=		ISUP	
	INVITE	<b>→</b>	→	IAM		
	183 Session Progress	<b>←</b>	+	ACM		
	SIP_final_Response	<b>←</b>	<b>←</b>	REL		
	ACK	<b>→</b>	→	RLC		

TP number	TP_107_006	Referen	ce	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Red	ceipt_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	An ATP Progress indica			nto the PSTN XML		
	ProgressIndicator in the					
Test Purpose				cator IE is present in an ATP, a		
				PSTN XML ProgressIndicator is		
	contained and the Progr		is derived from the	received REL Progress		
	indicator as indicated in					
ISUP Parameter values	REL: ATP Progress In	dicator = <b>PI_val</b> i	ue			
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" end</th <th>coding="utf-8"?&gt;</th> <th></th> <th></th>	coding="utf-8"?>				
	PSTN					
	ProgressIndicator	ProgressIndicator				
	ProgressOctet3					
	CodingStandard>00<					
	Location <yyy< th=""><th colspan="5">Location<yyyy></yyyy></th></yyy<>	Location <yyyy></yyyy>				
	ProgressOctet4					
	ProgressDes	cription>PI_valu	I <b>e</b> <			
Comments						
Message flows	Mg		MGCF	ISUP		
	INVITE	<b>→</b>	→	IAM		
	180 Ringing	<b>←</b>	<b>←</b>	ACM		
	SIP_final_Response	<b>←</b>	<b>←</b>	REL		
	ACK	<b>→</b>	<b>→</b>	RLC		

TP number	TP 107 007	Reference	7.2.3.1.8			
			1.2.3.1.0			
TSS reference		SIP-ISUP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name		An ATP High Layer Compatibility IE present in a REL is mapped into the PSTN XML				
	HighLayerCompatibility in the	sent final response				
Test Purpose	Ensure that on receipt of a RE	L message and High Layer C	ompatibility IE is present in an			
	ATP, a SIP final response as in	ndicated in table 6.1.1.7-1 is s	sent, a PSTN XML			
	HighLayerCompatibility is cont	ained and the HighLayerCha	racteristics is derived from the			
	received REL High Layer Com					
ISUP Parameter values	REL: ATP High Layer Compa					
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
		PresentationMethod>01<				
	HLOctet4					
	HighLayerCharacteristics> <b>HLC_value</b> <					
Comments	inge., e. ee.					
Message flows	Mg	MGCF	ISUP			
	INVITE ->	· -	IAM			
	180 Ringing	•	ACM			
		_				
	SIP final Response	. <b>_</b>	RFL			
	- : : : : : : : : : : : : : : : : : : :					
	ACK -	· →	RLC			

TP number	TP_107_008	Reference	7.2.3.1.8		
TSS reference	SIP-ISUP/Basic call/Receipt_c	of_REL/	·		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Low Layer Compatibil	ity IE present in a REL is n	napped into the PSTN XML		
	LowLayerCompatibility in the s	sent final response			
Test Purpose			r Compatibility IE is present in an		
	ATP, a SIP final response as i				
			FransferCapability is derived from		
	the received REL Low Layer C	Compatibility as indicated in	n table 6.1.1.7-4		
ISUP Parameter values	<b>REL</b> : ATP Low Layer Compa	tibility = ITC_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding:</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00	)<			
	InformationTransfer	Capability>ITC_value<			
	LLOctet4>				
	TransferMode>00<				
	InformationTransfer	Rate>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_Resp	oonse ←SIP Message	← REL
	Status code	Cause parameter
VA_19	501 Not Implemented	Cause value No 29 (facility rejected)
VA_20	480 Temporarily unavailable	Cause value No 31 (normal unspecified) (class default)
VA_21	486 Busy here	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS possible
VA_22	480 Temporarily unavailable	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS not possible or absent
VA_23	500 Server Internal error	Cause value No 38 (Network out of order)
VA_24	503 Service Unavailable	Cause value No 41 (Temporary failure)
VA_25	503 Service Unavailable	Cause value No 42 (Switching equipment congestion)
VA_26	500 Server Internal error	Cause value No 43 (Access information discarded)
VA_27	503 Service Unavailable	Cause value No 44 (Requested channel not available)
VA_28	500 Server Internal error	Cause value No 46 (Precedence call blocked)
VA_29	503 Service Unavailable	Cause value No 47 (Resource unavailable (class default))
VA_30	488 Not acceptable here	Cause value No 50 (requested facility no subscribed)
VA_31	603 Decline	Cause value No 55 (Incoming class barred within Closed User Group (CUG))
VA_32	603 Decline	Cause value No 57 (bearer capability not 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

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

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

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

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

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

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

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

TP number	TP_108_002	Reference	7.2.3.1.9 2)
TSS reference	SIP-ISUP/Basic call/Receipt_of_RS	C-GRS-CGB/	·
Selection criteria	·		
Test Purpose name	GRS received before an early dialo	gue was established	
Test Purpose	Ensure that the SUT does not send	any SIP message if a GRS is	received and no early
	dialogue is established. A 480 Tem	porarily Unavailable for each t	ransaction is sent.
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE (1)	<b>→</b> →	IAM
	100 Trying	<b>←</b>	
	INVITE (2)	<b>→</b> →	IAM
	100 Trying	<b>←</b>	
	480 Temporarily Unavailable (1)	<b>+ +</b>	GRS
	ACK	<b>→</b>	
	480 Temporarily Unavailable (2)	<b>←</b>	
	ACK	<b>→</b> →	GRA

I—— .		I= .	T	
TP number	TP_108_003	Reference	7.2.3.1.9 2)	
TSS reference	SIP-ISUP/Basic call/Receipt_o	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/		
Selection criteria				
Test Purpose name	CGB received before an early	dialogue was established		
Test Purpose	Ensure that the SUT does not	send any SIP message if a C	GB hardware oriented is	
	received and no early dialogue	is established. A 480 Tempo	orarily Unavailable for each	
	transaction is sent.			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE (1)	<b>→</b> →	IAM	
	100 Trying	<b>←</b>		
	INVITE (2)	<b>→</b> →	IAM	
	100 Trying	<b>←</b>		
	480 Temporarily Unavailable	<b>+ +</b>	GGB	
	ACK	<b>→</b>		
	480 Temporarily Unavailable	<b>←</b>		
	ACK	<b>→</b> →	GGBA	

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

TP number	TP 108 005	Reference		7.2.3.1.9 2)
TSS reference	SIP-ISUP/Basic call/Receipt of	SIP-ISUP/Basic call/Receipt_of_RSC-GRS-CGB/		
Selection criteria		<del>_</del>		
Test Purpose name	GRS received after an early dia	logue was established		
Test Purpose		Ensure that the SUT is able to send a 480 Temporarily Unavailable for any dialogue affected in the range, if a <b>GRS</b> is received and an early dialogue is established		
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MGCF		ISUP
	INVITE (1)	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	INVITE (2)	<b>→</b>	<b>→</b>	IAM
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	480 Temporarily Unavailable (1	) <b>←</b>	<b>←</b>	GRS
	ACK	<b>→</b>	<b>→</b>	GRA
	480 Temporarily Unavailable (2	) <b>←</b>		
	ACK	´ <b>→</b>		

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

TP number	TP_108_007	Reference	7.2.3.1.9 1)
TSS reference	SIP-ISUP/Basic call/Receipt_of	E_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 <b>RSC</b> i	s received and a confirmed
	dialogue is established		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	IAM
	180 Ringing	<b>+ +</b>	ACM
	200 OK INVITE	<b>+ +</b>	ANM
	ACK	<b>→</b>	
	BYE	<b>← ←</b>	RSC
	200 OK BYE	<b>→</b>	RLC

TP number	TP_108_008	Reference	7.2.3.1.9 1)
TSS reference	SIP-ISUP/Basic call/Receipt_c	of_RSC-GRS-CGB/	•
Selection criteria			
Test Purpose name	GRS received after a confirme	d dialogue was established	
Test Purpose	Ensure that the SUT is able to	send a BYE request for any	dialogue affected in the range, if
	a GRS is received and a confin	rmed dialogue is established	d
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE (1)	<b>→</b>	<b>→</b> IAM
	180 Ringing	<del>-</del>	<b>E</b> ACM
	200 OK INVITE	<del>-</del>	<b>E</b> ANM
	ACK	<b>→</b>	
	INVITE (2)	<b>→</b>	<b>→</b> IAM
	180 Ringing	<del>-</del>	<b>E</b> ACM
	200 OK INVITE	<del>-</del>	<b>E</b> ANM
	ACK	<b>→</b>	
	BYE (1)	<del>(</del>	<b>←</b> GRS
	200 OK BYE	<b>→</b>	<b>→</b> GRA
	BYE (2)	<b>←</b>	
	200 OK BYE	→	

TP number	TP_108_009	Reference	7.2.3.1.9 1)
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_RSC-GRS-CGB/	· ·
Selection criteria			
Test Purpose name	CGB received after a confirmed	d dialogue was established	
Test Purpose	Ensure that the SUT is able to a CGB hardware oriented is r		alogue affected in the range, if
ISUP Parameter values	a cob naraware enemed to r	occived and a committed diale	guo lo obtabilorioù
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE (1)	<b>→</b>	IAM
	180 Ringing	<del>(</del>	ACM
		<del>(</del>	ANM
	ACK	<b>→</b>	
	INVITE (2)	<b>→</b>	IAM
	180 Ringing	← ←	ACM
	200 OK INVITE	← ←	ANM
	ACK -	<b>→</b>	
	BYE (1)	<del>(</del>	GGB
		<b>→</b>	GGBA
	BYE (2)	<del>(</del>	
	1	<b>→</b>	

### 6.1.1.9 Receipt of REFER

TP number	TP_109_001	Reference	7.2.3.1.9a
TSS reference	SIP-ISUP/Basic call/Receipt_of	_REFER/	
Selection criteria			
Test Purpose name	REFER received in the confirm	ed dialogue	
Test Purpose	Ensure that on receipt of a REF		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	<b>→</b> →	IAM
	100 Trying	<b>←</b>	
	180 Ringing	<b>+ +</b>	ACM
	200 OK (INVITE)	<b>+ +</b>	ANM
	ACK	<b>→</b>	
	REFER	<b>→</b>	
	403 Forbidden	<b>←</b>	
		Apply post test routine	

TP number	TP_109_002	Reference	7.2.3.1.9a				
TSS reference	SIP-ISUP/Basic call/Receipt_o	f_REFER/					
Selection criteria							
Test Purpose name	REFER received in the early d	ialogue					
Test Purpose		Ensure that on receipt of a REFER request in the early dialogue, a 403 Forbidden response to this REFER request is sent					
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b> →	IAM				
	100 Trying	<b>←</b>					
	180 Ringing	<b>← ←</b>	ACM				
	REFER	<b>→</b>					
	403 Forbidden	<b>←</b>					
	Apply post test routine						

#### 6.1.1.10 Autonomous Release at I-MGCF

TP number	TP_110_001	Reference	7.2.3.1.10			
TSS reference	SIP-ISUP/Basic call/Autonom	ous_Release/				
Selection criteria	NOT PICS 6.2.3/1 AND NOT	PICS 6.2.3/2				
Test Purpose name	Determination that insufficient	digits received				
Test Purpose		NVITE request and the SUT det 4 Address Incomplete final resp				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>				
	100 Trying	<b>←</b>				
	484 Address Incomplete ←					
	ACK	<b>→</b>				

TP number	TP_110_002	Reference	7.2.3.1.10
TSS reference	SIP-ISUP/Basic call/Autonomo	ous_Release/	•
Selection criteria			
Test Purpose name	Connection request is not rout	able	
Test Purpose	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 cire	cuit available
Message flows	Mg	MGCF	ISUP
		Apply pre test rout	ine
	INVITE	<b>→</b>	
	100 Trying	<b>←</b>	
	480 Temporarily Unavailable	<b>←</b>	
	ACK	<b>→</b>	

TP number	TP_110_003	Reference		7.2.3.1.10		
TSS reference	SIP-ISUP/Basic call/Autonom	ous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUP/	BICC compatibility procedu	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, parameter compatibility = release call  REL: cause value = 99 or 110				
SIP Parameter values	500 Server Internal Error: Rea	ason: cause=99 or 110				
Comments						
Message flows	Mg	MGCF		ISUP		
		Apply pre test routin	ne			
	INVITE	<b>→</b>	<b>→</b>	IAM		
	180 Ringing	<b>←</b>	<b>←</b>	ACM		
	<b>←</b> CPG					
	500 Server Internal Error	<b>←</b>	<b>→</b>	REL		
	ACK	<b>→</b>	+	RLC		

TP number	TP_110_004	Reference	7.2.3.1.10			
TSS reference	SIP-ISUP/Basic call/Autonome	ous_Release/				
Selection criteria						
Test Purpose name	Call release due to the ISUP/E	BICC compatibility procedure	)			
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	t to #97 and in addition a 500			
	Server Internal Error is sent, the	ne 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	son: cause=97				
Comments						
Message flows	Mg	MGCF	ISUP			
		Apply pre test routine				
	INVITE	<b>→</b>	<b>▶</b> IAM			
	180 Ringing	<b>←</b>	- ACM			
	<any message="" unknown=""></any>					
	500 Server Internal Error	<b>←</b>	REL			
	ACK	<b>→</b>	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	Ensure that on T7 expiry, the call is released. A REL is sent. In addition a 484 Address Incomplete is sent and the cause value of the Reason header is equal to the Cause indicator value in the sent REL					
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	Mg		MGCF			ISUP
_	INVITE	<b>→</b>	T7 expiry	<b>→</b>	IAM	
	484 Address Incomplete	<del>(</del>	схр., у	<b>→</b>	REL	
	ACK	<b>→</b>		<b>←</b>	RLC	

TP number	TP_110_006	Reference	7.2.3.1.10					
TSS reference	SIP-ISUP/Basic call/Autonomo	us_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: R	eason: cause=19						
Comments								
Message flows	Mg	MGCF	ISUP					
	INVITE	<b>→</b> →	• IAM					
	180 Ringing	<b>← ←</b>	- ACM					
		T9 expiry						
	480 Temporarily Unavailable	• •						
	ACK	<b>→</b> +	- RLC					

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

### 6.1.2.1 Sending of INVITE

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

TP number	TP 201 002	Reference	7.2.3.2.1.1			
TSS reference	ISUP-SIP/Basic ca	all/Sending_of_INVITE/				
Selection criteria	PICS 6.2.1/4	<u> </u>				
Test Purpose name	IAM received and received	COT requested or performed,	the INVITE is deferred until COT is			
Test Purpose	Ensure that on receipt of an IAM and the continuity check indicator is set to:         'continuity check required on this circuit'         'continuity check performed on previous circuit' the sending of the initial INVITE request is deferred until the COT message is received and the Continuity indicator is set to 'continuity check successful'					
ISUP Parameter values	IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful					
SIP Parameter values						
Comments						
Message flows	Mg IAM	MGCF →	ISUP			
	СОТ	→ Apply post te	→ INVITE ← 100 Trying st routine			

TP number	TP_201_003		eference	7.2.3.2.1.2		
TSS reference		sic call/Sending_of_I	NVITE/			
Selection criteria	PICS 6.2.1/3					
Test Purpose name	Preconditions	indicated in the sup	ported header			
Test Purpose	Ensure that o performed on request is ser	n receipt of an IAM a a previous circuit' or nt and the Supported	and the continuity indic Continuity check required header contains the vice	cator is set to 'Continuity check uired on this circuit' an INVITE value <b>precondition</b> and <b>100rel</b> . If ent to fulfil the preconditions		
ISUP Parameter values	IAM: Nature	of connection indica	ator= continuity check	required on this circuit or continuity		
		performed on previo				
SIP Parameter values			uity check successful			
SIF Parameter values	INVITE: Su SDP	pported: precondition a=curr:qos local non a=curr:qos remote r a=des:qos mandato a=des:qos none rer	ne none ory local 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:gos remote sendrecv					
	UPDATE: SDP	a=curr:qos local ser a=curr:qos remote r a=des:qos mandato a=des:qos mandato	none ry local sendrecv			
	200 OK UPD SDP	ATE  a=curr:qos local ser  a=curr:qos remote s  a=des:qos mandato  a=des:qos mandato	sendrecv ry local sendrecv			
Comments				10115		
Message flows	IAM COT	<b>→</b>	MGCF  Apply post test routi	ISUP  → INVITE  ← 100 Trying  ← 183 Session Progress  → PRACK  ← 200 OK (PRACK)  → UPDATE  ← 200 OK (UPDATE)		
			apply post test routil	III III III III III III III III III II		

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

TP number	TP_201_005	Reference	7.2.3.2.1.3				
TSS reference	ISUP-SIP/Basic call/Send	ling_of_INVITE/	•				
Selection criteria	PICS 6.2.1/11 AND PICS	6.2.1/12					
Test Purpose name	Information request procecall is rejected	dure not successful, no Calling par	ty number in INF received, the				
Test Purpose	Request (INR) message i	Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message and no Calling party number is present, the call is rejected					
ISUP Parameter values	IAM: No calling party number present INR: Calling party address request indicator=calling party address requested INF: Calling party address response=calling party address not included						
SIP Parameter values	<u> </u>	, <u> </u>					
Comments							
Message flows	INR INF	MGCF  ←  Apply post test routine	ISUP				
	l	Apply post test routine					

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

TP number	TP_201	_007	Reference	7.2.3.2.1.3		
TSS reference	ISUP-SI	P/Basic call/Sending_o	of_INVITE/	•		
Selection criteria	PICS 6.2	2.1/11				
Test Purpose name	Informat	ion request procedure	not successful, T 33 is	expired		
Test Purpose			M and no Calling party nt. 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	<b>→</b> ←	Start T <sub>33</sub>			
	REL ← T <sub>33</sub> Expiry					
	RLC	<b>→</b>	Apply post test rou	tine		

TP number	TP_201_008	Reference	7.2.3.2.1.4 a)
TSS reference	ISUP-SIP/Basic call/Ser	nding_of_INVITE/	
Selection criteria			
Test Purpose name	End of address signalling	ig determined by receipt of e	end-of-pulsing signal
Test Purpose	Ensure that on receipt of	of an IAM and the called part	y number contains the end-of-pulsing
	(ST) signal, the initial IN	NVITE is sent	
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test re	outine

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

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

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

TP number	TP 201 012	Reference	7.2.3.2.1.4			
TSS reference	ISUP-SIP/Basic call/Sending_		7.2.0.2.			
Selection criteria						
Test Purpose name	Early ACM is sent after expiry	of Ti/w2 receipt of end-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 status=no	indication				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
_	IAM →					
	=	Start Ti/w2 →	INVITE 100 Trying			
	ACM ←	Timeout Ti/w2 Apply post test routine				

TP number	TP_201_013	Refe	rence	7.2.3.2.1.4
TSS reference	ISUP-SIP/Basic call/Send	ding_of_IN\	/ITE/	
Selection criteria				
Test Purpose name	Early ACM is sent after e	xpiry of Ti/	v2 receipt of the maximu	ım number of digits used in the
	national numbering plan			-
Test Purpose	Ensure that an initial INV	TTE is sent	after receipt of the maxi	mum number of digits used in
	the national numbering p	lan, the tim	er Ti/w2 is started. After	expiry of Ti/w2 an ACM is sent
	and the called party statu	ıs indicator	is set to 'no indication'	
ISUP Parameter values	ACM: Called party status	s=no indica	tion	
SIP Parameter values				
Comments				
Message flows	Mg		MGCF	ISUP
	IAM	<b>→</b>		
	SAM	<b>→</b>		
	SAM	→ Start *	Γi/w2 →	INVITE
			<b>←</b>	100 Trying
	ACM	← Timed	ut Ti/w2	, ,
		Ap	ply post test routine	

TP number	TP_201_014		Reference		7.2.3.2.1.4	
TSS reference	ISUP-SIP/Basic cal	I/Sending	_of_INVITE/		•	
Selection criteria						
Test Purpose name	Early ACM is sent a call to the called pa	•	y of Ti/w2 receipt of a	sufficient	number of digits	to route the
Test Purpose	call to the called pa	Ensure that an initial INVITE is sent after receipt of a sufficient number of digits to route the call to the called party, the timer Ti/w2 is started. After expiry of Ti/w2 an ACM is sent and the called party status indicator is set to 'no indication'				
ISUP Parameter values	ACM: Called party	status=n	o indication			
SIP Parameter values						
Comments						
Message flows	Mg IAM SAM	<b>→</b>	MGCF		ISI	UP
	SAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE 100 Trying	
	ACM	+	Timeout Ti/w2  Apply post test	routine		

TP number	TP_201_015	Referen	nce	7.2.3.2.1.4	
TSS reference	ISUP-SIP/Basic call/S	Sending_of_INVITE	Ξ/		
Selection criteria	PICS 6.2.3/3				
Test Purpose name	A PSTN XML Sendin determined	gCompleteIndication	on 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  +	ISUP INVITE 100 Trying	
		Арріу	post test routine		

TD number	TD 204 046	Deference	_	7 0 2 0 10 0
TP number TSS reference	TP_201_016	Reference	9	7.2.3.2.1a.2
		all/Sending_of_INVITE/		
Selection criteria	PICS 6.2.3/1			
Test Purpose name	Overlap dialling using the in-dialogue method			
Test Purpose	an insufficient num an additional INVI7 provisional respon	nber of digits, the SUT s TE and INFO requests of se was received for the	ends all the digits of depends on whether initial INVITE requ	
ISUP Parameter values				
SIP Parameter values	INFO: Subsequen	tDigit: <digits i<="" received="" th=""><th>in SAMs&gt;</th><th></th></digits>	in SAMs>	
Comments				
Message flows	Mg		GCF	ISUP
	IAM CASE A	<b>→</b>	<b>→</b>	INVITE
			<b>←</b> →	484 Address Incomplete ACK
	SAM	<b>→</b>	<b>→</b>	INVITE 183 Session Progress
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)
	CASE B		<b>←</b>	183 Session Progress
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)
	SAM	<b>→</b>	<b>→</b>	INFO 200 OK (INFO)
		Apply p	ost test routine	•

TP number	TP_201_0	017	Reference		7.2.3.2.1a.3	
TSS reference	ISUP-SIP	/Basic call/Sending_c	f_INVITE/			
Selection criteria	PICS 6.2.	PICS 6.2.3/2				
Test Purpose name	Overlap d	ialling using the multi	ple INVITE method			
Test Purpose	Ensure th	at on receipt of a 484	Address Incomplete a	s a resp	oonse to an INVITE request	
	containing	g an insufficient numb	er of digits, the SUT se	ends all	the digits received in	
				e Call-II	D and the From tag values are	
	identical t	o the values sent in the	ne initial INVITE			
ISUP Parameter values						
SIP Parameter values	INVITE: Request URI <all and="" digits="" iam="" in="" received="" sams="" the=""></all>					
		From: tag= <equal initial="" invite="" to=""></equal>				
		Call-ID: <equal ini<="" th="" to=""><th>tial INVITE&gt;</th><th></th><th></th></equal>	tial INVITE>			
Comments						
Message flows		Mg	MGCF		ISUP	
	IAM	<b>→</b>		<b>→</b>	INVITE	
				<b>←</b>	484 Address Incomplete	
				<b>→</b>	ACK	
	SAM → INVITE					
	← 484 Address Incomplete					
				<b>→</b>	ACK	
	SAM	<b>→</b>		<b>→</b>	INVITE	
			Apply post test rou	ıtine		

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

TP number	TP_201_019	Reference	7.2.3.2.1a.3			
TSS reference	ISUP-SIP/Basic call/Sending_c	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.3/1					
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&gt;</th><th></th></digit:<>	s received in SAMs>				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	484 Address Incomplete			
		<b>→</b>	ACK			
	SAM →	<b>→</b>	INVITE			
	O' tivi	<b>+</b>	183 Session Progress			
		•	11150			
	SAM →	<b>→</b>	INFO			
		<b>←</b>	200 OK (INFO)			
	ACM ←	<b>←</b>	180 Ringing			
	SAM →					
		Apply post test routine				

TP number	TP_201_	020	Reference		7.2.3.2.1a.3	
TSS reference	ISUP-SIF	P/Basic call/Sending_o	f_INVITE/		•	
Selection criteria	PICS 6.2	PICS 6.2.3/2				
Test Purpose name	Overlap o	dialling using the multi	ple INVITE method			
Test Purpose	Ensure th	at on receipt of a 180	Ringing while the multip	le IN\	VITE procedure is used an	
	additiona	I received SAM is igno	ored			
ISUP Parameter values						
SIP Parameter values	INVITE:	Request URI <all th="" the<=""><th>e received digits in IAM a</th><th>and S/</th><th>AMs&gt;</th></all>	e received digits in IAM a	and S/	AMs>	
		From: tag= <equal th="" to<=""><th></th><th></th><th></th></equal>				
		Call-ID: <equal initial="" invite="" to=""></equal>				
Comments						
Message flows		Mg	MGCF		ISUP	
	IAM	<b>→</b>		<b>→</b>	INVITE	
				<b>←</b>	484 Address Incomplete	
				<b>→</b>	ACK	
	SAM	<b>→</b>		<b>→</b>	INVITE	
				<b>←</b>	484 Address Incomplete	
				<b>→</b>	ACK	
	SAM	<b>→</b>		<b>→</b>	INVITE	
	ACM	<b>←</b>		<b>←</b>	180 Ringing	
	SAM	<b>→</b>			3 3	
			Apply post test routi	ne		

TP number	TP_201_02	1	Reference		7.2.3.2.1a.3
TSS reference		asic call/Sending_of			
Selection criteria		1 AND PICS 6.2.1/3			
Test Purpose name	Overlap dial	ling using the multip	le INVITE method and	d preco	nditions used
Test Purpose	Ensure that on receipt of an IAM and the continuity indicator is set to 'Continuity check performed on a previous circuit' or 'Continuity check required on this circuit' the INVITE requests are sent for all digits to be transferred and the Supported header contains the value <b>precondition</b> and <b>100rel</b> . If the COT message is received, an UPDATE request is sent to fulfil the preconditions				
ISUP Parameter values			icator= continuity che	ck requi	ired on this circuit or continuity
	chec	k performed on prev		-	
SIP Parameter values	SDP	rom: tag= <equal 100rel<="" <equal="" a="des:qos" call-id:="" init="" local="" manda="" none="" precondit="" ra="curr:qos" re:="" remote="" supported:="" th="" to=""><th>ial INVITE&gt; ion, 100rel none e none atory local sendrecv emote sendrecv</th><th>l and S</th><th>AMs&gt;</th></equal>	ial INVITE> ion, 100rel none e none atory local sendrecv emote sendrecv	l and S	AMs>
	SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv				
	UPDATE: SDP			,	
	200 OK UPI SDP	a=curr:qos local s a=curr:qos remote a=des:qos manda a=des:qos manda	e sendrecv atory local sendrecv atory remote sendrecv		
Comments	The SAMs s	should sent within th	e duration of timer T8		
Message flows	IAM SAM	g →	MGCF	→ ←	ISUP INVITE 484 Address Incomplete ACK INVITE 484 Address Incomplete
	SAM	<b>→</b>		→ → ← → ←	ACK INVITE 183 Session Progress PRACK 200 OK (PRACK)
	СОТ	<b>→</b>	Apply post test rou	<b>→</b>	UPDATE 200 OK (UPDATE)

TP number	TP_201_0	22	Reference		7.2.3.2.1a.3	
TSS reference	ISUP-SIP/I	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.3	PICS 6.2.3/1				
Test Purpose name	Timer Ti/w	3 expires, REL cause	e 28 is sent			
Test Purpose	Ensure tha	t on expiry of timer T	i/w3 a REL is sent and	the ca	ause value is set to #28	
ISUP Parameter values	REL: Cau	ise=invalid number fo	ormat (address incomp	lete)		
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	1	Иg	MGCF		ISUP	
	IAM	<b>→</b>	Start Ti/w3	<b>→</b> <b>←</b> <b>→</b>	INVITE 484 Address Incomplete ACK	
	SAM	<b>→</b>	Start Ti/w3	<b>→ ← →</b>	INVITE 484 Address Incomplete ACK	
	REL RLC	<b>←</b> →	Timeout Ti/w3  Apply post test rout	tine		

TD	TD 004 000	ID-4	7,00045					
TP number	TP_201_023	Reference	7.2.3.2.1.5					
TSS reference		/Sending_of_INVITE/						
Selection criteria	PICS 6.2.1/5							
Test Purpose name		I USI prime into PSTN XML Bea						
Test Purpose	Ensure that on rece SUT:	ipt of an IAM that includes a US	I and USI Prime parameter then the					
		Map the USI Prime into the second Bearer Capability stated in the XML						
	BearerCapabili	•						
	<ul> <li>The first offered</li> </ul>	d codec is the CLEARMODE cod	dec					
	Map the USI in element and	<ul> <li>Map the USI into the first Bearer Capability stated in the XML BearerCapability</li> </ul>						
	<ul> <li>The second off</li> </ul>	The second offered codec is a Audio codec						
ISUP Parameter values	IAM: USI=speech							
		nrestricted digital info with T/A						
		TMR Prime: 64 kBit/s preferred						
		deo Telephony)						
SIP Parameter values	INVITE:	7/						
	xml version="1.0"</th <th>encoding="utf-8"?&gt;</th> <th></th>	encoding="utf-8"?>						
	PSTN	onecaming and one						
	BearerCapability	/						
	BCoctet3	•						
		tandard>00<						
		onTransferCapability>mapped fi	rom USI<					
	BearerCapability							
	BCoctet3							
		tandard>00<						
		onTransferCapability>mapped for	rom USI prime<					
		оттаного: <b>С</b> аразину тпарров н						
	SDP:							
	m=audio <proper number="" port=""> RTP/AVP CLEARMODE 8</proper>							
Comments								
Message flows	Mg	MGCF	ISUP					
.5.	IAM	<b>→</b>	→ INVITE					
		<del>-</del>	← 100 Trying					
		Apply post test re	9					
		pp., poor .oot 1						

TP number	TP_201_024	Reference	7.2.3.2.2.1		
TSS reference	ISUP-SIP/Basic call/Sending_	of_INVITE/			
Selection criteria					
Test Purpose name	Called party number is mapped into Request URI in the sent INVITE request				
Test Purpose	Ensure that on receipt of an IA of the sent INVITE request:	AM the called party number is	mapped into the Request URI		
	country code of the netwo	dicator is set to 'National (sign ork in which the SUT is located received in the Called party nu	d and a leading '+' is inserted		
			+' is inserted before the number		
ISUP Parameter values	digits received in the Called party number  IAM: Called party number= National (significant) number or International number				
SIP Parameter values	INVITE: Request URI				
on randings rands	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone</called>				
	or	a panay manada angada Caraca	position, according to		
	tel: '+CC' <calle< th=""><th>d party number digits&gt;</th><th></th></calle<>	d party number digits>			
	if the called party number is a <b>national number</b>				
	sip: '+' <called digits="" number="" party="">@hostportion; user=phone</called>				
	or				
	tel: '+' <called digits="" number="" party=""></called>				
	if the called party number is an international number				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_201_025	Reference	7.2.3.2.2.1		
TSS reference	ISUP-SIP/Basic call/	Sending_of_INVITE/			
Selection criteria					
Test Purpose name	Called party number	is mapped into To header in t	he sent INVITE request		
Test Purpose	Ensure that on receipt of an IAM the called party number is mapped into the Request URI of the sent INVITE request:				
	country code of		onal (significant) number' then the is located and a leading '+' is inserted party number		
	If the nature of address set to 'International number' a '+' is inserted before the number digits received in the Called party number				
ISUP Parameter values	IAM: Called party number= National (significant) number or International number				
SIP Parameter values	INVITE: To				
	sip: '+(	CC' <called digit<="" number="" party="" th=""><th>s&gt;@hostportion; user=phone</th></called>	s>@hostportion; user=phone		
	or				
	tel: '+C	CC' <called digits<="" number="" party="" th=""><th>S&gt;</th></called>	S>		
	if the called pa	arty number is a <b>national nun</b>	nber		
	sip: '+'	<called digits="" number="" party="">@</called>	hostportion; user=phone		
	or				
	tel: '+'	<called digits="" number="" party=""></called>			
	if the called p	party number is an internation	al number		
Comments					
Message flows	Mg	MGCF	ISUP		
_	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
		Apply post test	, ,		

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

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

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

TP number	TP 201 027	Reference	7.2.3.2.2.2		
TSS reference	ISUP-SIP/Basic call/Sending of	of_INVITE/			
Selection criteria	<u> </u>				
Test Purpose name	AMR codec included				
Test Purpose	Ensure that on receipt of an IA	M an INVITE is sent. If the rec	eived IAM contains a TMR set		
	to speech or 3,1 kHz audio, the	SDP in the sent INVITE conta	ains an AMR codec		
ISUP Parameter values	IAM: TMR=speech or 3,1 kH	z audio			
SIP Parameter values	INVITE:				
	SDP:				
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>				
	a = <rtpmap dyr<="" th=""><th>amic PT&gt; AMR</th><th></th></rtpmap>	amic PT> AMR			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP_201_028	Reference	7.2.3.2.2.2			
TSS reference	ISUP-SIP/Basic call/Sending_c	f_INVITE/				
Selection criteria						
Test Purpose name	Mapping of USI parameter					
Test Purpose	Ensure that on receipt of an IA	M the <b>USI_value</b> is mapped in	to the SDP according			
	table 6.1.2.1-2					
ISUP Parameter values	IAM: User service information	1				
SIP Parameter values	INVITE:					
	SDP					
	m= <media> <transport> <fmt-list></fmt-list></transport></media>					
	a= rtpmap: <dynamic-p1< th=""><th>&gt; <encoding name="">/<clock ra<="" th=""><th>te&gt;[/encoding parameters&gt;</th></clock></encoding></th></dynamic-p1<>	> <encoding name="">/<clock ra<="" th=""><th>te&gt;[/encoding parameters&gt;</th></clock></encoding>	te>[/encoding parameters>			
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
		Apply post test routine	• •			

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

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

TP number	TP_201_029	Refe	rence	7.2.3.2.2.3A	
TSS reference	ISUP-SIP/Basic	call/Sending_of_INV	ITE/		
Selection criteria					
Test Purpose name	Mapping of Call	ing party's category i	nto cpc parameter		
Test Purpose	the 'cpc' parame	Ensure that on receipt of an IAM the calling party's category <b>CPC_value</b> is mapped into the 'cpc' parameter in the P-Asserted-Identity and the Accept-Language header in the sent INVITE as described in table 6.1.2.1-3			
ISUP Parameter values	IAM: Calling p	arty's category			
SIP Parameter values	INVITE: P-As	serted-Identity			
Comments					
Message flows	Mg		MGCF	ISUP	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
		Ар	oly 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 Paramete		eters
	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_o	f_INVITE/			
Selection criteria	PICS 6.2.1/8				
Test Purpose name	HOP counter procedure suppor	rted			
Test Purpose	Ensure that on receipt of the HOP counter parameter, the value is mapped into the Max-Forwards header. The value of the Max-Forwards header is created from the HOP counter value by applying a given factor				
ISUP Parameter values	IAM: HOP				
SIP Parameter values	INVITE: Max-Forwards				
Comments	The factor used to map from Hop Counter to Max-Forwards for a given call will depend on call origin, and will be provisioned at the O-MGCF based on network topology, trust domain rules, and bilateral agreement.				
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	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/Sending	_of_INVITE/	·	
Selection criteria					
Test Purpose name	The O-MO	GCF inserts an IMS	Communication Servi	ice Identifier	
Test Purpose		For speech and video calls, the SUT shall insert an IMS Communication Service Identifier, indicating the IMS Multimedia Telephony Communication Service			
ISUP Parameter values					
SIP Parameter values	INVITE:	Contact: icsi-ref Accept-Contact: P-Asserted-Serv	ice: urn:urn-7:3gpp-s	ervice.ims.icsi.mmtel	
Comments					
Message flows		Mg	MGCF	ISUP	
	IAM	<b>→</b>	Apply post test i	→ INVITE ← 100 Trying routine	

TP number	TP_201_032	Reference	7.2.3.2.2.6			
TSS reference	ISUP-SIP/Basic call	/Sending_of_INVITE/				
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Support of P-Early-N	Media header				
Test Purpose	Ensure that on rece request	Ensure that on receipt of an IAM a P-Early-Media header is present in the sent INVITE				
ISUP Parameter values						
SIP Parameter values	INVITE: P-Early-N	Media: supported				
Comments						
Message flows	Mg	MGCF	ISUP			
_	IAM	<b>→</b>	→ INVITE			
			<ul><li>100 Trying</li></ul>			
	Apply post test routine					

TP number	TP_201_033	Reference	7.2.3.2.2.7		
TSS reference	ISUP-SIP/Basic call/Se	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of High Layer	Compatibility IE into PSTN	XML HighLayerCompatibility		
Test Purpose			neter is present containing a High Layer		
			lity element is present derived according		
	the HLC_VA as indicat	ted in table 6.1.2.1-4			
ISUP Parameter values	IAM:				
	ATP High Layer Comp				
	ŭ ,	aracteristics= <b>HLC_VA</b>			
SIP Parameter values	INVITE:				
	PSTN XML MIME body				
	xml version="1.0" er</th <th>ncoding="utf-8"?&gt;</th> <th></th>	ncoding="utf-8"?>			
	PSTN				
	HighLayerCompati	bility			
	HLOctet3				
	CodingStandard>00<				
	Interpretation	on>100<			
		nMethod>01<			
	HLOctet4				
	HighLayerC	haracteristics> <b>HLC_VA</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	<b>→</b>	→ INVITE		
			<ul><li>100 Trying</li></ul>		
		Apply post test r	outine		

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

HLC_VA	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
HLC_VA_1	Telephony	'000001'
HLC_VA_2	Facsimile Group 2/3	'0000100'
HLC_VA_3	Facsimile Group 4 Class I	'0100001'
HLC_VA_4	Facsimile service Group 4, Classes II and III	'0100100'
HLC_VA_5	Syntax based Videotex	'0110010'
HLC_VA_6	International Videotex interworking via gateways or interworking units	'0110011'
HLC_VA_7	Telex service	'0110101'
HLC VA 8	FTAM application	'1000010'

TP number	TP_201_034	Reference	7.2.3.2.2.7		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_INVITE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Low Layer Compa	tibility IE into PSTN XML LowL	ayerCompatibility		
Test Purpose	Ensure stat on receipt of an IA				
	Compatibility IE a PSTN XML		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<				
		Capability> <b>ITC_VA</b> <			
	LLOctet4>				
	TransferMode>00<	D			
0	InformationTransfer	Rate>10000<			
Comments		NOOF.	10115		
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>+</b>	100 Trying		
		Apply post test routine			

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

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

TP number	TP_201_035	Reference	7.2.3.2.2.7	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Bearer Capability IE into PSTN XML BearerCapability			
Test Purpose	Ensure stat on receipt of an IAM and an USI parameter is present, a PSTN XML BearerCapability element is present derived according the ITC_value as indicated in			
	table 6.1.2.1-6			
ISUP Parameter values	iam:			
	USI			
	Information Transfer Capability=ITC_value			
SIP Parameter values	INVITE:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
PSTN				
	BearerCapability BCoctet3 CodingStandard>00<			
InformationTransferCapability>ITC_value				
	BCoctet4			
	TransferMode>00< InformationTransferRate>10000<			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	INVITE	
	← 100 Trying			
Apply post test				

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

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

TP number	TP_201_036	Reference	7.2.3.2.2.7
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/22		
Test Purpose name	Mapping of ISUP UTI parameter into PSTN XML BearerCapability		
Test Purpose	Ensure stat on receipt of an IAM and an User Teleservice Information parameter is		
	present, a PSTN XML HighLayerCompatibility element is present derived according the		
	HLC_value as indicated in tabl	e 6.1.2.1-7	
ISUP Parameter values	IAM: UTI		
	<u> </u>	eristics> <b>HLC_value</b>	
SIP Parameter values	INVITE:		
	PSTN XML MIME body		
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	HighLayerCompatibility		
	HLOctet3		
	CodingStandard>00<		
	Interpretation>100<		
	PresentationMethod>01<		
	HLOctet4		
	HighLayerCharacteristics> <b>HLC_value</b> <		
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	<b>→</b>	INVITE
	← 100 Trying		
	Apply post test routine		

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

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

TP number	TP_201_037	Reference	7.2.3.2.2.8	
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Forward call indicator into PSTN XML ProgressIndicator			
Test Purpose	Ensure that on receipt of an IAM the ISDN User Part indicator and the ISDN access			
	indicator of the Forward call indicator are mapped into a PSTNXML ProgressIndicator			
	element according the roles PI_value in table 6.1.2.1-8			
ISUP Parameter values	IAM: Forward call indicator			
	ISDN User Part indic	cator		
	ISDN access 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> <b>PI_value</b> <			
Comments	The Progress indicator value 6	is not specified in Q.931		
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	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 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_of_INVITE/					
Selection criteria	PICS 6.2.1/5					
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 colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard>00<					
	Location>0000<					
	ProgressOctet4					
	ProgressDescription>PI_VA<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	Apply post test routine					

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

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

TP number	TP_201_039	Reference	7.2.3.2.2A1.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.2/1				
Test Purpose name	Number Porta	bility Separate Directory Number	Addressing 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				
	"National (sigr format", an IN		ng number in network specific number		
			n the Called Directory Number. '+CC' is		
	-	e the digitstring:			
			rived from the Called Party Number. '+CC'		
	is inserted	d before the digitstring	·		
	• The <b>npdi</b>	URI parameter is added to the re	quest URI		
	The userpart of	of the <b>To header</b> field is derived fr	om the Called Directory Number. '+CC' is		
		e the digitstring:			
	The rn parameter of the request URI is derived from the Called Party Number. '+CC'				
	is inserted before the digitstring				
	The npdi URI parameter is added to the request URI				
ISUP Parameter values	IAM: Called party number "National (significant) number"				
	Called Directory Number				
	Nature of address indicator:				
	"Network routing number in national (significant) number format" or				
		"National (significant) number" or	aula an a aifi a na mah an fanna atll		
SIP Parameter values	"Network routing number in network specific number format"				
SIP Parameter values	INVITE: Request line <+CC Called Directory Number>; rn= +CC Called party number;npdi				
	To: <+CC Called Directory Number>; rn= +CC Called party number;npdi				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	<b>→</b>	→ INVITE		
			<ul><li>100 Trying</li></ul>		
		Apply post te	st routine		

TP number	TP_201_040	Reference	7.2.3.2.2A1.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.2/2				
Test Purpose name	Number Portability Concatenated Addressing 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	IAM: Called party nu	rameter is added to the requirement	est UNI		
looi raiailletei vaides	Nature of address indicator:				
	"Network routing number concatenated with called directory number" or				
	"National (significant) number"				
SIP Parameter values	INVITE: Request line <+CC Called Party Number>; rn= <+CC Portability Routing Number>;npdi To: <+CC Called Party Number>; rn= <+CC Portability Routing Number>;npdi				
Comments	ļ				
Message flows	Mg	MGCF	ISUP		
	IAM	<b>→</b>	→ INVITE		
		Amalaamaaattaat	← 100 Trying		
		Apply post test	routine		

TP number	TP_201_041	Reference	7.2.3.2.2A1.3		
TSS reference	ISUP-SIP/Basic call/Sending	g_of_INVITE/			
Selection criteria	PICS 6.2.2/3				
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.				
	The npdi URI parameter is added to the request URI				
ISUP Parameter values	IAM: Called party number Network Routing Nur Nature of addres "Network routi "National (sign	"National (significant) number' nber	cant) number format" or		
SIP Parameter values	•	CC Called Party Number>; rn=	<+CC Network Routing		
	Number>;npd To: <+CC Called	i Party Number>; rn= <+CC Ne	twork Routing Number>;npdi		
Comments					
Message flows	Mg IAM →	MGCF  ← Apply post test routine	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 6.2.2/5 AND PICS 6.2	.2/8			
Test Purpose name	Mapping of ISUP carrier sele	ection information into 'dai' URI p	arameter		
Test Purpose	Ensure that on receipt of an IAM and a Transit Network Selection parameter is present, the value of the Transit Network Selection parameter is sent in the <b>cic</b> URI parameter of the <b>Request URI</b> of the sent INVITE request				
ISUP Parameter values	IAM: Transit Network Sele	ction			
SIP Parameter values	<b>INVITE:</b> Request URI sip:	<called number;cic="TNS" party="" th="" v<=""><th>alue</th></called>	alue		
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/	/Sending_of_INVITE/	·		
Selection criteria	PICS 6.2.2/5 AND P	ICS 6.2.2/9			
Test Purpose name	Mapping of ISUP ca	rrier selection information into 'da	ai' URI parameter		
Test Purpose	Ensure that on receipt of an IAM and a carrier selection information parameter is present, the value of the carrier selection information parameter is sent in the <b>dai</b> URI parameter of the <b>Request URI</b> of the sent INVITE request as indicated in table 6.1.2.1-10				
ISUP Parameter values	IAM: Transit Netwo	ork Selection			
SIP Parameter values	INVITE: Request l	INVITE: Request URI sip: <called number;dai="SIP_dai&lt;/th" party=""></called>			
Comments					
Message flows	Mg MGCF ISUP				
	IAM	<b>→</b>	→ INVITE		
	← 100 Trying				
	Apply post test routine				

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

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

## 6.1.2.2 Receipt of CONTINUITY

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

## 6.1.2.3 Sending of ACM and awaiting answer indication

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

TP number	TP_203_002	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria						
Test Purpose name	An ACM is sent after a 180 Rin					
Test Purpose	Ensure that on receipt of a 180	Ringing provisional respo	nse without P-Early-Media			
	header, the SUT sends an ACM	<ol> <li>The Called party's statu</li> </ol>	s indicator is set to 'subscriber			
	free'. The ringing tone is sent b					
ISUP Parameter values	ACM: Called party's status ind	icator =subscriber free				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	<b>←</b> /	Ringing tone	5 5			
	Apply post test routine					

TP number	TP_203_003	Reference		7.2.3.2.4	4		
TSS reference	ISUP-SIP/Basic call/S	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/9						
Test Purpose name	180 received, a P-Ear	ly-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 =subscribe	r free				
SIP Parameter values							
Comments							
Message flows	Mg IAM ACM	MGCF  →  ←  Ringing tone  Apply post tes	<b>←</b> 10 <b>←</b> 18	NVITE 00 Trying 80 Ringing	ISUP		

TP number	TP_203_004	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/				
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/	14				
Test Purpose name	180 received, a P-Early-Media	header not authorize earl	y media is present			
Test Purpose	Ensure that on receipt of a 180 Ringing provisional response with P-Early-Media header does not authorize the backward early media, the SUT sends an ACM. The Called party's status indicator is set to 'subscriber free'. Based on local knowledge that the call is transited to a PSTN network the SUT does not generate the awaiting answer indication.					
ISUP Parameter values	ACM: Called party's status ind	icator =subscriber free				
SIP Parameter values	180 P-Early-Media: inactive					
Comments	r zany media: maenye					
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE 100 Trying			
	ACM ← 180 Ringing					
	← Early media					
		Apply post test routing	e			

TP number	TP_203_005	Reference	7.2.3.2.4				
TSS reference	ISUP-SIP/Basic call/Sending	_of_ACM/					
Selection criteria	PICS 6.2.1/9						
Test Purpose name	181 received, a P-Early-Med	ia header authorize early m	nedia 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 status i	ACM: Called party's status indicator =no indication oBCi = in-band information or appropriate pattern is now available					
SIP Parameter values	181 P-Early-Media: sendonly						
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM →	<b>→</b>	INVITE 100 Trying				
	ACM ←	<b>←</b>	181 Call is Being Forwarded				
	<b>←</b>	<u>.</u>					
		Apply post test routi	ne				

TP number	TP_203_006	Reference		7.2.3.2.4			
TSS reference	ISUP-SIP/Basic ca	all/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/9	<u>-</u>					
Test Purpose name	183 received, a P-	Early-Media header auth	orize 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 oBCi = in-band information or appropriate pattern is now available					
SIP Parameter values	183 P-Early-Media:						
Comments		•					
Message flows	Mg	MGCI	=	ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE 100 Trying			
	ACM ← 183 Session Progress						
	← Early media  Apply post test routine						
		Арріу ро	or real lour	IIIC			

TP number	TP_203_007	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/				
Selection criteria						
Test Purpose name	ACM is sent after T i/w2 was e	xpired				
Test Purpose	Ensure that after expiry of timer T i/w2 an ACM is sent. The Called party's status indicator is set to 'no indication'					
ISUP Parameter values	ACM: Called party's status inc	licator =no indication				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →		NVITE 00 Trying			
	ACM ← T i/w2 expired Apply post test routine					

TP number	TP_203_008	Refer	ence	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic ca	II/Sending_of_ACN	1/			
Selection criteria	PICS 6.2.1/15					
Test Purpose name	MGW plays out ear	rly media associate	ed with the Alert-In	fo header		
Test Purpose	Ensure that the MGW plays a early media associated with the URL in an Alert-Info header contained in a received 180 Ringing response					
ISUP Parameter values						
SIP Parameter values	180: Alert-Info: <	Media resource U	RL>			
Comments						
Message flows	Mg		<b>IGCF</b>	ISU	P	
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
	Apply post test routine					

TP number	TP_203_009	Reference	7.2.3.2.4			
TSS reference	ISUP-SIP/Basic call/Sending_o	of_ACM/				
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/	17				
Test Purpose name	The SUT terminates the sendir	ng of awaiting answer indication	n.			
Test Purpose	Ensure that the SUT terminate					
	P-Early-Media received in a 18					
	authorizes backward early med	dia. The sending awaiting answ	er indication is disabled.			
ISUP Parameter values						
SIP Parameter values	183: P-Early-Media: inactive					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	T i/w2 started → INV	TE			
		<b>←</b> 100	Trying			
	ACM ←	T i/w2 expired				
	Ringing tone					
	← 183 Session Progress					
		Apply post test routine				

TP number	TP_203_010	Reference	7.2.3.2.4		
TSS reference	ISUP-SIP/Basic call/Sending_	of_ACM/			
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/	16			
Test Purpose name	The SUT initiates the sending	of awaiting answer indication	on		
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header authorizes backward early media				
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: sendonly				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →		INVITE 100 Trying		
	ACM ←	<b>←</b>	183 Session Progress		
	← ← Early media				
	Apply post test routine				

TP number	TP_203_01	1	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/B	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria							
Test Purpose name	180 receive	d, coding of Backw	ard call indicator in ACM	TMR speech or 3,1 kHz audio			
Test Purpose				speech or 3,1 kHz received.			
				CM is sent and the Backward call			
	indicator is	set to the following	values:				
	<ul> <li>Charge</li> </ul>	indicator = charge	(10)				
	<ul> <li>Called</li> </ul>	party's status indic	ator = subscriber free (01				
	<ul> <li>Called</li> </ul>	party's category inc	dicator = no indication (0	0)			
	<ul> <li>End-to-</li> </ul>	end method indica	tor = no end-to-end meth	nod available (00)			
	<ul> <li>Interwo</li> </ul>	rking indicator = in	terworking encountered	(1)			
	<ul> <li>End-to-</li> </ul>	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>					
	<ul> <li>ISDN u</li> </ul>	<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>					
	<ul> <li>ISDN a</li> </ul>	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>					
	<ul> <li>Echo c</li> </ul>	<ul> <li>Echo control device indicator = incoming echo control device included (1)</li> </ul>					
ISUP Parameter values	IAM: Tran						
SIP Parameter values							
Comments							
Message flows	M	Mg MGCF ISUP					
	IAM	•					
		← 100 Trying					
	ACM	, ,					
			Apply post test rout	ine			

TP number	TP_203_012	Reference	7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_	of_ACM/				
Selection criteria						
Test Purpose name	181 received, coding of Backy	vard call indicator in ACM	TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Mediu	m Requirement indicator=s	speech or 3,1 kHz received.			
	Ensure that on receipt of a 18	1 Call is Being forwarded r	esponse, an ACM is sent and the			
	Backward call indicator is set	to the following values:				
	<ul> <li>Charge indicator = charge</li> </ul>	e (10)				
	<ul> <li>Called party's status indic</li> </ul>	ator = no indication (00)				
	1 -	dicator = no indication (00)	)			
		ator = no end-to-end metho				
		<ul> <li>Interworking indicator = interworking encountered (1)</li> </ul>				
	End-to-end information indicator = no end-to-end information available (0)					
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)					
	ISDN access indicator = terminating access non-ISDN (0)					
	Echo control device indicator = incoming echo control device included (1)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz					
SIP Parameter values		- 1	· · · · · · · · · · · · · · · · ·			
Comments						
Message flows	Mg	MGCF	ISUP			
_	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM <b>←</b>	<b>←</b>	181 Call is Being forwarded			
		Apply post test routine				

TP number	TP_203_013	Reference	7.2.3.2.5.1				
TSS reference	ISUP-SIP/Basic	call/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/9 AN	ID NOT PICS 6.2.1/18					
Test Purpose name	183 received, co	oding of Backward call indicat	or in ACM TMR speech or 3,1 kHz audio				
Test Purpose	IAM with Transn	nission Medium Requirement	indicator=speech or 3,1 kHz received.				
	Ensure that on r	eceipt of a 183 Session Prog	ress response, an ACM is sent and the				
	Backward call in	dicator is set to the following	values:				
	<ul> <li>Charge indi</li> </ul>	cator = charge (10)					
	<ul> <li>Called party</li> </ul>	s status indicator = no indica	ation (00)				
	<ul> <li>Called party</li> </ul>	r's category indicator = no inc	dication (00)				
	<ul> <li>End-to-end</li> </ul>	method indicator = no end-to	end method available (00)				
	<ul> <li>Interworking</li> </ul>	g indicator = interworking end	ountered (1)				
	<ul> <li>End-to-end</li> </ul>	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>					
	<ul> <li>ISDN user part/BICC indicator = ISDN user part not used all the way (0)</li> </ul>						
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>						
	Echo control device indicator = incoming echo control device included (1)						
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz						
SIP Parameter values							
Comments							
Message flows	Mg MGCF ISUP						
	IAM → INVITE						
		← 100 Trying					
	ACM	<b>←</b>	← 183 Session Progress				
	Apply post test routine						

TP number	TP_203_014	Refer	ence	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.4/2 AN	ID NOT PICS 6.2.1/18				
Test Purpose name	180 received, co	ding of Backward cal	indicator in ACM 7	TMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transn	nission Medium Requi	rement indicator=6	4 kBit/s unrestricted received.		
	Ensure that on r	eceipt of a 180 Ringin	g response, an AC	M is sent and the Backward call		
	indicator is set to	the following values:				
	<ul> <li>Charge indi</li> </ul>	cator = charge (10)				
	<ul> <li>Called party</li> </ul>	's status indicator = s	ubscriber free (01)			
	<ul> <li>Called party</li> </ul>	s category indicator :	no indication (00)			
	<ul> <li>End-to-end</li> </ul>	method indicator = no	end-to-end metho	d available (00)		
	<ul> <li>Interworking</li> </ul>	indicator = interwork	ng encountered (1	)		
	<ul> <li>End-to-end</li> </ul>	information indicator :	no end-to-end inf	ormation available (0)		
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)					
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>					
	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	IAM → INVITE					
			<b>←</b>	100 Trying		
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
		Арр	y post test routin	e		

TD	TD 000	24.5	Defenses	700054			
TP number		TP_203_015   Reference   7.2.3.2.5.1					
TSS reference		/Basic call/Sending_					
Selection criteria	PICS 6.2.	4/2 AND NOT PICS	6.2.1/18				
Test Purpose name	181 recei	ved, coding of Backv	ard call indicator in ACN	/I TMR 64 kBit/s unrestricted			
Test Purpose	IAM with	Transmission Mediur	n Requirement indicator	=64 kBit/s unrestricted received.			
	Ensure th	at on receipt of a 18°	1 Call is Being forwarded	d response, an ACM is sent and the			
	Backward	I call indicator is set t	to the following values:				
	<ul> <li>Char</li> </ul>	ge indicator = charge	e (10)				
	<ul> <li>Calle</li> </ul>	d party's status indic	ator = no indication (00)				
		-	dicator = no indication (0	00)			
			tor = no end-to-end met				
			terworking encountered	• •			
		•	•	• •			
		• 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 assessing time term assessment ISDN (0)  ISDN assessment					
	ISDN access indicator = terminating access non-ISDN (0)						
	Echo control device indicator = incoming echo control device not included (0)						
ISUP Parameter values	IAM: Tr	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values							
Comments							
Message flows	Mg MGCF ISUP						
	IAM	<b>→</b>	<b>→</b>	INVITE			
			<b>←</b>	100 Trying			
	ACM	<b>←</b>	+	181 Call is Being forwarded			
	1		Apply post test rout				

TP number	TP_203_016	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6.2.1/18 AND PICS 6.2.1/9				
Test Purpose name	183 received, coding of 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 response	e, an ACM is sent and the		
	Backward call indicator is set to	the following values:			
	<ul> <li>Charge indicator = charge</li> </ul>	(10)			
	<ul> <li>Called party's status indicate</li> </ul>	ator = no indication (00)			
	<ul> <li>Called party's category inc</li> </ul>	licator = no indication (00)			
	<ul> <li>End-to-end method indicat</li> </ul>	or = no end-to-end method a	available (00)		
		erworking encountered (1)	` ,		
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	<ul> <li>ISDN access indicator = terminating access non-ISDN (0)</li> </ul>				
	• Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values		·			
Comments					
Message flows	Mg MGCF ISUP				
	IAM →	<b>→</b> IN	IVITE		
		<b>←</b> 10	00 Trying		
	ACM ←		33 Session Progress		
		Apply post test routine	· ·		

TP number	TP_203_017	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/18				
Test Purpose name	180 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
	Ensure that on recei	pt of a 180 Ringing response	, an ACM is sent and the Backward call		
	indicator is set to the	e following values:			
	<ul> <li>Charge indicato</li> </ul>	r = charge (10)			
	<ul> <li>Called party's st</li> </ul>	tatus indicator = subscriber fr	ree (01)		
	<ul> <li>Called party's ca</li> </ul>	ategory indicator = no indicat	ion (00)		
	<ul> <li>End-to-end met</li> </ul>	hod indicator = no end-to-end	d method available (00)		
	<ul> <li>Interworking ind</li> </ul>	licator = no interworking en	countered (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)				
	<ul> <li>ISDN access indicator = terminating access ISDN (1)</li> </ul>				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	IAM → INVITE				
	← 100 Trying				
	ACM	<b>←</b>	← 180 Ringing		
		Apply post tes	t routine		

TP number	TP_203_018	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/18				
Test Purpose name	181 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted				
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
	Ensure that on rece	eipt of a 181 Call is Being	g forwarded response, an ACM is sent and the		
	Backward call indic	ator is set to the following	ng values:		
	<ul> <li>Charge indicat</li> </ul>	or = charge (10)			
	<ul> <li>Called party's s</li> </ul>	status indicator = no indi	ication (00)		
		category indicator = no i			
	<ul> <li>End-to-end me</li> </ul>	ethod indicator = no end-	to-end method available (00)		
		dicator = no interworki			
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part used all the way (1)				
	ISDN access indicator = terminating access ISDN (1)				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
	ACM	<b>←</b>	← 181 Call is Being forwarded		
		Apply po	st test routine		

TD 202 010	Poforonoo	7.2.3.2.5.1			
183 received, codir	ng of Backward call indicator	r in ACM TMR 64 kBit/s unrestricted			
IAM with Transmiss	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.				
Ensure that on rece	eipt of a 183 Session Progre	ess response, an ACM is sent and the			
Backward call indic	cator is set to the following v	alues:			
	~				
•	• ,	on (00)			
		· ·			
· · · · · · · · · · · · · · · · · · ·					
End to one information malodies – no one to one information available (o)					
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)					
IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
Mg MGCF ISUP					
IAM	<b>→</b>	→ INVITE			
		← 100 Trying			
ACM	<b>←</b>	← 183 Session Progress			
Apply post test routine					
	PICS 6.2.4/2 AND 183 received, codir IAM with Transmis Ensure that on received, call indiceived, call indiceived, called party's Called party's End-to-end meion interworking ir End-to-end inf ISDN user par ISDN access i Echo control d IAM: Transmission	ISUP-SIP/Basic call/Sending_of_ACM/ PICS 6.2.4/2 AND PICS 6.2.1/18 AND PICS 6.  183 received, coding of Backward call indicator IAM with Transmission Medium Requirement in Ensure that on receipt of a 183 Session Progre Backward call indicator is set to the following via Charge indicator = charge (10)  Called party's status indicator = no indication   Called party's category indicator = no indication   End-to-end method indicator = no end-to-eound   Interworking indicator = no interworking eound   ISDN user part/BICC indicator = ISDN use   ISDN access indicator = terminating access   Echo control device indicator = incoming eound   IAM: Transmission Medium Requirement indicator   Mg   MGCF			

TP number	TP_203_020	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria					
Test Purpose name	180 received, coding of B	180 received, coding of Backward call indicator in ACM HLC "Facsimile Group 2/3".			
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 180 Ringing response, an ACM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = subscriber free (01)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)  Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility= Facsimile Group 2/3				
SIP Parameter values	:g.: =aye: ••pe				
Comments					
Message flows	Mg MGCF ISUP				
_		<b>→</b>	INVITE 100 Trying 180 Ringing		
		Apply post test routi	ne		

TP number	TP_203_021	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria					
Test Purpose name	181 received, coding of Backward call indicator in ACM HLC "Facsimile Group 2/3".				
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 181 Call is Being forwarded response, an ACM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10) Called party's status indicator = no indication (00) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz				
	High Layer Compatibility= Facsimile Group 2/3				
SIP Parameter values			·		
Comments					
Message flows	Mg MGCF ISUP				
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
	ACM	<b>←</b>	<ul> <li>181 Call is Being forwarded</li> </ul>		
		Apply post t	est routine		

TP number	TP_203_022	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9				
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	<ul> <li>Echo control device indicator = incoming echo control device not included (0)</li> <li>IAM: Transmission Medium Requirement indicator=3,1 kHz</li> </ul>				
Turamotor values	High Layer Compatibility= Facsimile Group 2/3				
SIP Parameter values	1g		<del>,                                    </del>		
Comments					
Message flows	Mg MGCF ISUP				
	IAM ACM	<b>→</b>	<ul><li>→ INVITE</li><li>← 100 Trying</li><li>← 183 Session Progress</li></ul>		
		Apply post tes	<u> </u>		

TP number	TP_203_023	R	eference	7.2.3.2.5.1		
TSS reference		ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5	, <u>Corrainig_or_</u>	. (3171)			
Test Purpose name		XML Progressi	ndicator 1 into Backy	vard call indicator in ACM		
Test Purpose	Ensure that on reco	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 1 is mapped into the Backward call indicator present in the ACM:				
	ISDN User Part inc		ckward can maicator	present in the Aowi.		
		rt not used all t	he way (0)			
ISUP Parameter values	ACM: ISDN User		aro way (o)			
	ISDN Us	ser Part not us	sed all the way			
SIP Parameter values	180:					
	xml version="1.0</th <th colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndica	ProgressIndicator				
		ProgressOctet4				
		ProgressDescription>0000001<				
Comments	<u> </u>	Progress Information: 'Call is not end-to-end ISDN: further call progress information may				
	be available in-band'					
Message flows	Mg	Mg MGCF ISUP				
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	ACM ← 180 Ringing					
		Apply post test routine				

TP number	TP_203_024	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 2 in 180 into E	Backward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 2 is mapped into the Backward call indicator present in the ACM:				
	ISDN User Part indicator	Dackward can indicator pr	resent in the 7 tolvi.		
	ISDN User Part used a	Il the way (1)			
	ISDN access indicator	ii tiio way (1)			
	Terminating access no	n-ISDN (0)			
ISUP Parameter values	ACM: ISDN User Part indicate	\ /			
	ISDN User Part us	ISDN User Part used all the way			
	ISDN access indicator				
	Terminating access non-ISDN				
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routing	ne		

TP number	TD 202 025	Reference	700054			
	TP_203_025		7.2.3.2.5.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 7 in 180 into Backward call indicator in ACM					
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 7 is mapped into the Backward call indicator present in the ACM: ISDN User Part indicator  ISDN User Part used all the way (1) ISDN access indicator  Terminating access ISDN (1) Interworking indicator  no interworking encountered (0)					
ISUP Parameter values	ACM: ISDN User Part indicator ISDN User Part used all the way ISDN access indicator Terminating access ISDN Interworking indicator no interworking encountered					
SIP Parameter values	180: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<					
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	Mg					
_	IAM	→ ← Apply post test	<ul><li>→ INVITE</li><li>← 100 Trying</li><li>← 180 Ringing</li><li>routine</li></ul>			

TP number	TP_203_026	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 in 180 into optional Backward call indicator in ACM				
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 8 is mapped into the Optional backward call indicator present in the ACM:  Optional backward call indicators  In-band information indicator  • in-band information or an appropriate pattern is now available				
ISUP Parameter values	ACM: Optional backward call				
	In-band information indicator				
	in-band information or an appropriate pattern is now available"				
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> <b>0001000</b> <			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	Mg MGCF ISUP				
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
		Apply post test routing			

TP number	TP_203_027	Reference	7.2.3.2.5.1		
TSS reference	ISUP-SIP/Basic call/Sending of ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9			
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 183 into B	ackward call indicator in ACM		
Test Purpose			PSTN XML ProgressIndicator is		
	present, the value 1 is mapped	into the Backward call inc	licator present in the ACM:		
	ISDN User Part indicator				
	<ul> <li>ISDN User Part not used a</li> </ul>	all the way (0)			
ISUP Parameter values	ACM: ISDN User Part indicate	r			
	ISDN User Part not	used all the way			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments	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 <b>←</b>	<b>←</b>	183 Session Progress		
	Apply post test routine				

TP number	TP_203_028	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9			
Test Purpose name	Mapping of PSTN XML ProgressIndicator 2 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 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			
	Terminating access non	ISDN (0)		
ISUP Parameter values	ACM: ISDN User Part indicate			
loor rarameter values	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	>000010<		
Comments	Progress Information: 'Destination address is non-ISDN'			
Message flows	Mg	MGCF	ISUP	
	IAM -	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	ACM ←	<b>←</b>	183 Session Progress	
		Apply post test routin	e	

resent, the value 7 is mapped SDN User Part indicator  ISDN User Part used all	essIndicator 7 in 183 into Bac Session Progress and the F into the Backward call indica	PSTN XML ProgressIndicator is		
PICS 6.2.1/5 AND PICS 6.2.1/5 Mapping of PSTN XML Progressinsure that on receipt of a 183 resent, the value 7 is mapped SDN User Part indicator  ISDN User Part used all	essIndicator 7 in 183 into Bac Session Progress and the F into the Backward call indica	STN XML ProgressIndicator is		
Mapping of PSTN XML Progressinsure that on receipt of a 183 resent, the value 7 is mapped SDN User Part indicator  ISDN User Part used all	ssIndicator 7 in 183 into Bac Session Progress and the F into the Backward call indica	STN XML ProgressIndicator is		
insure that on receipt of a 183 resent, the value 7 is mapped SDN User Part indicator  ISDN User Part used all	Session Progress and the F into the Backward call indicate the backward cal	STN XML ProgressIndicator is		
resent, the value 7 is mapped SDN User Part indicator  ISDN User Part used all	into the Backward call indica			
Terminating access ISD	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is present, the value 7 is mapped into the Backward call indicator present in the ACM: ISDN User Part indicator  ISDN User Part used all the way (1) ISDN access indicator  Terminating access ISDN (1)			
nterworking indicator				
<ul> <li>no interworking encount</li> </ul>	tered (0)			
ACM: ISDN User Part indicator ISDN User Part used all the way ISDN access indicator Terminating access non-ISDN Interworking indicator no interworking encountered				
183: P-Early-Media: sendonly xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<				
Progress Information: value not specified. Meaning 'terminating user is ISDN'				
Mg	MGCF	ISUP		
AM →	<b>←</b> 10	VITE 00 Trying 33 Session Progress		
	83: P-Early-Media: sendonly ?xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription Progress Information: value no	83: P-Early-Media: sendonly ?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111< Progress Information: value not specified. Meaning 'termina' Mg MGCF AM  IN  10		

TP number	TP_203_030	Reference	7.2.3.2.5.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9			
Test Purpose name	Mapping of PSTN XML 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			
	In-band information ind	icator		
		n or an appropriate pattern	n is now available	
ISUP Parameter values	ACM: Optional backward call indicators			
	In-band information			
	•	ion or an appropriate patte	ern 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 →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	ACM ←	<b>←</b>	183 Session Progress	
		Apply post test routing	ne	

TD number	TD 202 024	Deference	700000		
TP number	TP_203_031	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_c	of_ACM/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Media head	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 header authorizing backward early media is mapped into the Backward call indicator present in the ACM:				
	Optional backward call indic In-band information indi				
		or an appropriate patterr	n is now available		
ISUP Parameter values	ACM: Optional backward call indicators				
	In-band information indicator				
	in-band information or an appropriate pattern is now available"				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments	Progress Information 'In-band i	nformation or an appropr	iate pattern is now available'		
Message flows	Mg MGCF ISUP				
_	IAM →	→	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	183 Session Progress		
	Apply post test routine				

TP number	TP_203_032	Reference	7.2.3.2.5.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Media head	der in 181 into Optional bac	kward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded and the P-Early-Media authorizing backward early media is mapped into the Backward call indicator present in the ACM:  Optional backward call indicators In-band information indicator  • in-band information or an appropriate pattern is now available				
ISUP Parameter values	ACM: Optional backward call indicators In-band information indicator in-band information or an appropriate pattern is now available"				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments	Progress Information 'In-band in	nformation or an appropriat	e pattern is now available'		
Message flows	Mg MGCF ISUP				
	IAM → INVITE				
	← 100 Trying				
	ACM ←	<b>←</b> 1	81 Call is Being Forwarded		
	Apply post test routine				

TP number	TP_203_033	Reference	7.2.3.2.5.4			
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 1 in 180 into the Access Transport Parameter					
Test Purpose			KML ProgressIndicator is present,			
	the value 1 is mapped into the Access Transport Parameter containing the Progress					
	Indicator value 1 in the ACM:					
		Access Transport Parameter				
	Progress Indicator					
	<ul> <li>Progress Descrip</li> </ul>	tion='0000001'				
ISUP Parameter values	ACM: Access Transport	ACM: Access Transport				
	Progress Indicator					
	Progress Desc	ription='0000001'				
SIP Parameter values	180:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescripti					
Comments	Progress Information: 'Call is	not end-to-end ISDN: furth	ner call progress information may			
	be available in-band'					
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	Apply post test routine					

TP number	TP_203_034	Reference	7.2.3.2.5.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML 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 Parameter containing the Progress			
	Indicator value 2 in the ACM:			
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description='0</li> </ul>	000010'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descri	otion='0000010'		
SIP Parameter values	180:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription			
Comments	Progress Information: 'Destination address is non-ISDN'			
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	ACM ←	<del>-</del>	180 Ringing	
		Apply post test routin	e	

TP number	TP_203_035	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	PSTN XML ProgressIndicator 7	in 180 is not mapped into th	e Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present, the value 7 is not mapped into the Access Transport Parameter in the ACM				
ISUP Parameter values	<b>ACM:</b> No Access Transport Pa	rameter present			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	Mg MGCF ISUP				
	IAM →	→ IN\	/ITE		
	← 100 Trying				
	ACM ←	<b>←</b> 180	) Ringing		
	Apply post test routine				

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

TP number	TP 203 037	Reference	7.2.3.2.5.4		
			7.2.3.2.5.4		
TSS reference		ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/				
Test Purpose name		Mapping of PSTN XML ProgressIndicator 1 in 183 into the Access Transport Parameter			
Test Purpose		Ensure that on receipt of a 183 Session Progress and the P-Early-Media header and PSTN			
	XML ProgressIndicator is present, the value 1 is mapped into the Access Transport				
	Parameter containing the Prog	ress Indicator value 1 in th	ne ACM:		
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description</li> </ul>	n='0000001'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Description='0000001'				
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> <b>0000001</b> <			
Comments			er call progress information may		
	be available in-band'				
Message flows	Mg MGCF ISUP				
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←		183 Session Progress		
	Apply post test routine				
	Apply post test routile				

TP number	TP_203_038	Reference	7.2.3.2.5.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9			
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 183 into th	ne 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 pres	ent, the value 2 is mapped	l into the Access Transport	
	Parameter containing the Prog	ress Indicator value 2 in th	ne ACM:	
	Access Transport Parameter			
	Progress Indicator			
	<ul> <li>Progress Description</li> </ul>	n='0000010'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descri			
SIP Parameter values	183: P-Early-Media: 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 →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
	ACM ←	<b>←</b>	183 Session Progress	
		Apply post test routing	e	

TP number	TP_203_039	Reference	7.2.3.2.5.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9		
Test Purpose name	PSTN XML ProgressIndicator 7	in 183 is not mapped into	the Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is present, the value 7 is not mapped into the Access Transport Parameter in the ACM			
ISUP Parameter values	<b>ACM:</b> No Access Transport Pa	arameter present		
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000111<			
Comments	Progress Information: value not	t specified. Meaning 'termir	nating user is ISDN'	
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	NVITE	
		<b>←</b>	100 Trying	
	ACM ←	<b>←</b>	183 Session Progress	
	Apply post test routine			

TP number	TP_203_040	Reference	7.2.3.2.5.4		
TSS reference	ISUP-SIP/Basic call/Sending_o	of_ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/	/9			
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 8 in 183 into the	Access Transport Parameter		
Test Purpose			P-Early-Media header and PSTN		
	XML ProgressIndicator is pres				
	Parameter containing the Prog	ress Indicator value 8 in the	ACM:		
	Access Transport Parameter				
	Progress Indicator				
	<ul> <li>Progress Description</li> </ul>	on='0001000'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri				
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information 'In-band				
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b> II	NVITE		
		<b>←</b> 1	00 Trying		
	ACM ←	<b>←</b> 1	83 Session Progress		
		Apply post test routine			

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

TP number	TP_204_001	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_	of_CPG/			
Selection criteria					
Test Purpose name	A CPG is sent when a 180 is	received and a ACM was se	ent before		
Test Purpose	Ensure that on receipt of a 18	0 Ringing a CPG message	is sent when an ACM was sent		
	before				
ISUP Parameter values	<b>ACM:</b> BCi Called party status				
	<b>CPG:</b> Event indication=ALER	RTING			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	Ti/w1 started			
	ACM ←	Ti/w1 expired →	INVITE		
		<b>←</b>	100 Trying		
	CPG ←	<b>←</b>	180 Ringing		
	Apply post test routine				

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

TP number	TP 204 003	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending_o	f_CPG/	•			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is not authorized if	no P-Early-Media header is p	resent 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 → 1	Ti/w1 started				
	CPG ←		TTE Ringing			
	ringing tone Apply post test routine					

TP number	TP_204_004		Reference		7.2.3.2.6	3
TSS reference	ISUP-SIP/Basic call/S	Sending_o	of_CPG/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is not aut	thorized i	f P-Early-Media h	eader d	oes not authori	ze early media in the
Test Purpose	Ensure that on receipt of a 180 Ringing a CPG is sent. If the 180 Ringing contains a P-Early-Media header not authorizing early media, the SUT initiates sending of awaiting answer indication					
ISUP Parameter values						
SIP Parameter values	180: P-Early-Media	: inactive	!			
Comments						
Message flows	<b>Mg</b> IAM	<b>→</b>	MGCF Ti/w1 started			ISUP
	ACM	<b>←</b>	Ti/w1 expired	<b>→</b>	INVITE	
	CPG	<b>←</b>		<b>←</b>	180 Ringing	
	ringing tone					
	Apply post test routine					

TP number	TP_204_005	Reference	7.2.3.2.6				
TSS reference	ISUP-SIP/Basic call/Ser	nding_of_CPG/					
Selection criteria	PICS 6.2.1/9						
Test Purpose name	Early media is authorize	ed if P-Early-Media header au	thorize early media in the 180				
Test Purpose	P-Early-Media header a	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: s	endonly					
Comments							
Message flows	<b>Mg</b> IAM	MGCF → Ti/w1 started	ISUP				
	ACM CPG	← Ti/w1 expired ←	► INVITE - 180 Ringing				
	early media  Apply post test routine						

TP number	TP_204_006	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending	_of_CPG/			
Selection criteria	PICS 6.2.1/14				
Test Purpose name	The SUT has the knowledge answer indication is not gene	that the call is transited to a PST grated	N 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 →	Ti/w1 started			
	ACM ←	Ti/w1 expired → INV ← 100	TE Trying		
	CPG ← early media	6	Ringing early media		
		Apply post test routine			

TP number	TP_204_007	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sen	ding_of_CPG/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is authorized	d if P-Early-Media header aut	horize early media in the 183		
Test Purpose			PG is sent. If the 183 Session		
			g 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	<b>→</b> →	INVITE		
	ACM	<del></del>	180 Ringing		
	CPG	<del></del>	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	nding_of_CPG/			
Selection criteria	PICS 6.2.1/9				
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	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	CPG	<b>←</b>	<b>←</b>	181 Call is Being Forwarded	
	early media early media				
	Apply post test routine				

TP number	TP_204	1_009	Reference	7.2.3.2.6		
TSS reference	ISUP-S	IP/Basic call/Sending_of	f_CPG/			
Selection criteria	PICS 6.	.2.1/9				
Test Purpose name		IT change the authorizat d in 180	ion of early media as ind	licated in the P-Early-Media		
Test Purpose	through	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		P-Early-Media: inactive P-Early-Media: sendonly	,			
Comments						
Message flows	IAM ACM CPG	Mg  ← ringing tone ← early media	MGCF  ←  Apply post test routin	ISUP INVITE 183 Session Progress 180 Ringing early media		
			Apply post test routil	ic .		

TP number	TP_204_010	Reference	!	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic	call/Sending_of_CPG/					
Selection criteria	PICS 6.2.1/9						
Test Purpose name	The SUT change received in 180	the authorization of early	media as in	dicated in the P-Early-Media			
Test Purpose	authorization of e	Ensure that the SUT initiates the sending of awaiting answer indication and removes authorization of early media if the P-Early-Media header indicates <b>no authorization</b> of early media received in the 180 Ringing and early media was authorized before					
ISUP Parameter values							
SIP Parameter values		ledia: sendonly ledia: inactive					
Comments	j						
Message flows	IAM ACM early I	<b>←</b> ringing tone	F  +  const test rout	ISUP INVITE 183 Session Progress early media 180 Ringing ine			
		дрріў ро	ost tost rout	III C			

TP number	TP_204_011	Reference	7.2.3.2.6.1			
TSS reference	ISUP-SIP/Basic cal	I/Sending_of_CPG/	·			
Selection criteria	PICS 6.2.1/5 AND F	PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN X	(ML ProgressIndicator 1 in 18	3 into ATP in the CPG			
Test Purpose	Ensure that on rece	eipt of a PSTN XML Progress	ndicator value 1 in a 183 Session			
	Progress, a CPG is	sent and an Access Transpo	rt Parameter is present containing a			
	Progress Indicator #	<b>#1</b>				
ISUP Parameter values	CPG: Access Tran	sport				
	Progress	Indicator				
	Progr	ress Description='0000001'				
SIP Parameter values	183: P-Early-Med	183: P-Early-Media: sendonly				
	xml version="1.0"</th <th>" encoding="utf-8"?&gt;</th> <th></th>	" encoding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	Progress	Description>000001<				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 180 Ringing			
	CPG	<b>←</b>	← 183 Session Progress			
		Apply post tes	t routine			

TP number	TP_204_012	Reference	7.2.3.2.6.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 183 into ATP i	n the CPG	
Test Purpose	Ensure that on receipt of a PST			
	Progress, a CPG is sent and a	n Access Transport Paramete	is present containing a	
	Progress Indicator #2			
ISUP Parameter values	CPG: Access Transport			
	Progress Indicator			
	Progress Descrip			
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>000010<		
Comments				
Message flows	Mg MGCF ISUP			
	IAM →	→ INV	ITE	
	ACM ←	<b>←</b> 180	Ringing	
	CPG ←	<b>←</b> 183	Session Progress	
		Apply post test routine	_	

TP number	TP 204 013	Reference	7.2.3.2.6			
TSS reference	ISUP-SIP/Basic call/Sending	_				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.	1/9				
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 4 in 183 into	ATP in the CPG			
Test Purpose	Ensure that on receipt of a P	STN XML ProgressIndicate	or value 4 in a 183 Session			
-	Progress, a CPG is sent and	an Access Transport Para	meter is present containing a			
	Progress Indicator #4	·				
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
		ription='0000100'				
SIP Parameter values	183: P-Early-Media: sendo	g				
		xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	on>000100/				
Comments	1 TogressDescription	717000100\				
	Ma	MCCE	ICUD			
Message flows	<u> </u>	Mg MGCF ISUP				
	IAM -	<b>→</b>	INVITE			
	ACM ←	←	180 Ringing			
	CPG ←	<b>←</b>	183 Session Progress			
		Apply post test routi	ne			

TP number	TP_204_014	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9			
Test Purpose name	No mapping of PSTN XML Pro-	gressIndicator 7 in 183 into	ATP in the CPG		
Test Purpose	Ensure that on receipt of a PS1				
	Progress, a CPG is sent and no	Access Transport Parame	eter is present containing a		
	Progress Indicator #7				
ISUP Parameter values	CPG: Access Transport not pr	esent			
SIP Parameter values	183: P-Early-Media: sendonly	183: P-Early-Media: sendonly			
	xml version="1.0" encoding=</th <th>"utf-8"?&gt;</th> <th></th>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000111<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b> II	NVITE		
	ACM ←	<b>←</b> 1	80 Ringing		
	CPG ←	<b>←</b> 1	83 Session Progress		
	Apply post test routine				

TP number	TP_204_015	Reference	7.2.3.2.6	
TSS reference	ISUP-SIP/Basic call/Sending_c	of_CPG/	•	
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 183 into E	vent information in the CPG	
Test Purpose	Ensure that on receipt of a PST			
	Progress, a CPG is sent and E	vent information paramete	er is set to 'In-band information or	
	appropriate pattern is now avai	lable'		
ISUP Parameter values	CPG: Event information= In-ba	and information or appropi	riate pattern is now available	
SIP Parameter values	183: P-Early-Media: sendonly			
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0001000<			
Comments				
Message flows	Mg MGCF ISUP			
	IAM →	<b>→</b>	INVITE	
	ACM ←	<b>←</b>	180 Ringing	
	CPG ←	<b>←</b>	183 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 6.2.1/5 AND PICS 6.2.1/9				
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				
	Progress, a CPG is sent and				
	Progress Indicator #4 when in		before a PSTN XML		
	ProgressIndicator value 1 or 2	2 was present			
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
		ription='0000100'			
SIP Parameter values	180: P-Early-Media: sendor				
	<pre><?xml version="1.0" encoding</pre></pre>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4	n> 000001 <			
	ProgressDescription>0000001<				
	ProgressDescription>0000010<				
	1 10g10002 0001p10112 000010 1				
	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> <b>0000111</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	CPG ←	<b>←</b>	183 Session Progress		
		Apply post test routi	ne		

TP number	TP 204 017	Reference	7.2.3.2.6.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/				
		<u> </u>			
Selection criteria	PICS 6.2.1/5 AND PIC	· ·-·			
Test Purpose name	Mapping of PSTN XML	ProgressIndicator 1 in 180 in	to ATP in the CPG		
Test Purpose	Ensure that on receipt	of a PSTN XML ProgressIndic	cator 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 Transpo	ort	•		
	Progress Inc				
		s Description='0000001'			
SIP Parameter values	180:				
on randinotor values	xml version="1.0" er</th <th>ocoding="uff 9"2&gt;</th> <th></th>	ocoding="uff 9"2>			
	PSTN	icoding= uti-6 !>			
	_				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	→ Ti/w1 started			
	ACM	← Ti/w1 expired -	→ INVITE		
	CPG	•			
		Apply post test ro	utine		

TP number	TP_204_018	Reference	7.2.3.2.6.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into ATP ir	n the CPG	
Test Purpose		TN XML ProgressIndicator valu		
	•	ort Parameter is present contair	ning a Progress Indicator #2	
ISUP Parameter values	CPG: Access Transport			
	Progress Indicator			
	Progress Descri	ption='0000010'		
SIP Parameter values	180:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000010<			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	Ti/w1 started		
	ACM ←	Ti/w1 expired → INVI	TE	
	CPG ←	•	Ringing	
	Apply post test routine			

TP number	TP_204_019	Reference	7.2.3.2.6		
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 4 in 180 into ATP ir	n the CPG		
Test Purpose	Ensure that on receipt of a PST	TN XML ProgressIndicator valu	ie 4 in a 180 Ringing a CPG		
	is sent and an Access Transpo	rt Parameter is present contair	ning a Progress Indicator #4		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000100'			
SIP Parameter values	180:				
		<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000100<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	Γi/w1 started			
	ACM ←	Γi/w1 expired → INVI	TE		
	CPG ←	<b>←</b> 180	Ringing		
	Apply post test routine				

TP number	TP_204_020	Reference	7.2.3.2.6	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	No mapping of PSTN XML Pr	ogressIndicator 7 in 183 into AT	TP in the CPG	
Test Purpose	Progress, a CPG is sent and	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 183 Session 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:			
	xml version="1.0" encoding</th <th>g="utf-8"?&gt;</th> <th></th>	g="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000111<			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	Ti/w1 started		
	ACM ←	Ti/w1 expired → INV ← 180	ITE Ringing	
		Apply post test routine	5 5	

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_o	of_CPG/		
Selection criteria	PICS 6.2.1/5			
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-b	and information or appropriate	pattern is now available	
SIP Parameter values	183:			
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0001000<			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	Ti/w1 started		
	ACM ←	Ti/w1 expired → INVI	TE	
	CPG ←	•	Ringing	
		Apply post test routine	3	

TP number	TP_204_022	Reference	7.2.3.2.6	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9			
Test Purpose name	Mapping of PSTN XML ProgressIndicator 7 in 180 into ATP in the CPG			
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator	value 7 in a 180 Ringing, a CPG	
			ntaining a Progress Indicator #4	
		ed before a PSTN XML Pr	ogressIndicator value 1 or 2 was	
	present			
ISUP Parameter values	CPG: Access Transport			
	Progress Indicator			
	Progress Descrip			
SIP Parameter values	183: P-Early-Media: sendonl			
	<pre><?xml version="1.0" encoding=</pre></pre>	="utt-8"'?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4	> 000001 -		
	ProgressDescription>0000001<			
	ProgressDescription>0000010<			
	. 10g. 0002 0001p110112 00000 10 1			
	180:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>0000111<		
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	INVITE	
	ACM ←	<b>←</b>	183 Session Progress	
	CPG ←		180 Ringing	
		Apply post test routine	9	

TP number	TP_204_023	Reference	7.2.3.2.7	
TSS reference	ISUP-SIP/Basic call/Sendir	g_of_CPG/		
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Mapping of P-Early-Media	neader into Event information	n parameter in CPG	
Test Purpose			P-Early-Media header is present	
	authorizing early media, a	CPG is sent. The Event inforr	mation parameter is set to 'In-band	
	information or appropriate	attern is now available'	•	
ISUP Parameter values	CPG: Event information=	n-band information or approp	oriate pattern is now available	
SIP Parameter values	183: P-Early-Media: send	lonly		
Comments	·	•		
Message flows	Mg	MGCF	ISUP	
-	IAM →	Ti/w1 started		
	ACM ←	Ti/w1 expired →	INVITE	
	CPG ←	<b>←</b>	183 Session Progress	
	Apply post test routine			

TP number	TP_204_024	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	NOT PICS 6.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR speech or 3,1 kHz audio			
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.  Ensure that on receipt of a 180 Ringing response, a CPG is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = subscriber free (01)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)  Echo control device indicator = incoming echo control device included (1)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz			
	ACM: Backward call indicator  Called party's status indicator = no indication			
SIP Parameter values	Called party's	Status indicator = no indica	alion	
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM	→ Ti/w1 started	,,,,,	
	ACM	← Ti/w1 expired	→ INVITE	
	CPG	<b>←</b>	← 180 Ringing	
	Apply post test routine			

TP number	TP 204 025	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 180 Ringing response, an CPG is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = subscriber free (01)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = interworking encountered (1)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part not used all the way (0)  ISDN access indicator = terminating access non-ISDN (0)  Echo control device indicator = incoming echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted  ACM: Backward call indicator  Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	Mg IAM →	MGCF Ti/w1 started	ISUP	
	ACM ← CPG ←		NVITE 80 Ringing	
	Apply post test routine			

TP number	TP_204_026	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/18			
Test Purpose name	180 received, coding of Backward call indicator in CPG TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 180 Ringing response, an CPG is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = subscriber free (01)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)  Echo control device indicator = incoming echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted  ACM: Backward call indicator			
	Called party's status indicator = no indication			
SIP Parameter values				
Comments	D4	МОСТ	ICUD	
Message flows	Mg IAM	MGCF  → Ti/w1 started	ISUP	
	IAW	11/W1 Started		
		← Ti/w1 expired ←	→ INVITE ← 180 Ringing	
	Apply post test routine			

TP number	TP 204 027	Reference	7.2.3.2.7.4	
TSS reference	ISUP-SIP/Basic call/Sending_of_CPG/			
Selection criteria	<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 = 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	Canca party a status	maioator – no maioation		
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	Γi/w1 started		
	ACM ← CPG	Fi/w1 expired → ← Apply post test routin	INVITE 180 Ringing ne	

## 6.1.2.5 Sending of the Answer Message (ANM)

TP number	TP_205_001	Refere	nce	7.2.3.2.8
TSS reference	ISUP-SIP/Basic call/Sending_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				
SIP Parameter values				
Comments				
Message flows	Mg	M	GCF	ISUP
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)
			<b>→</b>	ACK
	Apply post test routine			

TSS reference IS						
	or on bacic can conding	OT AINIM/	TP_205_002   Reference   7.2.3.2.8   ISUP-SIP/Basic call/Sending_of_ANM/			
Selection criteria INC	NOT PICS 6.2.1/18					
	200 OK received, coding of Backward call indicator in ANM TMR speech or 3,1 kHz audio					
	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received.					
	Ensure that on receipt of a 200 OK INVITE final response, an ANM is sent and the					
	Backward call indicator is set to the following values:					
•	Charge indicator = charge (10)					
•	Called party's status indicator = no indication (00)					
-	Called party's category indicator = no indication (00)					
-	End-to-end method indicator = no end-to-end method available (00)					
	<ul> <li>Interworking indicator = interworking encountered (1)</li> </ul>					
-	<ul> <li>End-to-end information indicator = no end-to-end information available (0)</li> </ul>					
-	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 IA	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz					
AC	ACM: Backward call indicator					
	Called party's status indicator = no indication					
SIP Parameter values 18	183: P-Early-Media: sendonly					
Comments						
Message flows	Mg	MGCF	ISUP			
IA	.M →	Ti/w1 started				
AC	CM ←	Ti/w1 expired →				
		<b>←</b>	183 Session Progress			
AA	NM ←	<b>+</b>	200 OK (INVITE)			
["		<b>→</b>	ACK			
	Apply post test routine					

TP number	TP_205_003	Reference	7.2.3.2.8	
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/			
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6.2.1/18			
Test Purpose name	200 OK received, coding of Backward call indicator in ANM TMR 64 kBit/s unrestricted			
Test Purpose		IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.		
	Ensure that on receipt of a 200 OK INVITE final response, an ANM is sent and the			
	Backward call indicator is set to	<u> </u>		
	<ul> <li>Charge indicator = charge</li> </ul>			
	<ul> <li>Called party's status indicate</li> </ul>			
	<ul> <li>Called party's category inc</li> </ul>			
		tor = no end-to-end method		
		terworking encountered (1)		
	<ul> <li>End-to-end information inc</li> </ul>	dicator = no end-to-end info	ormation available (0)	
	<ul> <li>ISDN user part/BICC indic</li> </ul>	ator = ISDN user part not u	used all the way (0)	
		erminating access non-ISD		
	• 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			
		indicator = no indication		
SIP Parameter values	183: P-Early-Media: sendonl	У		
Comments		11005	IOUR	
Message flows	Mg	MGCF	ISUP	
	IAM →	Ti/w1 started		
		<del>-</del> /	N N //TE	
	ACM ←		INVITE	
		<b>←</b>	183 Session Progress	
	ANM	<b>←</b> :	200 OK (INVITE)	
	ZINIVI		ACK	
		Apply post test routing		
	1	Apply post test routille		

TP number	TP_205_004	Reference	7.2.3.2.8		
TSS reference	ISUP-SIP/Basic call/Se	ISUP-SIP/Basic call/Sending_of_ANM/			
Selection criteria	PICS 6.2.4/2 AND PICS	PICS 6.2.4/2 AND PICS 6.2.1/18			
Test Purpose name	200 OK received, codir	200 OK received, coding of Backward call indicator in ANM TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 200 OK INVITE final response, an ANM is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)  Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted  ACM: Backward call indicator  Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media:				
Comments		-			
Message flows	Mg IAM	MGCF → Ti/w1 started	ISUP		
	ACM	← Ti/w1 expired	<ul><li>→ INVITE</li><li>← 183 Session Progress</li></ul>		
	ANM ← 200 OK (INVITE)  → ACK  Apply post test routine				

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

	I=5	In .	I		
TP number	TP_205_006	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 1 in 200 OK in	nto ATP in the ANM		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in a 200 OK INVITE, an				
	ANM is sent and an Access Transport Parameter is present containing a Progress				
	Indicator #1				
ISUP Parameter values	ANM: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000001'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> <b>0000001</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
			3 3		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routing			

TP number	TP_205_007	Reference		7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN X	ML ProgressIndicator 2 i	n 200 OK into A	TP in the ANM		
Test Purpose		pt of a PSTN XML Progr Access Transport Paran		ue 2 in a 200 OK INVITE, an containing a Progress		
ISUP Parameter values	ANM: Access Trans	•				
	Progress					
		ess Description='000001	0'			
SIP Parameter values	200 OK:					
	xml version="1.0"</th <th>encoding="utf-8"?&gt;</th> <th></th> <th></th>	encoding="utf-8"?>				
	PSTN					
	ProgressIndicato					
	ProgressOcte					
	Progressl	Description>000010<				
Comments						
Message flows	Mg	MGCF		ISUP		
	IAM	<b>→</b>	→ INV	ITE		
			<b>←</b> 100	Trying		
	ACM	<b>←</b>		Ringing		
	ANM	<b>←</b>		OK (INVITE)		
			→ ACł	<		
		Apply pos	t test routine			

TP number	TP_205_008	Refere	nce	7.2.3.2.9.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN X	ML ProgressIndica	itor 4 in 200 OK in	to ATP in the ANM	
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 200 OK INVITE, an				
	ANM is sent and an Access Transport Parameter is present containing a Progress				
	Indicator #4				
ISUP Parameter values	ANM: Access Tran	•			
	•	Indicator			
	Ŭ	ess Description='0	000100'		
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicate				
	ProgressOct				
	Progress	Description>00001	00<		
Comments					
Message flows	Mg		GCF	ISUP	
	IAM	<b>→</b>	<b>→</b>	INVITE	
			+	100 Trying	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	ANM	<b>←</b>	+	200 OK (INVITE)	
			<b>→</b>	ACK	
		Appl	y post test routin	ie	

TP number	TP_205_009	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 5 in 200 OK in	nto ATP in the ANM		
Test Purpose			or value 5 in a 200 OK INVITE, an		
	ANM is sent and an Access Transport Parameter is present containing a Progress				
	Indicator #5				
ISUP Parameter values		lz audio, USI prime=unrest			
		ed, TMR prime = speech o	or 3,1 kHz audio		
	ANM: Access Transport				
	Progress Indicator				
		ription='0000101'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	on> <b>0000101</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routi	ne		

TP number	TP_205_010	Ref	ference	7.2.3.2.9.2	
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	No mapping of PS	No mapping of PSTN XML ProgressIndicator 7 in 200 OK into ATP in the ANM			
Test Purpose	Ensure that on reco ANM is sent and no Indicator #7. The B ISDN User Part ISDN User	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, an ANM is sent and <b>no</b> Access Transport Parameter is present containing a Progress Indicator #7. The Backward call indicator is set to the following values:  ISDN User Part indicator  ISDN User Part used all the way  ISDN access indicator			
	Interworking inc				
			red		
ISUP Parameter values  SIP Parameter values	ANM: Access Trai Backward c ISDN Us ISDN ISDN ac Tern Interwor no ii  200 OK: xml version="1.0" ProgressIndica: ProgressOc</th <th colspan="4"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
Comments	Progres	sDescription>00	00111<		
Message flows	Mg		MGCF	ISUP	
	IAM	<b>→</b>	- <del>-</del>		
		-	- -		
	ACM	<b>←</b>	•	, 0	
	ANM	<b>←</b>	<del>&lt;</del>	ACK	
		Α	pply post test rou	utine	

TP number	TP_205_011	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML	HighLayerCompatibility	y in 200 OK into ATP in ANM		
Test Purpose		Ensure that on receipt of 200 OK INVITE and a PSTN XML HighLayerCompatibility			
			ss Transport Parameter is present		
	containing a High layer compatibility IE and the value is set to the value HLC_VA as				
ISUP Parameter values	indicated in table 6.1.2.5-1				
ISUP Parameter values	ANM: Access Transpo				
	High layer co	ompatibility er characteristics identifi	ination – HI C VA		
SIP Parameter values	200 OK:	er characteristics identili	ication = HLC_VA		
Sir raiameter values	PSTN XML MIME body	,			
	xml version="1.0" en</th <th></th> <th></th>				
	PSTN	looding ati o .>			
	HighLayerCompatib	oility			
	HLOctet3				
	CodingStandard>00<				
	Interpretation				
		Method>01<			
	HLOctet4				
_	HighLayerCharacteristics> <b>HLC_VA</b> <				
Comments		моог	IOUD		
Message flows	Mg	MGCF	ISUP		
	IAM	<b>→</b>	→ INVITE		
	A ON 4		← 100 Trying		
	ACM	<b>←</b>	← 180 Ringing		
	ANM	<b>←</b>	← 200 OK (INVITE)		
			→ ACK		
		Apply post to			

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

HLC_VA	XML HighLayerCharacteristic	DSS1 High layer characteristics identification
HLC_VA_1	'000001'	Telephony
HLC_VA_2	'0000100'	Facsimile Group 2/3
HLC_VA_3	'0100001'	Facsimile Group 4 Class I
HLC_VA_4	'0100100'	Facsimile service Group 4, Classes II and III
HLC_VA_5	'0110010'	Syntax based Videotex
HLC_VA_6	'0110011'	International Videotex interworking via gateways or interworking units
HLC_VA_7	'0110101'	Telex service
HLC_VA_8	'1000010'	FTAM application
HLC VA 9	'1100000'	Videotelephony

TP number	TP_205_012	Reference	7.2.3.2.9.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Bearer	Capability in 200 OK into	ATP in ANM		
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML BearerCapability element is				
			eter is present containing a Bearer		
	Capability IE and the value is				
ISUP Parameter values	IAM: USI=speech or 3,1 kHz				
		d, TMR prime = speech or	r 3,1 kHz audio		
	ANM: Access Transport				
	Bearer Capability				
		nsfer Capability = ITC_value	ue		
SIP Parameter values	200 OK:	W . ( O . O .			
	<pre><?xml version="1.0" encoding:</pre></pre>	="utf-8"?>			
	PSTN Page 10 and bility				
	BearerCapability BCoctet3				
	CodingStandard>00<				
	3	Capability> ITC value <			
	BCoctet4	Capability>11C_value <			
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
			3 3		
	ANM ←	<b>←</b>	200 OK (INVITE)		
		<b>→</b>	ACK		
		Apply post test routing	ne		

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

ITC_value	XML InformationTransferCapability	BC Information transfer capability
VA_01	'00000'	speech
VA_02	'10000'	3,1 kHz audio
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 cal	ISUP-SIP/Basic call/Sending_of_ANM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN >	ML BearerCapability into Tran	smission medium used parameter			
Test Purpose			ability element in a 200 OK INVITE a			
			in the sent ANM message. The value of			
			ie TMU_VA_BC is mapped into the value			
		n Medium Used parameter TMI	J_VA_I MU as described in			
ICUD Devementes values	table 6.1.2.5-3	an 2.4 ld la accidia LICI agiana	variated distributions with T/A			
ISUP Parameter values	•	•	unrestricted digital info with T/A,			
	ANM: TMU:	t/s preferred, TMR prime = spe	eech or 3,1 kmz audio			
	TMU_VA	A TMII				
SIP Parameter values	200 OK:	<u></u>				
on randingtor variable		" encoding="utf-8"?>				
	PSTN	ence and grant of the				
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability> <b>TMU_VA_BC</b> <					
Commonto						
Comments Message flows	Ma	MGCF	ISUP			
Wessage nows	Mg IAM	MGCF →	→ INVITE			
	IAW	7	← 100 Trying			
	ACM	<b>←</b>	€ 180 Ringing			
	AOIVI	•	100 Kinging			
	ANM	<b>←</b>	← 200 OK (INVITE)			
		_	→ ACK			
		Apply post test				

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

TMU_VA	PSTN XML BearerCapability TMU_VA_BC	TMU value TMU_VA_TMU			
TMU_VA_01	'00000'	'speech'			
TMU_VA_02	'10000'	'3,1 kHz audio'			
TMU_VA_03	'10001'	No mapping (see note 1)			
TMU_VA_04	t 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	Referer	nce	7.2.3.2.11
TSS reference	ISUP-SIP/Basic call/	/Sending_of_CON/		·
Selection criteria				
Test Purpose name	Sending of CON me	ssage after 200 OK	was received	
Test Purpose	Ensure that on recei	pt of a 200 OK INV	ITE and no ACM	was sent, a CON message is sent
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	Mg	MC	GCF	ISUP
	IAM	<b>→</b>	<b>→</b>	INVITE
			<b>←</b>	100 Trying
	CON	<b>←</b>	<b>←</b>	200 OK (INVITE)
			<b>→</b>	ACK
	Apply post test routine			

TP number	TP_206_002	Refer	ence	7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	NOT PICS 6.2.1/	NOT PICS 6.2.1/18				
Test Purpose name	200 OK received,	coding of Backward	I 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	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
	CON	<b>←</b>	<b>←</b>	200 OK (INVITE)		
		_	<b>→</b>	ACK		
		Apply post test routine				

TP number	TP_206_003	Reference	7.2.3.2.11.1			
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	PICS 6.2.4/2 AND NOT PICS					
Test Purpose name	200 OK received, coding of Ba	ackward call indicator in CON	TMR 64 kBit/s unrestricted			
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 200 OK INVITE final response, a CON is sent and the Backward call indicator is set to the following values:  • Charge indicator = charge (10)  • Called party's status indicator = no indication (00)  • Called party's category indicator = no indication (00)  • End-to-end method indicator = no end-to-end method available (00)  • Interworking indicator = interworking encountered (1)  • End-to-end information indicator = no end-to-end information available (0)  • ISDN user part/BICC indicator = ISDN user part not used all the way (0)  • ISDN access indicator = terminating access non-ISDN (0)  • Echo control device indicator = Incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted CON: Backward call indicator Called party's status indicator = no indication					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	IAM					
		Apply post test routine				

TP number	TP_206_004	Reference	7.2.3.2.11.1	
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/			
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.	1/18		
Test Purpose name			NM TMR 64 kBit/s unrestricted	
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received.  Ensure that on receipt of a 200 OK INVITE final response, an CON is sent and the Backward call indicator is set to the following values:  Charge indicator = charge (10)  Called party's status indicator = no indication (00)  Called party's category indicator = no indication (00)  End-to-end method indicator = no end-to-end method available (00)  Interworking indicator = no interworking encountered (0)  End-to-end information indicator = no end-to-end information available (0)  ISDN user part/BICC indicator = ISDN user part used all the way (1)  ISDN access indicator = terminating access ISDN (1)  Echo control device indicator = Incoming echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted CON: Backward call indicator Called party's status indicator = no indication			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	INVITE	
		<del>_</del>	100 Trying	
	CON ←	<del>-</del>	200 OK (INVITE)	
		<b>→</b>	ACK	
	Apply post test routine			

TP number	TP_206_005	Refe	rence	7.2.3.2.11.1		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria		g				
Test Purpose name	200 OK received, co	ding of Backwai	d call indicator in C	ON HLC "Facsimile Group 2/3"		
Test Purpose	IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility= Facsimile Group 2/3 received. Ensure that on receipt of a 200 OK INVITE final response, 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	<b>→</b>	<b>→</b>	INVITE 100 Trying		
	CON	<b>←</b>	<b>←</b>	200 OK (INVITE) ACK		
		Ap	ply post test routi	ne		

TP number	TP_206_006	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 200 OK into A	TP in the CON		
Test Purpose	Ensure that on receipt of a PST	TN XML ProgressIndicator va	lue 1 in a 200 OK INVITE, a		
	CON is sent and an Access Tra	ansport Parameter is present	containing a Progress		
	Indicator #1				
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000001'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ IN	/ITE		
		← 100	) Trying		
	CON ←	← 200	OK (INVITE)		
		<b>→</b> AC	K		
		Apply post test routine			

TP number	TP_206_007	Reference	7.2.3.2.11.2			
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN	XML ProgressIndicator 2 in 200	OK into ATP in the CON			
Test Purpose	Ensure that on red	eipt of a PSTN XML ProgressIn	dicator value 2 in a 200 OK INVITE, a			
	CON is sent and a	in Access Transport Parameter	s present containing a Progress			
	Indicator #2					
ISUP Parameter values	CON: Access Tra	insport				
	Progres	ss Indicator				
	Pro	gress Description='0000010'				
SIP Parameter values	200 OK:					
	xml version="1.</th <th>0" encoding="utf-8"?&gt;</th> <th></th>	0" encoding="utf-8"?>				
	PSTN	PSTN				
	ProgressIndicator					
	ProgressOctet4					
	Progres	ProgressDescription>0000010<				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
	CON	<b>←</b>	← 200 OK (INVITE)			
			→ ACK			
	Apply post test routine					

TP number	TP_206_008	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 4 in 200 OK into A	TP in the CON		
Test Purpose	Ensure that on receipt of a PST CON is sent and an Access Tra				
	Indicator #4	ansport i diameter is present (	Sontaining a 1 Togress		
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000100'			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding=</th <th colspan="4"><pre><?xml version="1.0" encoding="utf-6"?></pre></th>	<pre><?xml version="1.0" encoding="utf-6"?></pre>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000100<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ INV	ITE		
		<b>←</b> 100	Trying		
	CON ←		OK (INVITE)		
		→ ACI			
	Apply post test routine				

TP number	TP_206_009	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 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 Tr	ansport Parameter is preser	t containing a Progress		
	Indicator #5				
ISUP Parameter values		audio, USI prime=unrestrict			
		d, TMR prime = speech or 3	,1 kHz audio		
	CON: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000101'			
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
_	ProgressDescription>0000101<				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →		IVITE		
		<b>←</b> 10	00 Trying		
	CON <del>C</del>	<b>←</b> 20	00 OK (INVITE)		
		<b>→</b> A	CK		
		Apply post test routine			

TP number	TP_206_010	Reference	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sending		7.2.0.2.11.2		
Selection criteria	PICS 6.2.1/5				
Test Purpose name		pareselpdicator 7 in 200 OK	into ATP in the CON		
Test Purpose	No mapping of PSTN XML ProgressIndicator 7 in 200 OK into ATP in the CON  Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, a				
lest i dipose	CON is sent and <b>no</b> Access Transport Parameter is present containing a Progress				
	Indicator #7. The Backward call indicator is set to the following values:				
	ISDN User Part indicator	in indicator is set to the follow	wing values.		
	ISDN User Part used a	all the way			
	ISDN access indicator				
	Terminating access n	on-ISDN			
	Interworking indicator				
	no interworking enco	untered			
ISUP Parameter values	CON: Access Transport not p				
	Backward call indicator				
	ISDN User Part indi	cator			
	ISDN User Part	used all the way			
	ISDN access indicator				
	Terminating access non-ISDN				
	Interworking indicator				
	no interworking encountered				
SIP Parameter values	200 OK:				
	xml version="1.0" encoding=</th <th>="utf-8"?&gt;</th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4	o. 0000111 c			
Comments	ProgressDescription>0000111<				
Message flows	Mg	MGCF	ISUP		
Wessage nows	IAM →		NVITE		
	11/ 11/11		00 Trying		
	CON ←		00 OK (INVITE)		
			CK		
	Apply post test routine				

TD 000 011	-			7000110	
				7.2.3.2.11.2	
	call/Sending_of_	_CON/			
PICS 6.2.1/5					
Mapping of PSTN	Mapping of PSTN XML HighLayerCompatibility 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 preser	element is present a CON is sent and a Access Transport Parameter is present containing				
a High layer com	patibility IE and	the value is so	et to the v	alue HLC_VA as indicated in	
table 6.1.2.5-1					
CON: Access Tr	ransport				
High la	ayer compatibilit	ty			
Hiç	gh layer charact	eristics identifi	cation = I	HLC_VA	
200 OK:					
PSTN XML MIME	E body				
xml version="1</th <th>I.0" encoding="ι</th> <th>utf-8"?&gt;</th> <th></th> <th></th>	I.0" encoding="ι	utf-8"?>			
PSTN	•				
HighLayerCo	HighLayerCompatibility				
HLOctet3	HLOctet3				
CodingStandard>00<					
Interpr	Interpretation>100<				
Prese	PresentationMethod>01<				
HLOctet4					
HighLa	ayerCharacteris	tics>HLC_VA	<		
Mg		MGCF		ISUP	
IAM	<b>→</b>		<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
CON ← 200 OK (INVITE)					
<b>→</b>				ACK	
1.5.1					
	PICS 6.2.1/5  Mapping of PSTN  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 MIME xml version="1 PSTN HighLayerCo HLOctet3 Coding Interpi Prese HLOctet4 HighLa  Mg IAM</th <th>ISUP-SIP/Basic call/Sending_of_PICS 6.2.1/5  Mapping of PSTN XML HighLayer Ensure that on receipt of 200 Okelement is present a CON is sensed a High layer compatibility IE and table 6.1.2.5-1  CON: Access Transport High layer compatibility High layer charact  200 OK: PSTN XML MIME body <?xml version="1.0" encoding="topst"> PSTN HighLayerCompatibility HLOctet3 CodingStandard&gt;00&lt; Interpretation&gt;100&lt; PresentationMethod&gt; HLOctet4 HighLayerCharacteris  Mg IAM</th> <th>ISUP-SIP/Basic call/Sending_of_CON/ PICS 6.2.1/5  Mapping of PSTN XML HighLayerCompatibility Ensure that on receipt of 200 OK INVITE and a element is present a CON is sent and a Access a High layer compatibility IE and the value is set table 6.1.2.5-1  CON: Access Transport High layer compatibility High layer characteristics identification  200 OK: PSTN XML MIME body <?xml version="1.0" encoding="utf-8"?> PSTN HighLayerCompatibility HLOctet3 CodingStandard&gt;00&lt; Interpretation&gt;100&lt; PresentationMethod&gt;01&lt; HLOctet4 HighLayerCharacteristics&gt;HLC_VA-  Mg MGCF  IAM  MGCF</th> <th>ISUP-SIP/Basic call/Sending_of_CON/ PICS 6.2.1/5  Mapping of PSTN XML HighLayerCompatibility in 200 C Ensure that on receipt of 200 OK INVITE and a PSTN X element is present a CON is sent and a Access Transpor a High layer compatibility IE and the value is set to the v table 6.1.2.5-1  CON: Access Transport High layer compatibility High layer characteristics identification = I 200 OK: PSTN XML MIME body <?xml version="1.0" encoding="utf-8"?> PSTN HighLayerCompatibility HLOctet3 CodingStandard&gt;00&lt; Interpretation&gt;100&lt; PresentationMethod&gt;01&lt; HLOctet4 HighLayerCharacteristics&gt;HLC_VA&lt;  Mg  MGCF IAM  MGCF IAM  MGCF</th>	ISUP-SIP/Basic call/Sending_of_PICS 6.2.1/5  Mapping of PSTN XML HighLayer Ensure that on receipt of 200 Okelement is present a CON is sensed a High layer compatibility IE and table 6.1.2.5-1  CON: Access Transport High layer compatibility High layer charact  200 OK: PSTN XML MIME body xml version="1.0" encoding="topst" PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod> HLOctet4 HighLayerCharacteris  Mg IAM	ISUP-SIP/Basic call/Sending_of_CON/ PICS 6.2.1/5  Mapping of PSTN XML HighLayerCompatibility Ensure that on receipt of 200 OK INVITE and a element is present a CON is sent and a Access a High layer compatibility IE and the value is set table 6.1.2.5-1  CON: Access Transport High layer compatibility High layer characteristics identification  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	ISUP-SIP/Basic call/Sending_of_CON/ PICS 6.2.1/5  Mapping of PSTN XML HighLayerCompatibility in 200 C Ensure that on receipt of 200 OK INVITE and a PSTN X element is present a CON is sent and a Access Transpor a High layer compatibility IE and the value is set to the v table 6.1.2.5-1  CON: Access Transport High layer compatibility High layer characteristics identification = I 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	Referer	ice	7.2.3.2.11.2		
TSS reference	ISUP-SIP/Basic call/Sending_of_CON/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN >	XML BearerCapabilit	y in 200 OK into AT	TP in CON		
Test Purpose				<ul> <li>BearerCapability element is</li> </ul>		
				r is present containing a Bearer		
	Capability IE and the	ne value is set to the	value ITC_value a	s indicated in table 6.1.2.5-1		
ISUP Parameter values	CON: Access Trar					
	Bearer C	Capability				
		mation Transfer Cap	ability = ITC_value	)		
SIP Parameter values	200 OK:					
	xml version="1.0</th <th>)" encoding="utf-8"?&gt;</th> <th>•</th> <th></th>	)" encoding="utf-8"?>	•			
	PSTN					
	BearerCapabilit	ty				
		BCoctet3				
	CodingStandard>00<					
	InformationTransferCapability> ITC_value <					
	BCoctet4					
	TransferMode>00<					
	Informat	ionTransferRate>10	000<			
Comments						
Message flows	Mg		SCF	ISUP		
	IAM	<b>→</b>	==	NVITE		
				00 Trying		
	CON	<b>←</b>	<b>←</b> 2	00 OK (INVITE)		
			<b>→</b> A	CK		
		Apply	post test routine			

TP number	TD 206 042	Reference	7.2.3.2.11			
	TP_206_013		1.2.3.2.11			
TSS reference		ISUP-SIP/Basic call/Sending_of_CON/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Bearer	Capability into Transmission	on medium used parameter			
Test Purpose	Ensure that on receipt of a PS Transmission Medium Used pa		element in a 200 OK INVITE a sent CON message. The value of			
			_VA_BC is mapped into the value			
	of the Transmission Medium U					
	in table 6.1.2.5-3					
ISUP Parameter values	IAM: USI=speech or 3,1 kHz	audio, USI prime=unrestri	cted digital info with T/A,			
	TMR=64 kbit/s preferre	d, TMR prime = speech or	3,1 kHz audio			
	CON: TMU:					
	TMU_VA_TMU					
SIP Parameter values	200 OK:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability> <b>TMU_VA_BC</b> <					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	CON ←		200 OK (INVITE)			
			ACK			
	Apply post test routine					

TP number	TP_206_014	Reference	7.2.3.2.11A		
TSS reference	ISUP-SIP/Basic call/Sending_	of_CON/			
Selection criteria	PICS 6.2.1/19				
Test Purpose name	Receipt of a reINVITE request	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&gt;</th><th></th></media>	source URL>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE1		
	ACM ←	<b>←</b>	180 Ringing		
	ANM <b>←</b>	<b>←</b>	200 OK INVITE		
		<b>→</b>	ACK		
		<b>←</b>	INVITE		
		<b>→</b>	200 OK INVITE2		
		<b>←</b>	ACK		
	media				
	Apply post test routine				

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

TP number	TP_207_001	Reference	7.2.3.2.12
TSS reference	ISUP-SIP/Basic call/Receipt_of	_4xx-5xx-6xx/	
Selection criteria			
Test Purpose name	Mapping of unsuccessful final r	esponses to ISUP/BICC	Release messages
Test Purpose	Ensure that on receipt of an un	successful final response	SIP_Response before an early
	dialogue is established, a Relea	ase message Cause valu	e REL_cause is sent on the
	ISUP/BICC leg of the connection	on. The mapping is accor	ding the table 6.1.2.7-1. The
	location value in the REL mess	age is set to 'network bey	ond interworking point'
ISUP Parameter values	REL: Cause = REL_cause		-
SIP Parameter values	SIP_Response		
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	REL ←	<b>←</b>	SIP_Response
	RLC →	<b>→</b>	ACK

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

SIP_Response_VA	←REL (cause code) REL_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	111 (protocol error, unspecified)	400 Bad Request
VA_02	127 (interworking unspecified)	401 Unauthorized
VA 03	127 (interworking unspecified)	402 Payment Required
VA_04	79 (Service or option not implemented, unspecified)	403 Forbidden
VA_05	1 (Unallocated number)	404 Not Found
VA_06	127 (interworking unspecified)	405 Method Not Allowed
VA_07	127 (interworking unspecified)	406 Not Acceptable
VA_08	127 (interworking unspecified)	407 Proxy authentication required
VA_09	102 (recovery on timer expiry)	408 Request Timeout
VA_10	22 (Number changed)	410 Gone
VA_11	127 (interworking unspecified)	413 Request Entity too long
VA_12	111 (protocol error, unspecified)	414 Request-URI too long
VA_13	127 (interworking unspecified)	415 Unsupported Media type
VA_14	111 (protocol error, unspecified)	416 Unsupported URI scheme
VA_15	79 (Service or option not implemented, unspecified)	417 Unknown Resource-Priority
VA_16	111 (protocol error, unspecified)	420 Bad Extension
VA_17	111 (protocol error, unspecified)	421 Extension required
VA_18	31 (Normal, unspecified)	422 Session Interval Too Small
VA_19	127 (interworking unspecified)	423 Interval Too Brief
VA_20	24 (call rejected due to ACR supplementary service)	433 Anonymity Disallowed.
VA_21	20 Subscriber absent	480 Temporarily Unavailable
VA_22	127 (interworking unspecified)	440 Max-Breadth Exceeded
VA_23	127 (interworking unspecified)	481 Call/Transaction does not exist
VA_24	127 (interworking unspecified)	482 Loop detected
VA_25	25 (Exchange routing error)	483 Too many hops
VA_26	28 (Invalid Number format)	484 Address Incomplete
VA_27	Cause value No. 1 (unallocated (unassigned) number)	485 Ambiguous
VA_28	17 (User busy)	486 Busy Here
VA_29	127 (Interworking unspecified) or not interworked	487 Request terminated
VA_30	50 (requested facility no subscribed)	488 Not acceptable here
VA_31	127 (interworking unspecified)	493 Undecipherable
VA_32	127 (interworking unspecified)	500 Server Internal error
VA_33	79 (service or option not implemented)	501 Not implemented
VA_34	27 (Destination out of order)	502 Bad Gateway
VA_35	127 (interworking unspecified)	503 Service Unavailable
VA_36	102 (Recovery on timer expiry)	504 Server timeout
VA_37	127 (interworking unspecified)	505 Version not supported
VA_38	127 (interworking unspecified)	513 Message too large
VA_39	127 (interworking unspecified)	580 Precondition failure
VA_40	17 (User busy)	600 Busy Everywhere
VA_41	21 (Call rejected)	603 Decline
VA_42	2 (No route to specified transit network)	604 Does not exist anywhere
VA_43	88 (incompatible destination)	606 Not acceptable

TP number	TP_207_002	Reference		7.2.3.2.12	
TSS reference	ISUP-SIP/Basic call/Rec	eipt_of_4xx-5xx-6xx/	1		
Selection criteria					
Test Purpose name	Mapping of unsuccessfu	I final responses to R	EL after 1	80 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 180 Ringing, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'				
ISUP Parameter values	<b>REL:</b> Cause = REL_ca	use			
SIP Parameter values	SIP_Response				
Comments					
Message flows	Mg IAM REL	MGCF →	<b>+</b> + +	ISUP INVITE 100 Trying 180 Ringing SIP_Response	
	RLC	<u>→</u>	<b>→</b>	ACK	

TP number	TP_207_003	Re	ference	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/					
Selection criteria		•					
Test Purpose name	Mapping of unsucces	ssful final resp	onses to REL after	181 was received			
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 181 Call is Being Forwarded, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'						
ISUP Parameter values	<b>REL:</b> Cause = REL	_cause					
SIP Parameter values	SIP_Response						
Comments							
Message flows	Mg		MGCF	ISUP			
	REL RLC	<b>→</b> ← →	→ + + +	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/Re	eceipt_of_4xx-5xx-6xx/			
Selection criteria		•			
Test Purpose name	Mapping of unsuccessi	ful final responses to REL a	fter 183 was received		
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 183 Session Progress, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'				
ISUP Parameter values	REL: Cause = REL_c	ause			
SIP Parameter values	SIP_Response				
Comments					
Message flows	Mg	MGCF	ISUP		
	REL RLC	<b>→</b> <b>←</b> <b>→</b>	→ INVITE ← 100 Trying ← 183 Session Progress ← SIP_Response → ACK		

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

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

TP number	TP 207 005	Reference	7.2.3.2.12			
TSS reference		ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria		<del>-</del>				
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: cause= SIP_cause				
Comments	The use of different cause values in the Reason header is recommended. The cause value					
	should be adequate to the response code.					
Message flows	Mg	MGCF	ISUP			
	IAM → INVITE					
		← 100 Trying				
	REL <b>←</b>	<b>←</b>	SIP_Response			
	RLC →	<b>→</b>	ACK			

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

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

TP number	TP_207_006	Reference	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic call/Receipt_of	_4xx-5xx-6xx/	·			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML 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>0000001<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b> IN	IVITE			
		<b>←</b> 10	00 Trying			
	REL ←		IP_Response			
	RLC →		CK .			

TP number	TP_207_007	R	Reference	7.2.3.2.12				
TSS reference	ISUP-SIP/Basic call/R	Receipt_of_	4xx-5xx-6xx/	•				
Selection criteria	PICS 6.2.1/5	•						
Test Purpose name	Mapping of PSTN XM the REL	Mapping of PSTN XML ProgressIndicator 2 in an unsuccessful final response into ATP in the REL						
Test Purpose	response as indicated	Ensure that on receipt of a PSTN XML ProgressIndicator value 2 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #2						
ISUP Parameter values	Progress Ir	REL: Access Transport Progress Indicator Progress Description='0000010'						
SIP Parameter values	SIP_Response: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<							
Comments								
Message flows	Mg 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_of	_4xx-5xx-6xx/	·			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	the REL		ssful final response into ATP in			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #4					
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
	Progress Descrip	otion='0000100'				
SIP Parameter values	SIP_Response:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000100<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	NVITE			
		<b>←</b> 1	00 Trying			
	REL ←		SIP_Response			
	RLC →		ACK .			

TP number	TP_207_009	F	Reference	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic cal	I/Receipt_of_	4xx-5xx-6xx/	-			
Selection criteria	PICS 6.2.1/5	• = =					
Test Purpose name	Mapping of PSTN X the REL	KML Progress	sIndicator 5 in an un	successful final response into ATP in			
Test Purpose	response as indicat	Ensure that on receipt of a PSTN XML ProgressIndicator value 5 in an unsuccessful final response as indicated in table 6.1.2.7-4, a REL is sent and an Access Transport Parameter is present containing a Progress Indicator #5					
ISUP Parameter values	IAM: USI=speech TMR=64 kbi REL: Access Tran Progress						
SIP Parameter values	SIP_Response: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101<						
Comments							
Message flows	Mg IAM REL RLC	<b>→ ← →</b>	•	ISUP  → INVITE  ← 100 Trying  ← SIP_Response  → ACK			

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

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

TP number	TP_207_010	Reference	7.2.3.2.12				
TSS reference	ISUP-SIP/Basic call	/Receipt_of_4xx-5xx-6xx/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN X in REL	ML HighLayerCompatibility in a	an unsuccessful final response into ATP				
Test Purpose	Ensure that on recei	ipt of an unsuccessful final resp	oonse and a PSTN XML				
	HighLayerCompatib	ility element is present a REL i	s sent and a Access Transport				
			atibility IE and the value is set to the				
	value HLC_VA as in	dicated in table 6.1.2.5-1					
ISUP Parameter values	REL: Access Trans	sport					
		r compatibility					
		ayer characteristics identificati	on = <b>HLC_VA</b>				
SIP Parameter values		SIP_Response:					
		PSTN XML MIME body					
		<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN						
	HighLayerComp	atibility					
	HLOctet3						
		CodingStandard>00<					
		Interpretation>100<					
		tionMethod>01<					
	HLOctet4						
Comments	⊟ ⊟ign∟aye	rCharacteristics>HLC_VA<					
~ ~	Mai	MOCE	IGUD				
Message flows	Mg	MGCF	ISUP				
	IAM	<b>→</b>	→ INVITE				
	DEL		← 100 Trying				
	REL	<del>(</del>	← SIP_Response				
	IRLC	<b>→</b>	→ ACK				

TP number	TP_207_011	Reference	7.2.3.2.12		
TSS reference	ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Bearer	Capability in an unsuccessful f	inal response into ATP in REL		
Test Purpose	Ensure that on receipt of an un	successful final response and	a PSTN XML		
	BearerCapability element is pre				
	present containing a Bearer Ca	apability IE and the value is set	to the value ITC_value as		
	indicated in table 6.1.2.5-2				
ISUP Parameter values	REL: Access Transport				
	Bearer Capability				
		sfer Capability = ITC_value			
SIP Parameter values	SIP_Response:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00				
		Capability> ITC_value <			
	BCoctet4				
	TransferMode>00<				
	InformationTransfer	Rate>10000<			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→ INV			
			Trying		
	REL ←	← SIP	_Response		
	RLC →	→ ACk			

TP number	TP_207_012	Ref	erence	7.2.3.2.12			
TSS reference	ISUP-SIP/Basic call/	Receipt_of_4x	x-5xx-6xx/				
Selection criteria	PICS 6.2.1/20						
Test Purpose name	Play media provided	in an Error-Inf	o header received in	an unsuccessful final response			
Test Purpose	Ensure that the SUT instructs the MGW to play out media associated with an URL present in an Error-Info header received in an unsuccessful final response as indicated in table 6.1.2.7-4						
ISUP Parameter values							
SIP Parameter values	SIP_Response: Erro	SIP_Response: Error-Info: <media re="" source="" url=""></media>					
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE			
	← 100 Trying						
	← SIP_Response						
	→ ACK						
	media						
		Apply post test routine					

TP number	TP_207_013	Reference	7.2.3.2.12.1, 7.2.3.3				
TSS reference	ISUP-SIP/Basic call/Receipt of 4xx-5xx-6xx/						
Selection criteria	PICS 6.2.3/2						
Test Purpose name	Handling of 404 and 484 respo	nses after sending of INVITE					
Test Purpose	Ensure that on receipt of a 404 sending of INVITE without dete expiry of T i/w3 a REL is sent, to	rmining 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				
		Fi/w2 started → INVI Fi/w3 started ← 484 → ACK	Address Incomplete				
	- · · · · ·	Fi/w2 started → INVI Fi/w3 started ← 484 → ACK	Address Incomplete				
	REL ← Ti/w3 expired RLC →						

TP number	TP_207_014	Reference	)	7.2.3.2	2.19		
TSS reference	ISUP-SIP/Basic call/R	eceipt_of_4xx-5xx-6	ixx/				
Selection criteria							
Test Purpose name	Handling of 3xx respo	nses after sending c	f INVITE				
Test Purpose		Ensure that on receipt of a 3xx final responses as indicated in table 6.1.2.7-5, an ISUP REL is sent. The Cause value in the sent REL is set to value 127					
ISUP Parameter values	REL: Cause=127						
SIP Parameter values							
Comments							
Message flows	Mg	MGC	F		ISUP		
	IAM	<b>→</b>	<b>→</b>	INVITE			
	REL	<b>←</b>	<b>←</b>	3xx_VA			
	RLC	<b>→</b>	<b>→</b>	ACK			

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

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

ISUP-SIP/Basic call/Receipt_of_4xx-5xx-6xx/    Selection criteria	TP number	TP_207_015		Reference		7.2.3.2.17.2	
Test Purpose name  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 connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity check required on this circuit or continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity check required on this circuit or continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity check required on this circuit or continuity check required on this circuit or continuity check performed on previous circuit  COT: Cause 127  IAM: Nature of connection continuity check required on this circuit or continuity check required on this circuit or continuity check performed on previous circuit  COT: Cause 127  IAM: Nature of connection continuity check required on this circuit or continuity check performed on previous circuit  COT: Cause 127  IAM: Nature of connection continuity check performed on this circuit or continuity check perfor	TSS reference	ISUP-SIP/Ba	sic call/Receipt_of	f_4xx-5xx-6xx/			
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	Selection criteria	PICS 6.2.1/3					
request was sent in the early dialogue, a REL is sent and the Cause value is set to 127  IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit  COT: Continuity indicator=continuity check successful  REL: Cause=127  INVITE: Supported: precondition, 100rel  SDP a=curr:qos local none							
IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit   COT: Continuity indicator=continuity check successful REL: Cause=127   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 mandatory local sendrecv	Test Purpose						
check performed on previous circuit COT: Continuity indicator=continuity check successful REL: Cause=127  SIP Parameter values  INVITE: Supported: precondition, 100rel SDP a=curr:qos local none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv  183: Require: 100rel SDP a=curr:qos local none 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=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 local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandator							
COT: Continuity indicator=continuity check successful REL: Cause=127  INVITE: Supported: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 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 local sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv  ISUP  Message flows  Mg MGCF ISUP  IAM → INVITE ← 100 Trying ← 183 Session Progress → PRACK ← 200 OK (PRACK) → UPDATE  EEL ← 580 Precondition Failure	ISUP Parameter values				neck requir	red on this circuit or continuity	
REL: Cause=127  SIP Parameter values  INVITE: Supported: precondition, 100rel SDP							
SIP Parameter values				itinuity check succes	stul		
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 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 local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv comments  Mg MGCF ISUP  INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) PRACK 580 Precondition Failure	OID Deservations of the control of t			ti 400I			
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=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote none a=des:qos mandatory remote sendrecv 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 because the sendrecv  Comments  Mg MGCF ISUP IAM  INVITE  100 Trying 183 Session Progress PRACK 200 OK (PRACK) PRACK 580 Precondition Failure	SIP Parameter values						
a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv  183: Require: 100rel SDP a=curr:qos local none a=des:qos mandatory local 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 because of the control of		SDP					
a=des:qos none remote sendrecv  183: Require: 100rel SDP					,		
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 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 local sendrecv a=des:qos mandatory remote sendrecv  ISUP  IAM  MGCF ISUP  IAM  INVITE  100 Trying 183 Session Progress PRACK 200 OK (PRACK) COT REL  COT REL  SDP  A=curr:qos local sendrecv a=des:qos mandatory remote sendrecv a=des:qos mandatory remote sendrecv  ISUP  INVITE 200 OK (PRACK) FOO THE SENDRE SENDRECK FOO THE SENDRECK FOO TH							
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  Comments  Message flows  Mg MGCF ISUP IAM  IAM  INVITE  100 Trying 183 Session Progress PRACK 200 OK (PRACK) COT PREL  COT PUPDATE  580 Precondition Failure			a=a00.q00 110110	Tomoto donaroov			
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  Comments  Message flows  Mg MGCF ISUP  IAM   INVITE  100 Trying 183 Session Progress PRACK 200 OK (PRACK) COT REL  COT SED  100 Trying 10		183: Require:	100rel				
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  Comments  Message flows  Mg MGCF ISUP  IAM → INVITE ← 100 Trying ← 183 Session Progress → PRACK ← 200 OK (PRACK) COT → UPDATE REL ← 580 Precondition Failure				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 local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg MGCF ISUP  IAM → INVITE ← 100 Trying ← 183 Session Progress → PRACK ← 200 OK (PRACK) COT → UPDATE REL ← 580 Precondition Failure							
a=conf:qos remote sendrecv  UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv  Comments  Message flows  Mg MGCF ISUP  IAM → INVITE ← 100 Trying ← 183 Session Progress → PRACK ← 200 OK (PRACK) COT → UPDATE REL ← 580 Precondition Failure							
UPDATE: SDP					CV		
SDP a=curr:qos local sendrecv a=curr:qos remote none 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 183 Session Progress PRACK 200 OK (PRACK) UPDATE REL  580 Precondition Failure		a=conf:qos 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  Comments  Message flows  Mg MGCF ISUP  INVITE 100 Trying 183 Session Progress PRACK 183 Session Progress PRACK 200 OK (PRACK) UPDATE REL  580 Precondition Failure							
a=curr:qos remote none 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)  TOT  REL  S80 Precondition Failure		• · · · · = ·					
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 REL ← 580 Precondition Failure							
a=des:qos mandatory remote sendrecv							
Comments         Mg         MGCF         ISUP           IAM         →         INVITE         ←         100 Trying         ←         183 Session Progress         →         PRACK         ←         200 OK (PRACK)         ←         200 OK (PRACK)         →         UPDATE         ←         580 Precondition Failure							
Message flows         Mg         MGCF         ISUP           IAM         →         INVITE         ←         100 Trying         ←         183 Session Progress         →         PRACK         ←         200 OK (PRACK)         ←         200 OK (PRACK)         →         UPDATE         ←         580 Precondition Failure	Comments		a=acs.qos mana	atory remote senare			
IAM		Ma		MGCF		ISUP	
<ul> <li>← 100 Trying</li> <li>← 183 Session Progress</li> <li>→ PRACK</li> <li>← 200 OK (PRACK)</li> <li>COT</li> <li>→ UPDATE</li> <li>REL</li> <li>← 580 Precondition Failure</li> </ul>		_			<b>→</b>		
<ul> <li>← 183 Session Progress</li> <li>→ PRACK</li> <li>← 200 OK (PRACK)</li> <li>COT</li> <li>→ UPDATE</li> <li>REL</li> <li>← 580 Precondition Failure</li> </ul>			_		<b>←</b>		
→ PRACK         ← 200 OK (PRACK)         COT       → UPDATE         REL       ← 580 Precondition Failure					<del>-</del>		
<ul> <li>COT</li> <li>REL</li> <li>COT</li> <li>COT</li></ul>					<b>→</b>		
COT → UPDATE  REL ← 580 Precondition Failure					<b>←</b>		
REL ← 580 Precondition Failure		СОТ	<b>→</b>		<b>→</b>		
			<b>←</b>		<b>←</b>	580 Precondition Failure	
RLC →		RLC	<b>→</b>				
Apply post test routine				Apply post test r	outine		

## 6.1.2.8 Receipt of a BYE

TD number	TD 200 004	Deference	7 2 2 2 42
TP number	TP_208_001	Reference	7.2.3.2.13
TSS reference	ISUP-SIP/Basic call/Receip	ot_of_BYE/	
Selection criteria			
Test Purpose name	BYE received, REL is sent		
Test Purpose	Ensure that on receipt of a	BYE message and no reasor	header is present, a REL is sent.
	The Cause value of the RE interworking point'	L is set to #16, the location is	s set to 'network beyond
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
	ACM ←	<del>(</del>	180 Ringing
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK
	REL ← RLC →	<b>←</b> →	BYE 200 OK (BYE)

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

TP number	TP_208_003	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Rece	ipt_of_BYE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 1 in a BY	E into ATP in the REL		
Test Purpose	Ensure that on receipt of a	a PSTN XML ProgressInd	icator value 1 in a BYE request, a REL		
	is sent and an Access Tra	nsport Parameter is pres	ent containing a Progress Indicator #1		
ISUP Parameter values	REL: Access Transport				
	Progress Indica				
		escription='0000001'			
SIP Parameter values	BYE:				
	xml version="1.0" enco</th <th>ding="utf-8"?&gt;</th> <th></th>	ding="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescr	iption> <b>0000001</b> <			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM -	→	→ INVITE		
			← 100 Trying		
	ACM	<b>-</b>	← 180 Ringing		
	ANM	-	← 200 OK (INVITE)		
			→ ACK		
	REL	-	<b>←</b> BYE		
	RLC -	→	→ 200 OK (BYE)		

TP number	TP_208_004	Reference	7.2.3.2.13			
TSS reference		ISUP-SIP/Basic call/Receipt_of_BYE/				
Selection criteria	PICS 6.2.1/5	<del></del>				
Test Purpose name	Mapping of PSTN XML Prog	ressIndicator 2 in a BYE in	to ATP in the REL			
Test Purpose	Ensure that on receipt of a P	STN XML ProgressIndicate	or value 2 in a BYE request, a REL containing a Progress Indicator #2			
ISUP Parameter values	REL: Access Transport					
	Progress Indicato					
		cription='0000010'				
SIP Parameter values	BYE:					
	xml version="1.0" encoding</th <th>ıg="utf-8"?&gt;</th> <th></th>	ıg="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000010<					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>←</b>	200 OK (INVITE)			
		<b>→</b>	ACK			
	REL ←	<b>←</b>	BYE			
	RLC →	<b>→</b>	200 OK (BYE)			

TD	TD 000 005		<b>.</b> .		I
TP number	TP_208_005		Reference		7.2.3.2.13
TSS reference	ISUP-SIP/Basic ca	ll/Receipt_of_	_BYE/		
Selection criteria	PICS 6.2.1/5				
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	ontaining 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"?&gt;</th> <th></th> <th></th>	" encodina="	utf-8"?>		
	PSTN	3			
	ProgressIndicat	or			
	ProgressOctet4				
	ProgressDescription>0000100<				
Comments					
Message flows	Mg		MGCF		ISUP
	IAM	→		<b>→</b>	INVITE
				<b>←</b>	100 Trying
	ACM ← 180 Ringing				
	7.00 Tanging				
	ANM ← 200 OK (INVITE)				
	→ ACK				
	<b>7</b> AUN				
	חרו	<b>←</b>		_	BYE
	REL				= : =
	RLC	<b>→</b>		<b>→</b>	200 OK (BYE)

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

TP number	TP_208_007	Reference	7.2.3.2.13			
TSS reference	ISUP-SIP/Basic call/Receipt_of_BYE/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML HighLa	ayerCompatibility in a BYE	into ATP in REL			
Test Purpose	Ensure that on receipt of BYE	request and a PSTN XML	HighLayerCompatibility element is			
			er is present containing a High			
		layer compatibility IE and the value is set to the value HLC_VA as indicated in				
	table 6.1.2.5-1					
ISUP Parameter values	REL: Access Transport					
	High layer compatib					
		acteristics identification = I	HLC_VA			
SIP Parameter values	BYE:					
	PSTN XML MIME body	11-44 0110				
	<pre><?xml version="1.0" encoding: PSTN</pre></pre>	="utt-8"?>				
	HighLayerCompatibility HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod					
	HLOctet4					
	HighLayerCharacte	ristics>HLC VA<				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ← 180 Ringing					
	ANM ← 200 OK (INVITE)					
		<b>→</b>	ACK			
	REL ←	<b>←</b>	BYE			
	RLC →	<b>→</b>	200 OK (BYE)			

TP number	TP_208_008	Reference	7.2.3.2.13		
TSS reference	ISUP-SIP/Basic call/Receipt_of_BYE/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Bearer	Capability in a BYE into A	TP in REL		
Test Purpose	Ensure that on receipt of a BYI				
	present, a REL is sent 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 6.1.2.5-2				
ISUP Parameter values	REL: Access Transport				
	Bearer Capability				
		sfer Capability = ITC_valu	ie		
SIP Parameter values	BYE:	" " " " " " " " " " " " " " " " " " " "			
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"?>			
	PSTN				
	BearerCapability BCoctet3				
	CodingStandard>00<				
	3	Capability> ITC_value <			
	BCoctet4	Capability> 11 C_value <			
	TransferMode>00<				
	InformationTransfer	Rate>10000<			
Comments	200 2				
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
	ANM ← 200 OK (INVITE)				
	→ ACK				
	REL ←	<b>←</b>	BYE		
	RLC →	<b>→</b>	200 OK (BYE)		

## 6.1.2.9 Receipt of the Release Message

TP number	TP_209_001	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	a CANCEL is sent		
Test Purpose	Ensure that on receipt of a REL message before an early dialogue was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL				
ISUP Parameter values	REL: Cause value				
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value&gt;</th><th></th></ca<>	use value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM → REL → RLC ←	<b>←</b> <b>→</b> <b>←</b>	INVITE 100 Trying CANCEL 200 OK (CANCEL) 487 Request Terminated ACK		

TP number	TP_209_002	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receipt_of	_REL/			
Selection criteria					
Test Purpose name	REL received after an early dia	logue with 180 was establis	shed, a CANCEL is sent		
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to a 180 Ringing response was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL				
ISUP Parameter values	REL: Cause value				
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value&gt;</th><th></th></ca<>	use value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	NVITE		
		<b>←</b> 1	00 Trying		
	ACM ←	← 1	80 Ringing		
	REL →		CANCEL		
	RLC ← 200 OK (CANCEL)				
			87 Request Terminated ACK		

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

TP number	TP_209_004	Reference		7.2.3.2.14	
TSS reference	ISUP-SIP/Basic call/F	Receipt_of_REL/			
Selection criteria					
Test Purpose name					
Test Purpose	REL received after ar	n early dialogue with 182	was estal	blished, a CANCEL is sent	
ISUP Parameter values	response was establi	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: c	ause= <cause value=""></cause>			
Message flows	Mg	MGCF		ISUP	
	IAM ACM	<b>→</b> ←	<b>→ ←</b>	INVITE 100 Trying 182 Queued	
	REL RLC	<b>→</b> ←	→ ← ← →	CANCEL 200 OK (CANCEL) 487 Request Terminated ACK	

TP number	TP_209_005	Reference	7.2.3.2.14			
TSS reference	ISUP-SIP/Basic call/Receipt_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&gt;</th><th></th></ca<>	use value>				
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b> II	NVITE			
		<b>←</b> 1	00 Trying			
	ACM ←	<b>←</b> 1	83 Session Progress			
	REL →	-	ANCEL			
	RLC ← 200 OK (CANCEL)					
			87 Request Terminated CK			

TP number	TP_209_006	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria					
Test Purpose name	REL received in the confirmed	dialogue a BYE is sent			
Test Purpose			d 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&gt;</th><th></th></caus<>	e value>			
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
	ACM ←	<b>←</b>	180 Ringing		
			0 0		
	ANM ←	<b>←</b>	200 OK (INVITE)		
			ACK		
	REL →	<b>→</b>	BYE		
	RLC ←	<b>←</b>	200 OK (BYE)		

TP number	TP_209_007	Reference	7.2.3.2.14				
TSS reference	ISUP-SIP/Basic call/Receipt	ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of REL ATP Progre	ess Indicator #1 into PSTN	XML ProgressIndicator #1 in the				
Test Purpose			ontaining a Progress Indicator #2 in STN XML ProgressIndicator is				
	present, the ProgressDescri		•, rog. ocoa.oate. 10				
ISUP Parameter values	REL: Access Transport						
	Progress Indicato	r					
		cription='0000001'					
SIP Parameter values	BYE:						
	xml version="1.0" encodir</th <th>ng="utf-8"?&gt;</th> <th></th>	ng="utf-8"?>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4	ion: 0000001 a					
Comments	ProgressDescript	ProgressDescription>0000001<					
Message flows	Mg	MGCF	ISUP				
Wessage nows	IAM →	WIGCI →	INVITE				
	IAW	<b>*</b>	100 Trying				
	ACM ←	÷	180 Ringing				
	7.0101	•	100 Kinging				
	ANM ←	<b>+</b>	200 OK (INVITE)				
	7.11111	·	ACK				
		•	,				
	REL →	<b>→</b>	BYE				
	RLC +	<b>+</b>	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 6.2.1/5	, = =				
Test Purpose name	Mapping of REL A	ATP Progress Ir	ndicator #2 into	PSTN 2	XML ProgressIndicator #2 in the	
Test Purpose		logue, a BYE re	quest is sent a		ontaining a Progress Indicator #2 in GTN XML ProgressIndicator is	
ISUP Parameter values		ansport ess Indicator ogress Descripti	on='0000010'			
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<					
Comments		•				
Message flows	Mg IAM ACM	<b>→</b>	MGCF	<b>→ ←</b>	ISUP INVITE 100 Trying 180 Ringing	
	ANM	<b>←</b>		<b>←</b> <b>→</b>	200 OK (INVITE) ACK	
	REL RLC	<b>→</b>		<b>→</b>	BYE 200 OK (BYE)	

TP number	TP_209_009	Reference	7.2.3.2.14		
TSS reference	ISUP-SIP/Basic call/Rece	eipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP Pro BYE	gress Indicator #4 into PST	N XML ProgressIndicator #4 in the		
Test Purpose	Ensure that on receipt of a REL message and a ATP containing a Progress Indicator #4 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #4				
ISUP Parameter values	REL: Access Transport Progress Indica Progress D	ator escription='0000100'			
SIP Parameter values	BYE:  PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<				
Comments		•			
Message flows		•	ISUP  INVITE  100 Trying  180 Ringing		
	ANM		► 200 OK (INVITE) ► ACK		
		=	<ul><li>▶ BYE</li><li>★ 200 OK (BYE)</li></ul>		

TP number	TP_209_010	F	Reference		7.2.3.2.14		
TSS reference		ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 6.2.1/5	,					
Test Purpose name	Mapping of REL BYE	ATP Progress I	ndicator #5 into	PSTN )	XML ProgressIndicator #5 in the		
Test Purpose	the confirmed dia	Ensure that on receipt of a REL message and an ATP containing a Progress Indicator #5 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #5					
ISUP Parameter values	Progre	REL: Access Transport Progress Indicator Progress Description='0000101'					
SIP Parameter values	PSTN ProgressIndio Progress0	xml version="1.0" encoding="utf-8"?					
Comments		•					
Message flows	IAM ACM	<b>→</b>	MGCF	→ ← ←	ISUP INVITE 100 Trying 180 Ringing		
	ANM	<b>←</b>		<b>←</b> →	200 OK (INVITE) ACK		
	REL RLC	<b>→</b>		<b>→</b>	BYE 200 OK (BYE)		

TP number	TP_209_011	Refe	erence	7.2.3.2.14			
TSS reference	ISUP-SIP/Basic call/	ISUP-SIP/Basic call/Receipt_of_REL/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of REL ATI the BYE	P High layer cor	npatibility into PST	N XML HighLayerCompatibility in			
Test Purpose	IE in the confirmed of HighLayerCompatible indicated in table 6.1	dialogue, a BYE ility is present, t I.2.1-4	request is sent an	containing a High layer compatibility d a PSTN XML acteristics is set to <b>HLC_VA</b> as			
ISUP Parameter values		r compatibility	tics identification =	- HLC_VA			
SIP Parameter values	BYE: PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01< HLOctet4 HighLayerCharacteristics>HLC_VA<						
Comments	j		<del>-</del>				
Message flows	Mg IAM ACM ANM	→ ← ←	MGCF	100 Trying 180 Ringing 200 OK (INVITE) ACK			
	RLC	+	+	200 OK (BYE)			

TP number	TP_209_012	Reference		7.2.3.2.14		
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL A	TP Bearer Capability into PS	STN XML	Bearer Capability in the BYE		
Test Purpose	Ensure that on rece	eipt of a REL message and	an ATP c	containing a Bearer Capability IE in		
				STN XML Bearer Capability is		
		ationTransferCapability is s	et to ITC_	_value as indicated in		
	table 6.1.2.1-6					
ISUP Parameter values	REL: Access Tran					
		Capability				
		mation Transfer Capability =	= ITC_val	ue		
SIP Parameter values	BYE:					
		)" encoding="utf-8"?>				
	PSTN					
	BearerCapabilit	ty				
	BCoctet3					
	•	Standard>00<				
	InformationTransferCapability>ITC_value<					
	BCoctet4					
	TransferMode>00<					
Comments	InformationTransferRate>10000<					
~ ~	Ma	MGCF		ISUP		
Message flows	Mg	wiger →	<b>→</b>			
	IAM	7	_	INVITE		
	← 100 Trying					
	ACM ← 180 Ringing					
	ANIM					
	ANM ← 200 OK (INVITE)					
	→ ACK					
	REL	<b>→</b>	<b>→</b>	BYE		
	RLC	É	ŕ	200 OK (BYE)		
	ILCO			200 011 (012)		

# 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/F	Receipt_of	_RSC-GRS-CGB/			
Selection criteria						
Test Purpose name	Receipt of RSC befor	e an early	dialogue was establish	ned		
Test Purpose	request is sent contai	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		
	RSC RLC	→ → ←	→ ← ← ←	INVITE 100 Trying CANCEL 200 OK (CANCEL) 487 Request Terminated ACK		

TP number	TP_210_002	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic call/Receipt_	of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of RSC after an early	dialogue with 180 was esta	ablished			
Test Purpose	Ensure that on receipt of a RSC after an early dialogue with receipt of a 180 Ringing provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request					
ISUP Parameter values						
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	RSC →	<b>→</b>	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/Rec	ISUP-SIP/Basic call/Receipt of RSC-GRS-CGB/					
Selection criteria							
Test Purpose name	Receipt of RSC after an	early dialogue with 181 w	as established				
Test Purpose	Ensure that on receipt of a RSC after an early dialogue with receipt of a 181 Being forwarded provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request						
ISUP Parameter values		•	·				
SIP Parameter values	CANCEL: Reason:						
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM	<b>→</b>	→ INVITE				
			← 181 Being forwarded				
	RSC	<b>→</b>	→ CANCEL				
	RLC	<b>←</b>	← 200 OK (CANCEL)				
			<ul><li>← 487 Request Terminated</li><li>→ ACK</li></ul>				

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

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

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

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

TP number	TP_210_008	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_c	f_RSC-GRS-CGB/			
Selection criteria					
Test Purpose name	Receipt of GRS after an early	dialogue with 181 was esta	ablished		
Test Purpose	Ensure that on receipt of a GRS after an early dialogue with receipt of a 181 Being forwarded provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values					
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	→	INVITE		
		+	181 Being forwarded		
	GRS →	<b>→</b>	CANCEL		
	GRA <b>←</b>	<b>←</b>	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	I/Receipt_of_	RSC-GRS-CGB/	•		
Selection criteria						
Test Purpose name	Receipt of GRS after	er an early di	alogue with 183 was	established		
Test Purpose	Progress provisiona	Ensure that on receipt of a GRS after an early dialogue with receipt of a 183 Session Progress provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values				•		
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	Mg		MGCF	ISUP		
	IAM	<b>→</b>	-	INVITE		
			•	183 Session Progress		
	GRS	<b>→</b>	-	CANCEL		
	GRA	<b>←</b>	€	= 200 OK (CANCEL)		
			<del>(</del>	<ul><li>487 Request Terminated</li><li>ACK</li></ul>		

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

TP number	TP_210_011	Reference	7.2.3.2.15	
TSS reference	ISUP-SIP/Basic call/Receipt_c	f_RSC-GRS-CGB/		
Selection criteria				
Test Purpose name	Receipt of GRS after a confirm are terminated.	ned dialogue was establis	hed, all affected communications	
Test Purpose	Two connections are established. Ensure that on receipt of GRS after a confirmed dialogue with a 200 OK (INVITE) final response was established, a BYE request for each of the established connection is sent			
ISUP Parameter values				
SIP Parameter values	BYE: Reason:			
Comments				
Message flows	Mg	MGCF	ISUP	
	Tv	wo connection are estal	olished	
	GRS →			
	GRA <b>←</b>	<b>→</b>	BYE (1)	
		+	200 OK (BYE)	
		<b>→</b>	BYE (2)	
		+	200 OK (BYE)	

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

TP number	TP_210_013	Reference	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/Receipt_	of_RSC-GRS-CGB/	·		
Selection criteria					
Test Purpose name	Receipt of CGB 'hardware orion	ented' after an early dialogu	ue with 180 was established		
Test Purpose	Ensure that on receipt of a CGB 'hardware oriented' after an early dialogue with receipt of a 180 Ringing provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values	CGB: Circuit group supervisi	on message type=hardware	e failure oriented		
SIP Parameter values	CANCEL: Reason:				
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM →	<b>→</b>	INVITE		
	ACM ←	+	180 Ringing		
	CGB →	<b>→</b>	CANCEL		
	CGBA <b>←</b>	<b>←</b>	200 OK (CANCEL) 487 Request Terminated ACK		

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

TP number	TP_210_015	Referen	се	7.2.3.2.15		
TSS reference	ISUP-SIP/Basic call/F	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria						
Test Purpose name	Receipt of CGB 'hard	ware oriented' after	an early dialo	gue with 183 was established		
Test Purpose	183 Session Progress	Ensure that on receipt of a CGB 'hardware oriented' after an early dialogue with receipt of a 183 Session Progress provisional response is established, a CANCEL request is sent containing a Reason header. The SUT receives a 487 Request Terminated and sends an ACK request				
ISUP Parameter values	CGB: Circuit group s	upervision messag	e type=hardwa	are failure oriented		
SIP Parameter values	CANCEL: Reason:					
Comments						
Message flows	Mg	MG	CF	ISUP		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			+	183 Session Progress		
	CGB	<b>→</b>	<b>→</b>	CANCEL		
	CGBA	<b>←</b>	+	200 OK (CANCEL)		
			<b>←</b> →	487 Request Terminated ACK		

TP number	TP_210_016	Reference	7.2.3.2.15			
TSS reference	ISUP-SIP/Basic ca	ISUP-SIP/Basic call/Receipt_of_RSC-GRS-CGB/				
Selection criteria		· = =				
Test Purpose name	Receipt of CGB 'ha	rdware oriented' after a cor	firmed dialogue was established			
Test Purpose	Ensure that on rece	eipt of CGB 'hardware orien	ted' after a confirmed dialogue with a 200			
	OK (INVITE) final r	esponse was established, a	BYE request is sent			
ISUP Parameter values	CGB: Circuit grou	supervision message type	=hardware failure oriented			
SIP Parameter values	BYE: Reason:	-				
Comments						
Message flows	Mg	MGCF	ISUP			
_	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 180 Ringing			
	ANM	<b>←</b>	← 200 OK (INVITE)			
			→ ACK			
	CGB	<b>→</b>	→ BYE			
	CGBA	<b>←</b>	← 200 OK (BYE)			

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

#### 6.1.2.11 Autonomous Release at O-MGCF

TP number	TP_211_001	Reference	7.2.3.2.16
TSS reference	ISUP-SIP/Basic call/Autono	mous_Release/	
Selection criteria	PICS 6.2.1/3		
Test Purpose name	COT procedure fails		
Test Purpose	IAM received and the contin	uity check indicator is set to	'continuitycheck required' or
	performed on a previous cir		
			Iready established early dialog is
	· ·	iest is sent. A Reason heade	er is present containing the cause
	value '41'		
ISUP Parameter values	COT: 'continuity check faile	ed'	
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	<b>→</b>	INVITE
		<b>←</b>	100 Trying
		<b>←</b>	183 Session Progress
		<b>→</b>	PRACK
		+	200 OK (PRACK)
	COT →	<b>→</b>	CANCEL
		<b>←</b>	200 OK (CANCEL)
		<b>←</b>	487 Request Terminated
		<b>→</b>	ACK

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

TP number	TP_211_004	Referen	e	7.2.3.2.16	
TSS reference	ISUP-SIP/Basic call/	Autonomous_Relea	se/		
Selection criteria					
Test Purpose name	Call is released to du confirmed dialogue	ue message compat	bility instructio	n 'Release call' received in the	
Test Purpose	Ensure that on receipt of an unknown ISUP message in the confirmed dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP BYE request is sent and a Reason header field is present				
ISUP Parameter values	??? = unknown message:  Message compatibility information: Release call indicator=release call  REL: Cause=97				
SIP Parameter values	BYE: Reason:				
Comments	For an unknown mes	ssage use a messag	e type unknow	n in the SUT.	
Message flows	Mg	MG	CF	ISUP	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	100 Ringing	
		<b>←</b>	+	200 OK (INVITE)	
			<b>→</b>	ACK	
	???	<b>→</b>			
	REL	<b>←</b>	<b>→</b>	BYE	
	RLC	<b>→</b>	+	200 OK (BYE)	

TP number	TP_211_005	Reference	7.2.3.2.16			
TSS reference	ISUP-SIP/Basic call/Autonomo	us_Release/				
Selection criteria						
Test Purpose name	1	ter compatibility instruction	on 'Release call' received in the			
	early dialogue					
Test Purpose	Ensure that on receipt of a CPC					
	present the parameter compati					
	message is sent and the Cause	e indicator is set to value	99 or 110. In addition a SIP			
	CANCEL request is sent and a	Reason header field is p	resent.			
ISUP Parameter values	<b>CPG:</b> Parameter compatibility	CPG: Parameter compatibility information: Release call indicator=release call				
	REL: Cause=99 or 110					
SIP Parameter values	CANCEL: Reason:					
Comments	For an unknown parameter use	e a parameter type unkno	wn in the SUT.			
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	100 Ringing			
	CPG →					
	REL ← CANCEL					
	RLC →	<b>←</b>	200 OK (CANCEL)			
		<b>←</b>	487 Request Terminated			
		<b>→</b>	ACK			

TP number	TP_211_006	Reference	7.2.3.2.16			
TSS reference	ISUP-SIP/Basic call/Autonomo	ous_Release/				
Selection criteria						
Test Purpose name	Call is released to due parame confirmed dialogue	eter compatibility instruction	on 'Release call' received in the			
Test Purpose	Ensure that on receipt of a CPG in the confirmed dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP BYE request is sent and a Reason header field is present					
ISUP Parameter values	CPG: Parameter compatibility REL: Cause=99 or 110	CPG: Parameter compatibility information: Release call indicator=release call REL: Cause=99 or 110				
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 →	<b>→</b>	INVITE			
	ACM ←	<del>-</del>	100 Ringing			
	ANM ← 200 OK (INVITE)					
		<b>→</b>	ACK			
	CPG →					
	REL <b>←</b>	<b>→</b>	BYE			
	RLC →	+	200 OK (BYE)			

## 6.2 Supplementary Services

### 6.2.1 Void

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

TP number	TP_302_001	Reference	7.4.2			
TSS reference	PSTN-SS/COL/					
Selection criteria	NOT PICS 6.3.4/1 AND PICS 6	3.3.1/1 AND PICS 6.3.2/2				
Test Purpose name	The SUT does not invoke the C	OLP 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 requested	d'			
	ANM/CON: Connected numb	•				
SIP Parameter values	200 OK: P-Asserted-Identity r	not present				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b>	IAM			
	100 Trying ←					
	CASE A					
	180 Ringing ←	<b>←</b>	ACM			
	200 OK (INVITE)	<b>←</b>	ANM			
	ACK →					
	CASE B					
	200 OK (INVITE) ←	<b>←</b>	CON			
	ACK →					
		Apply post test routine				

TP_302_002	Refer	rence		7.4.2		
PSTN-SS/COL/				•		
PICS 6.3.4/1 AN	PICS 6.3.4/1 AND PICS 6.3.1/1 AND PICS 6.3.2/2					
The SUT invokes	The SUT invokes the COLP service presentation allowed					
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'						
IAM: Op	IAM: Optional forward call indicators = 'not requested'					
INVITE: P-Ass	INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present					
ACK CASE B	<b>→</b> ) <b>← →</b>	MGCF	→ ← ←	ACM ANM	ISUP	
	PSTN-SS/COL/ PICS 6.3.4/1 AN The SUT invokes Ensure that on re IAM is sent and the call indicators papersentation allo Connected num Nature of Address- 'national (signer 200 OK INV) Add CC (of signals to concent of the URI. Presentation of the UR	PSTN-SS/COL/ PICS 6.3.4/1 AND PICS 6.3.1/1 AND The SUT invokes the COLP service p Ensure that on receipt of an INVITE r IAM is sent and the Connected Line I call indicators parameter of the IAM t presentation allowed is interworked.  Connected number Nature of Address Indicator equal to - 'national (significant) number' 200 OK INVITE P-Asserted-Iden Add CC (of the country where th signals to construct an E.164 nu CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Iden Map complete Connected number the URI. Prefix number with "+" i Address presentation restriction indic - 'presentation allowed' Privacy header is not present or IAM: Optional forward call in ANM/CON: Connected number pre INVITE: P-Asserted-Identity preser 200 OK: P-Asserted-Identity preser  Mg INVITE 100 Trying  CASE A 180 Ringing 200 OK (INVITE) ACK  CASE B 200 OK (INVITE)  ACK  CASE B	PSTN-SS/COL/ PICS 6.3.4/1 AND PICS 6.3.1/1 AND PICS 6.3.2/2 The SUT invokes the COLP service presentation allo Ensure that on receipt of an INVITE request ant the SIAM is sent and the Connected Line Identity Request call indicators parameter of the IAM to 'requested'. A 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 signals to construct an E.164 number in the URL CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signathe URL Prefix number with "+" in the Format '+' Address presentation restriction indicator - 'presentation allowed' Privacy header is not present or if present the valam: Optional forward call indicators = 'not reached number present INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present  Mg INVITE  Mg MGCF  INVITE  ORGAN  ABO Ringing  CASE A  180 Ringing  CASE B  200 OK (INVITE)  ACK  CASE B  200 OK (INVITE)  ACK  CASE B	PSTN-SS/COL/ PICS 6.3.4/1 AND PICS 6.3.1/1 AND PICS 6.3.2/2 The SUT invokes the COLP service presentation allowed Ensure that on receipt of an INVITE request ant the SUT invo IAM is sent and the Connected Line Identity Request indicator call indicators parameter of the IAM to 'requested'. A received 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 Corsignals to construct an E.164 number in the URI. Prefix r CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to conthe URI. Prefix number with "+" in the Format '+ CC NDC Address presentation restriction indicator - 'presentation allowed' Privacy header is not present or if present the value is not IAM: Optional forward call indicators = 'not requeste ANM/CON: Connected number present INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present  Mg MGCF INVITE  Mg MGCF INVITE  ACK  ARSE A  180 Ringing  CASE A  180 Ringing  CASE B  200 OK (INVITE)  CASE B  200 OK (INVITE)  CASE B	PSTN-SS/COL/ PICS 6.3.4/1 AND PICS 6.3.1/1 AND PICS 6.3.2/2 The SUT invokes the COLP service presentation allowed Ensure that on receipt of an INVITE request ant the SUT invokes the CIAM is sent and the Connected Line Identity Request indicator" field of call indicators parameter of the IAM to 'requested'. A received connect 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 n signals to construct an E.164 number in the URI. Prefix number with CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to construct an the URI. Prefix number with "+" in the Format '+ CC NDC SN'. Address presentation restriction indicator - 'presentation allowed' Privacy header is not present or if present the value is not equal to IAM: Optional forward call indicators = 'not requested' ANM/CON: Connected number present INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present  Mg MGCF INVITE  Mg MGCF INVITE  ORASE A  180 Ringing  CASE A  180 Ringing  CASE B  200 OK (INVITE)  ACK  CASE B  200 OK (INVITE)  CONNICATE CONNICATED CO	

TP number	TP_302_003	Reference		7.4.2			
TSS reference	PSTN-SS/COL/						
Selection criteria	PICS 6.3.4/1 AND PICS 6.3.1/1 AND PICS 6.3.2/2						
Test Purpose name	The SUT invokes the CO						
Test Purpose	Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an						
•	IAM is sent and the Connected Line Identity Request indicator" field of the Optional forward						
		call indicators parameter of the IAM to 'requested'. A received connected number					
	presentation restricted is interworked						
	Connected number						
	Nature of Address Indica						
	- 'national (significant	) number'					
	200 OK INVITE P-A						
				nnected number address			
		an E.164 number	in the URI. Prefix i	number with '+' in the format '+			
	CC NDC SN.'						
	- 'international number						
	200 OK INVITE P-A			<b>-</b>			
				nstruct an E.164 number in			
	the URI. Prefix num		Format + CC NDC	S SN'.			
	Address presentation res						
	- 'presentation restric	tea					
ISUP Parameter values	Privacy: id	arward call indicate	oro — 'roquostod'				
150P Parameter values	IAM: Optional forward call indicators = 'requested' ANM/CON: Connected number present						
SIP Parameter values	INVITE: P-Asserted-Id						
Sir raidilletei values							
	200 OK: P-Asserted-Identity present Privacy: id						
Comments	i iivacy. iu						
Message flows	Mg	N	IGCF	ISUP			
	INVITE	<b>→</b>	<b>→</b>	IAM			
	100 Trying	<b>←</b>	-	.,			
	100 Trying	•					
	CASE A						
	180 Ringing	<b>←</b>	<b>+</b>	ACM			
	200 OK (INVITE)	÷	è	ANM			
	ACK	÷	•	AUNIVI			
	, tort	•					
	CASE B						
	200 OK (INVITE)	<b>←</b>	<b>←</b>	CON			
	ACK	÷	•				
	, tort	<del>=</del>	st test routine				
	1	дрыу ро	or toot routing				

TP number	TP_302_004		Reference		7.4.2
TSS reference	PSTN-SS/COL	1			
Selection criteria	PICS 6.3.1/1 A	ND PICS 6.3.2/2	)		
Test Purpose name	COL request is	set to 'not reque	ested'		
Test Purpose	Ensure that on	receipt of an IAI	I and the Conne	cted Lin	ne Identity Request indicator in the
	Optional Forwa	rd Call Indicator	s parameter is se	et to 'no	t requested', no P-Asserted-Identity
	received in a pr	ovisional or suc	cessful final resp	onse is	present. No connected number is
	sent in an ANM	or CON.			
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	Mg		MGCF		ISUP
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
	CASE A				
	ACM	<b>←</b>		<b>←</b>	180 Ringing
	ANM	<b>←</b>		<b>←</b>	200 OK (INVITE)
				<b>→</b>	ACK
	CASE B				
	ANM	<b>←</b>		<b>←</b>	200 OK (INVITE)
				<b>→</b>	ACK ´
			Apply post tes	st routi	ne

TP number	TP_302_005	Reference	7.4.2				
TSS reference	PSTN-SS/COL/	PSTN-SS/COL/					
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.1/1 AND PICS 6.3.2/2					
Test Purpose name	COL request is set	to 'requested' Terminating	g identity received in a 180 response				
Test Purpose		Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the					
			s set to 'requested', the P-Asserted-Identity				
		sional response is sent in	the <b>ANM</b> .				
		ted number parameter					
		olete indicator equal to 'Co					
	J		Telephony (Recommendation E.164 [i.1])'				
	Nature of Addr						
			he CC of the country where MGCF is located				
			ated in the same country then set to				
	else set to	"national (significant) number"					
		tional number"					
		"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					
leer randingtor randes		Connected Line Identity Request = requested					
		ANM: Connected number					
	Presentation restriction <b>Privacy_VA</b>						
SIP Parameter values	180:						
	P-Asserted	-Identity					
Comments		-					
Message flows	Mg	MGCF	ISUP				
	IAM	<b>→</b>	→ INVITE				
		← 100 Trying					
	ACM	<b>←</b>	<ul><li>180 Ringing</li></ul>				
	ANM	<b>←</b>	← 200 OK (INVITE)				
			→ ACK				
		Apply post test routine					

TP number	TP_302_006	Reference		7.4.2		
TSS reference	PSTN-SS/COL/					
Selection criteria	PICS 6.3.1/1 AI	ND PICS 6.3.2/2				
Test Purpose name	COL request is	set to 'requested' Terminati	ng identity receive	ed in a 200 OK response		
Test Purpose				entity Request indicator in the		
		rd Call Indicators parameter		ed', the P-Asserted-Identity		
		00 OK response is sent in the	e ANM.			
		nected number parameter				
		omplete indicator equal to 'C				
		Plan Indicator equal to 'ISD	N/Telephony (Red	commendation E.164 [I.1])		
		ddress Indicator	th a CC of the ac-	water contract MCCC is leasted		
		coded in the URI is equal to e next BICC/ISUP node is lo		untry where MGCF is located		
		onal (significant) number"	cated in the same	country then set to		
	else set	· • · ·				
		rnational number"				
	Address Presentation Restricted Indicator derived from the Privacy header according					
	the mapping as described in table 6.2.2-1					
ISUP Parameter values	IAM: Optional Forward Call Indicators					
	Connected Line Identity Request = requested					
	ANM: Connected number					
	Presentation restriction Privacy_VA					
SIP Parameter values	200:					
	P-Asserted-Identity					
Comments						
Message flows	Mg MGCF ISUP					
	IAM → INVITE					
	← 100 Trying					
	ACM	<del>(</del>		Ringing		
	ANM	<b>←</b>		OK (INVITE)		
	Apply post too	t routing	→ ACI	`		
	Apply post test routine					

TP number	TP 302 007	Reference	7.4.2				
TSS reference	PSTN-SS/COL/	N. ====================================					
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/2					
Test Purpose name			identity received in a 200 OK response				
Test Purpose	Ensure that on re Optional Forward	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', if no provisional response					
			d in a 200 OK response is sent in the <b>CON</b> .				
		cted number parameter	mnloto!				
		nplete indicator equal to 'Co	Telephony ( <i>Recommendation E.164 [</i> i.1])'				
		Iress Indicator	relephony (Neconimendation E. 104 [i. 1])				
			ne CC of the country where MGCF is located				
			ated in the same country then set to				
		nal (significant) number"	,				
	else set to						
	"interna	ational number"					
	Address Pres	entation Restricted Indicator	r derived from the Privacy header according				
		the mapping as described in table 6.2.2-1					
ISUP Parameter values	IAM: Optional Forward Call Indicators						
		Connected Line Identity Request = requested					
	CON: Connected number						
CID Deserve (see configurations	Presentation restriction Privacy_VA						
SIP Parameter values		200: P-Asserted-Identity					
Comments	P-Asserted	u-identity					
Message flows	Mg	MGCF	ISUP				
wessage nows	IAM	→	→ INVITE				
	IZIVI	" "···					
	ANM	<ul> <li>← 100 Trying</li> <li>ANM ← 200 OK (INVITE)</li> </ul>					
	AINIVI	•	→ ACK				
	Apply post test i	routine	AON				
	Apply post tost i						

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

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

### 6.2.3 Malicious call identification

TP number	TP_303_001	Reference	7.4.4		
TSS reference	PSTN-SS/MCID/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/3	3			
Test Purpose name	MCID request before ACM				
Test Purpose	Ensure that a MCID request 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 →	<b>→</b>	IAM		
	100 Trying ←				
		<b>←</b>	IDR		
	CASE A	<b>→</b>	IRS		
	CASE B				
		Apply post test routine			

TP number	TP_303_002	Reference	7	7.4.4		
TSS reference	PSTN-SS/MCID/	•				
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/3				
Test Purpose name	MCID request after 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			•			
SIP Parameter values						
Comments						
Message flows	Mg	MGCF		ISUP		
	INVITE	→	<b>→</b>	AM		
	100 Trying	<b>←</b>				
	ACM	<b>←</b>	← ′	180 Ringing		
			←	DR		
	CASE A		<b>→</b>	RS		
	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/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	PICS 6.3.1/1 AND PICS 6.3.2/4			
Test Purpose name	isub parameter in the To heade	er is mapped into Called party	Subaddress		
Test Purpose	Ensure that on receipt of an init				
	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	g		
	Encoding of the Subaddress in	the IAM:			
	Type of Subaddress='NSAP'				
	Subaddress digits derived from	the uric of the isub parameter			
ISUP Parameter values	IAM: Access Transport				
	Called party subadd	Called party subaddress			
	Type of Subaddress=NSAP				
	Subaddress digit	Subaddress digits derived from the uric of the isub parameter			
SIP Parameter values	INVITE: To:				
	isub				
	uric Subaddr	uric Subaddress digits			
	isub-encoding: Not present				
		nsap-ia5			
	nsap-bcd				
		nsap			
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<del>-</del>	IAM		
	100 Trying ←				
		Apply post test routine			

TP number	TP_304_002	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	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 <b>isub-encoding</b> parameter is other then 'nsap-ia5', 'nsap-bcd' or 'nsap'				
ISUP Parameter values					
SIP Parameter values	INVITE: To:				
	isub				
	uric Subaddress digits				
	isub-encoding: <any token=""></any>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	100 Trying ←				
	Apply post test routine				

TP number	TP 304 003	Reference	7.4.5.2	
TSS reference	PSTN-SS/SUB/	-		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	.2/4		
Test Purpose name	isub parameter in the P-Ass	erted-Identity header is mapped	d 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			
		om the uric of the isub paramet	er	
ISUP Parameter values	IAM: Access Transport			
	Calling party subaddress			
	Type of Subaddress=NSAP			
	Subaddress digits derived from the uric of the isub parameter			
SIP Parameter values	INVITE: P-Asserted-Identi	ty:		
	isub			
	uric Subaddress digits			
	isub-encoding: Not present			
		nsap-ia5		
	nsap-bcd			
		nsap		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b> →	IAM	
	100 Trying	<b>←</b>		
		Apply post test routine		

TP number	TP_304_004	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/		•		
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/4			
Test Purpose name	isub parameter in th	e P-Asserted-Identity heade	r in the INVITE is not mapped		
Test Purpose	present in the P-Ass	Ensure that on receipt of an initial INVITE request, an IAM is sent. The isub parameter present in the P-Asserted-Identity header is not mapped into the Calling party Subaddress if the value of the <b>isub-encoding</b> parameter is other then 'nsap-ia5', 'nsap-bcd' or 'nsap'			
ISUP Parameter values					
SIP Parameter values	INVITE: P-Asserte	ed-Identity:			
	isub				
	uric Subaddress digits				
	isub-encoding: <any token=""></any>				
Comments					
Message flows	Mg MGCF ISUP				
	INVITE	<b>→</b>	→ IAM		
	100 Trying ←				
	Apply post test routine				

TP number	TP_304_005	Reference	7.4.5.2		
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/4	4			
Test Purpose name	Connected party Subaddress in P-Asserted-Identity header in the		sub parameter in the		
Test Purpose	Ensure that on receipt of an ANM message containing a Connected party Subaddress parameter in an Access Transport parameter, a 200 OK (INVITE) is sent and the P-Asserted-Identity header contains an isub parameter, the uric value is derived from the Connected Subaddress digits of the Connected party subaddress digits				
ISUP Parameter values	ANM: Access Transport				
	Connected party subaddress				
	Type of Subaddress=NSAP				
	Subaddress digits				
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric digits der	rived from the Connected party	Subaddress digits		
Comments					
Message flows	Mg MGCF ISUP				
	INVITE →	<b>→</b>	IAM		
	180 Ringing ← ← ACM				
	200 OK (INVITE)	<b>←</b>	ANM		
	ACK →				
		Apply post test routine			

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

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

TP number	TP_304_008	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PICS	6 6.3.2/4			
Test Purpose name	No mapping of Called P	Party subaddress in the IAM			
Test Purpose	Transport parameter, ar into an isub parameter p	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	Called party : Type of S	IAM: Access Transport Called party subaddress Type of Subaddress not NSAP Subaddress digits			
SIP Parameter values					
Comments					
Message flows	<b>M</b> g IAM	MGCF → Apply post test	ISUP  → INVITE  ← 100 Trying routine		

TP number	TP_304_009	Reference	7.4.5.3	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/4		
Test Purpose name	Mapping of Calling Party subaddress in the IAM into isub parameter in the P-Asserted- Identity header in the INVITE			
Test Purpose	Ensure that on receipt of an IAM containing a Calling party subaddress in the Access Transport parameter, an initial INVITE is sent. The Calling party subaddress is mapped into an isub parameter present in the <b>P-Asserted-Identity header</b> in the INVITE if the Type of number of the subaddress is equal to 'NSAP', the isub-encoding parameter is set to 'nsap-ia5'.			
ISUP Parameter values	IAM: Access Transport Calling party subaddress Type of Subaddress=NSAP Subaddress digits			
SIP Parameter values	INVITE: P-Asserted-Identity:			
Comments		·		
Message flows	Mg	MGCF	ISUP	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
		Apply post test re	outine	

TP number	TP_304_010	Reference	7.4.5.3		
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.1/1 AND I	PICS 6.3.2/4			
Test Purpose name	No mapping of Call	ling Party subaddress in the	IAM		
Test Purpose	Transport paramete into an isub parame	Ensure that on receipt of an IAM containing a Calling party subaddress in the Access Transport parameter, an initial INVITE is sent. The Calling party subaddress is not mapped into an isub parameter present in the P-Asserted-Identity header in the INVITE if the Type of number of the subaddress is not equal to 'NSAP'			
ISUP Parameter values	Calling p Type	·			
SIP Parameter values					
Comments					
Message flows	Mg MGCF ISUP				
	IAM	Apply post to	→ INVITE ← 100 Trying est routine		

TP number	TP_304_011	Reference		7.4.5.3	
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND	D PICS 6.3.2/4			
Test Purpose name	Mapping of isub p	parameter in the 200 OK in	to the Connecte	d party subaddress in the ANM	
Test Purpose				-Asserted-Identity in a 200 OK	
				napped in the Connected party	
				e ANM. If the isub-encoding	
		•	'nsap-bcd' or 'ns	ap' are relevant for mapping	
ISUP Parameter values	ANM: Access Tra	•			
		cted party subaddress			
	7 1	pe of Subaddress=NSAP			
		baddress digits derived fro	m the uric of the	isub parameter	
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
		uric Subaddress digits			
		isub-encoding: Not presen	nt		
		nsap-ia5			
	nsap-bcd				
Comments		nsap			
	Ma	MG	CE	ISUP	
Message flows	IAM	→			
		=	<del>7</del>	INVITE	
	ACM	<b>←</b>	<del>-</del>	180 Ringing	
	ANM	~	<b>→</b>	200 OK (INVITE)	
		Amplyma	-	ACK	
		Apply pos	st test routine		

TP number	TD 204 012	Reference	7.4.5.3			
	TP_304_012					
TSS reference	PSTN-SS/SUB/	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.1/1 AND PIC	PICS 6.3.1/1 AND PICS 6.3.2/4				
Test Purpose name	Mapping of isub param	eter in the 200 OK into the C	onnected party subaddress in the ANM			
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK (INVITE), an ANM is sent and the received Subaddress is not mapped in the Connected party subaddress present in the Access Transport parameter in the ANM If the isub-encoding parameter is present and the value is not equal to 'nsap-ia5', 'nsap-bcd' or 'nsap'					
ISUP Parameter values						
SIP Parameter values	200 OK: P-Asserted-Identity: isub					
	isub-	encoding: Not nsap-ia5, nsap	o-bcd, nsap			
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	<b>→</b>	→ INVITE			
	ACM	←	← 180 Ringing			
	ANM	<b>←</b>	€ 200 OK (INVITE)			
	ANNV ← 200 OK (INVITE)  → ACK					
	Apply post test routine					
	Apply post test routille					

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

TP number	TP_305_001	Reference	7.4.6.2.2		
			table 7.4.6.2.2.2		
TSS reference	PSTN-SS/CDIV/				
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Reason	Mapping of 181 hi-targeted-to-uri into early ACM Redirection number and Redirecting Reason			
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The called party status is set to 'no indication'. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number:</li> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string and sent in the Address signal of the Redirection number</li> <li>If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged and sent in the Address signal of the Redirection number</li> <li>The Redirecting reason in the Call Diversion Information parameter is set as indicated in table 6.2.5-1</li> </ul>				
ISUP Parameter values	ACM: Called party status=no indication 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?reason="SIP;cause=CAUSE_value">; index=1,</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 181 Call Is Being Forwarded		
	Apply post test routine				

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 6.3.1/1 AND F	PICS 6.3.2/5		
Test Purpose name			Notification subscription options	
Test Purpose			warded) containing a Privacy header, an	
	ACM is sent. The ca	alled party status is set to 'n	o indication'.	
	The Notification sub	scription options in the Call	Diversion Information parameter is set	
	according the Priva	cy header in the message b	ody as indicated in table 6.2.5-2	
ISUP Parameter values	ACM: Called party status=no indication			
	Call Diversion Information			
	Notification subscription options=SUBS_options			
SIP Parameter values	181:			
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<	sip:any proper URI>; index=	1.1	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>	
	Apply post test routine			

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

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

TP number	TP_305_003	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped Priva	cy header into early ACM Not	ification subscription options	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy header field in the last hi-targeted-to-uri, an ACM is sent. The called party status is set to 'no indication'.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-3			
ISUP Parameter values	ACM: Called party status=no indication Call Diversion Information Notification subscription options=SUBS options			
SIP Parameter values	181: History-Info: <pre></pre>			
Comments	Privacy and Reason header can appear in reverse order			
Message flows	ISUP	MGCF	Mg	
	IAM →		/ITE	
	ACM ← 181 Call Is Being Forwarded  Apply post test routine			

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

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

TP number	TP_305_004	Reference	7.4.6.2.2		
			table 7.4.6.2.2.3		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5			
Test Purpose name	Mapping of 181 Privacy	y header into early ACM Re	edirection number restriction		
Test Purpose		Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, an			
		d party status is set to 'no i			
	The Redirection number	er restriction is set accordin	g the Privacy header in the message		
	body as indicated in tal	ble 6.2.5-4			
ISUP Parameter values	ACM: Called party sta	tus=no indication			
	Redirection num	nber restriction= PRES_res	tr		
SIP Parameter values	181:				
	Privacy: <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>				
	<sip:< th=""><th>any proper URI&gt;; index=1.</th><th></th></sip:<>	any proper URI>; index=1.			
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_305_005	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/5		
Test Purpose name	Mapping of 181 escar	ped Privacy header into early	y ACM Redirection number restriction	
Test Purpose		Ensure that on receipt of 181 (Call Is Being Forwarded), an ACM is sent. The called party status is set to 'no indication'.		
	The Redirection numl History entry as indica		g the escaped Privacy header in the last	
ISUP Parameter values	ACM: Called party st	atus=no indication		
	Redirection nu	Redirection number restriction= PRES_restr		
SIP Parameter values	181:			
	History-Info:			
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></sip:any></pre>			
Comments				
Message flows	ISUP	MGCF	Mg	
_	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 181 Call Is Being Forwarded	
	Apply post test routine			

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

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

TP number	TP_305_006	Referen	nce	7.4.6.2.2 table 7.4.6.2.2.2,	
				table 7.4.6.2.2.7	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AN	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name		Mapping of 181 hi-targeted-to-uri into CPG Redirection number and Redirecting Reason			
Test Purpose	<ul> <li>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:</li> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string</li> <li>If the country code is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged. The Redirecting reason in the Call Diversion Information parameter is set as indicated in</li> </ul>				
ISUP Parameter values	table 6.2.5-5	ograna OB			
	CPG: Event=Progress OR     Event=Redirecting_Reason     Generic Notification     call is diverting     Redirection number     Derived from the last History-Info entry     Call Diversion Information     Redirecting reason= Redirecting_Reason				
SIP Parameter values	181: History-Info:	<sip:any <sip:any="" proper="" uri="" uri?=""></sip:any>		use= <b>CAUSE_value</b> >; index=1,	
Comments					
Message flows	ISUP		GCF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	CPG	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test routine				

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/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.5/1 AND PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri escaped Reason header into CPG Event indicator			
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The Event indicator is set to 'Redirecting_Reason' as indicated in table 6.2.5-6. The History-Info entry following the last History-Info entry containing a Reason header is mapped into the Redirection number:</li> <li>If CC is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string</li> <li>If the country code is not equal the country code where the SUT is located: Nature of</li> </ul>			
ICUD Devementes values	address indicator is set to 'international number' the digit string is used unchanged			
ISUP Parameter values	CPG: Event=Redirecting_Reason Generic Notification call is diverting Redirection number Derived from the last History-Info entry			
SIP Parameter values	181: History-Info: <sip:any proper="" uri?reason="SIP;cause=CAUSE_value">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments				
Message flows	ISUP IAM ACM CPG	MGCF  →  ←  Apply post test	Mg → INVITE ← 180 Ringing ← 181 Call Is Being Forwarded routine	

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

	CAUSE_value	Redirecting_Reason
VA_01	486	User busy
VA 02	408	No reply

TP number	TP_305_008	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Priv	Mapping of 181 Privacy header into CPG Notification subscription options		
Test Purpose	CPG is sent. The Ev	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a CPG is sent. The Event indicator is set to 'Progress'.		
		scription options in the Call D cy header in the message boo	iversion Information parameter is set ly as indicated in table 6.2.5-7	
ISUP Parameter values	CPG: Event=Progress			
	Call Diversio	Call Diversion Information		
	Notification subscription options=SUBS_options			
SIP Parameter values	181:			
	Privacy: <b>Priv-va</b>	Privacy: <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>			
	<9	sip:any proper URI>; index=1.	1	
Comments				
Message flows	ISUP MGCF Mg			
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
	CPG	<b>←</b>	← 181 Call Is Being Forwarded	
	Apply post test routine			

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

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

TP number	TP_305_009	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped Privacy header into CPG Notification subscription options			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing an escaped Privacy header field in the last hi-targeted-to-uri, a CPG is sent. The Event indicator is set to 'Progress'.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-8			
ISUP Parameter values	CPG: Event=Progress Call Diversion Information Notification subscription options=SUBS options			
SIP Parameter values	181: History-Info: <pre></pre>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b> IN\	/ITE	
	ACM ← 180 Ringing			
	CPG ← 181 Call Is Being Forwarded			
	Apply post test routine			

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

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

TP number	TP 305 010	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PI	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Priva	cy header into CPG Redire	ection number restriction	
Test Purpose		Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header in the		
		G is sent. The Event indica		
	The Redirection num	ber restriction is set accord	ing the Privacy header in the message	
	body as indicated in t	table 6.2.5-9		
ISUP Parameter values	CPG: Event=Progress			
	Redirection nu	Redirection number restriction= PRES_restr		
SIP Parameter values	181:			
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
	CPG	<b>←</b>	← 181 Call Is Being Forwarded	
	Apply post test routine			

TP number	TP 305 011	Reference	7.4.6.2.2
			table 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 escaped Priv	acy header into CPG Redire	ection number restriction
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), a CPG is sent. The Event indicator		
	is set to 'Progress'.		
	The Redirection number restr	iction is set according the es	scaped Privacy header in the last
	History entry as indicated in table 6.2.5-9		
ISUP Parameter values	CPG: Event=Progress		
	Redirection number restriction= PRES_restr		
SIP Parameter values	181:		
	History-Info:		
	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<pre><sip:any proper="" uri?privacy="Priv-value">; index=1.1</sip:any></pre>		
Comments			
Message flows	ISUP MGCF Mg		
	IAM →	<b>→</b>	NVITE
	ACM ←	<b>←</b>	180 Ringing
	CPG ←	<b>←</b>	181 Call Is Being Forwarded
	Apply post test routine		

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

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

TP number	TP 305 012	Reference	7.4.6.2.2
	11 _000_012	11010101100	table 7.4.6.2.2.2,
			table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 180 hi-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:	,,
	· · · · · · · · · · · · · · · · · ·		ed: Nature of address indicator
		cant) number', the country co	
	string	•	J
	If the country code is not of	equal the country code where	the SUT is located: Nature of
		'international number' the d	
	The Redirecting reason in the Call Diversion Information parameter is set as indicated in		
	table 6.2.5-10		
ISUP Parameter values	ACM: Called party status=subscriber free		
	Generic Notification		
	call is diverting		
	Redirection number		
	Derived from the last History-Info entry		
	Call Diversion Information		
		= Redirecting_Reason	
SIP Parameter values	180:		
	History-Info: <sip:any proper="" uri?reason="SIP;cause=&lt;b">CAUSE_value&gt;; index=1,</sip:any>		
	<sip:any proper="" uri="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	
	IAM ->	= ::::	/ITE
	ACM ← 180 Ringing		
	Apply post test routine		

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

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

TP number	TP_305_013	Refer	ence	7.4.6.2.2
				table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 ANI	D PICS 6.3.2/5		
Test Purpose name	Mapping of 180 F	Privacy header into A	CM Notification su	ubscription options
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header in the message body,			
		The called party stat		
	The Notification s	subscription options	n the Call Diversion	on Information parameter is set
				ndicated in table 6.2.5-11
ISUP Parameter values	ACM: Called party status=subscriber free			
	Call Divers	Call Diversion Information		
	Notification subscription options=SUBS_options			
SIP Parameter values	180:			
	Privacy: <b>Priv</b> -	Privacy: <b>Priv-value</b>		
	History-Info:	<sip:any proper="" th="" ur<=""><th>I?Reason=SIP;ca</th><th>use=any value&gt;; index=1,</th></sip:any>	I?Reason=SIP;ca	use=any value>; index=1,
		<sip:any proper="" th="" ur<=""><th>I; index=1.1</th><th></th></sip:any>	I; index=1.1	
Comments				
Message flows	ISUP		MGCF	Mg
	IAM	<b>→</b>	<b>→</b>	INVITE
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	Apply post test routine			ne

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/	·	<u>.</u>	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 180 escap	ped Privacy header into ACM	Notification subscription options	
Test Purpose	last hi-targeted-to-uri, The Notification subs	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	d Filvacy fleader in the last i	listory entry as indicated in	
ISUP Parameter values	ACM: Called party st Call Diversion	ACM: Called party status=subscriber free Call Diversion Information Notification subscription options=SUBS_options		
SIP Parameter values	180: History-Info: <sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?<i="">Privacy=<i>Priv-value</i>&gt;; index=1.1</sip:any></sip:any>			
Comments		<u> </u>		
Message flows	ISUP	MGCF	Mg	
-	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
		Apply post test	routine	

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

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

TP number	TP_305_015	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 180 Pr	ivacy header into ACM Red	direction number restriction	
Test Purpose	an ACM is sent. The	Ensure that on receipt of 180 (Ringing) containing a Privacy header in the message body, an ACM is sent. The called party status is set to 'subscriber free'.		
		The Redirection number restriction is set according the Privacy header in the message body as indicated in table 6.2.5-13		
ISUP Parameter values	ACM: Called party status=subscriber free Redirection number restriction= PRES restr			
SIP Parameter values	181:  Privacy: Priv-value  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,  <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
		Apply post	test routine	

TP number	TP_305_016	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5		
Test Purpose name	Mapping of 180 escap	ed Privacy header into AC	M Redirection number restriction	
Test Purpose	targeted-to-uri, an ACI	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header in the last hitargeted-to-uri, an ACM is sent. The called party status is set to 'subscriber free'.		
	History entry as indica		ng the escaped Privacy header in the last	
ISUP Parameter values	ACM: Called party sta	ACM: Called party status=subscriber free		
	Redirection number restriction= PRES_restr			
SIP Parameter values	181: History-Info:			
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1, <sip:any proper="" uri?privacy="Priv-value"> ; index=1.1</sip:any></sip:any></pre>			
Comments				
Message flows	ISUP MGCF Mg		Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
	Apply post test routine			

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

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

TP number	TP_305_017	Reference	7.4.6.2.2	
	11 _000_017	11010101100	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/		table 1.4.0.2.2.3	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/5		
Test Purpose name	Mapping of 180 hi-targeted-to-uri into CPG Redirection number and Redirecting Reason			
Test Purpose	Ensure that on receipt of 180 (			
		entry concerning the diverte	d-to number is mapped into the	
	Redirection number:			
			ted: Nature of address indicator	
	, -	cant) number, the country	code is removed from the digit	
	string			
			e the SUT is located: Nature of	
	address indicator is set to	address indicator is set to 'international number' the digit string is used unchanged.		
ISUP Parameter values	CPG: Event=ALERTING			
	Generic Notification			
	call is diverting			
	Redirection number			
		Derived from the last History-Info entry		
	Call Diversion Information			
	Redirecting reasons	= any value		
SIP Parameter values	181:			
	History-Info: <sip:any pro<="" th=""><th>per URI?Reason=SIP;cause</th><th>e=any value&gt;; index=1,</th></sip:any>	per URI?Reason=SIP;cause	e=any value>; index=1,	
	<sip:any pro<="" th=""><th>per URI&gt;; index=1.1</th><th></th></sip:any>	per URI>; index=1.1		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	NVITE	
	ACM ←	<b>←</b> 1	81 Call Is Being Forwarded	
	CPG ←		80 Ringing	
	CFG T		ou Kiligilig	

#### Table 6.2.5-14: Void

TP number	TP_305_018	Reference	7.4.6.2.2	
			table 7.4.6.2.2.4	
TSS reference	PSTN-SS/CDIV/	•		
Selection criteria	PICS 6.3.1/1 AND	D PICS 6.3.2/5		
Test Purpose name	Mapping of 180 P	Mapping of 180 Privacy header into CPG Notification subscription options		
Test Purpose	Event indicator is	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a CPG is sent. The Event indicator is set to 'ALERTING'.		
			I Diversion Information parameter is set body as indicated in table 6.2.5-15	
ISUP Parameter values	Call Divers	CPG: Event=ALERTING Call Diversion Information Notification subscription options=SUBS options		
SIP Parameter values	180:  **Privacy: *Priv-value**  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1, <sip:any proper="" uri="">; index=1.1</sip:any></sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM ACM CPG	→ ← ← Apply post t	→ INVITE ← 181 Call Is Being Forwarded ← 180 Ringing est routine	

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

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

TP number	TP_305_019	Reference	7.4.6.2.2
			table 7.4.6.2.2.4
TSS reference	PSTN-SS/CDIV/		·
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of 180 escaped Priva	cy header into CPG Notificati	on subscription options
Test Purpose	Ensure that on receipt of 180 (Ringing) containing an escaped Privacy header field in the last hi-targeted-to-uri, a CPG is sent. The Event indicator is set to 'ALERTING'.  The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.2.5-16		
ISUP Parameter values	CPG: Event=ALERTING Call Diversion Information Notification subscription options=SUBS options		
SIP Parameter values	180: History-Info: <pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any></pre> <sip:any proper="" uri?<i="">Privacy=Priv-value&gt;; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ IN	VITE
	ACM ←	<b>←</b> 18	1 Call Is Being Forwarded
	CPG ←	<b>←</b> 18	0 Ringing
	Apply post test routine		

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

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

TP number	TP 305 020	Reference	7.4.6.2.2	
	11 _000_020	1101010100	table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/5		
Test Purpose name	Mapping of 180 Priva	cy header into CPG Redirect	ion number restriction	
Test Purpose	Ensure that on receip	ot of 180 (Ringing) containing	a Privacy header, a CPG is sent. The	
	Event indicator is set	to 'ALERTING'.		
	The Redirection num	ber restriction is set according	g the Privacy header in the message	
	body as indicated in t	able 6.2.5-17		
ISUP Parameter values	CPG: Event=ALERT	CPG: Event=ALERTING		
	Redirection nu	umber restriction= PRES_rest	tr	
SIP Parameter values	180:	180:		
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	←	← 181 Call Is Being Forwarded	
	CPG	<b>←</b>	← 180 Ringing	
	Apply post test routine			

TP number	TP 305 021	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/5		
Test Purpose name			PG Redirection number restriction	
Test Purpose	Ensure that on receip	t of 180 (Ringing), a CPG	is sent. The Event indicator is set to	
	'ALERTING'.			
	The Redirection number	per restriction is set accord	ling the escaped Privacy header in the last	
	History entry as indica	ated in table 6.2.5-17		
ISUP Parameter values	CPG: Event=ALERT	CPG: Event=ALERTING		
	Redirection nu	Redirection number restriction= PRES_restr		
SIP Parameter values	180:			
	History-Info:			
	<sip:any prope<="" th=""><th colspan="3"><sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any></th></sip:any>	<sip:any proper="" uri?reason="SIP;cause=any">; index=1,</sip:any>		
	<sip:any privacy="Priv-value" proper="" uri?="">; index=1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>	
	CPG	<b>←</b>	← 180 Ringing	
	Apply post test routine			

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

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

TP number	TP_305_022	Reference	7.4.6.2.2 table 7.4.6.2.2.2 table 7.4.6.2.2.10	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PI	ICS 6.3.2/5		
Test Purpose name	Mapping of 200 hi-ta	rgeted-to-uri into ANM R	edirection number	
Test Purpose	<ul> <li>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:</li> <li>If 'CC' is equal the country code where the SUT is located:         <ul> <li>Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string</li> </ul> </li> <li>If the 'CC' is not equal the country code where the SUT is located:         <ul> <li>Nature of address indicator is set to 'international number' the digit string is used unchanged.</li> </ul> </li> </ul>			
ISUP Parameter values	ANM: Redirection no			
OID Developed		rom the last History-Inf	o entry	
SIP Parameter values		p:any proper URI?Reaso p: <b>any proper URI</b> >; inde	on=SIP;cause=any value>; index=1, ex=1.1	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	★ 180 Ringing	
	ANM	<b>←</b>	← 200 OK INVITE	
			→ ACK	
		Apply post test routine		

TP number	TP_305_023	Reference	7.4.6.2.2 table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/		10.0.0	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 200 Privacy heade	r into ANM Redirection num	ber restriction	
Test Purpose	Ensure that on receipt of 200 C			
	The Redirection number restric		vacy header in the message	
	body as indicated in table 6.2.5	i-18		
ISUP Parameter values	<b>ANM:</b> Redirection number res	ANM: Redirection number restriction= PRES_restr		
SIP Parameter values	200:			
	Privacy: <b>Priv-value</b>			
	History-Info: <sip:any prop<="" th=""><th>per URI?Reason=SIP;cause</th><th>e=any value&gt;; index=1,</th></sip:any>	per URI?Reason=SIP;cause	e=any value>; index=1,	
	<sip:any prop<="" th=""><th>er URI&gt;; index=1.1</th><th></th></sip:any>	er URI>; index=1.1		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM ->	<b>→</b> II	NVITE	
	ACM ←	<b>←</b> 1	80 Ringing	
	ANM <b>←</b>	<b>←</b> 2	00 OK INVITE	
		<b>→</b> A	.CK	
		Apply post test routine		

TP number	TP 305 024	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/5		
Test Purpose name	Mapping of 200 escap	ed Privacy header into ANN	1 Redirection number restriction	
Test Purpose	Ensure that on receipt	of 200 OK (INVITE), an AN	M is sent.	
	The Redirection numb	er restriction is set accordin	g the escaped Privacy header in the last	
	History entry as indica	ted in table 6.2.5-18		
ISUP Parameter values	ANM: Redirection nu	ANM: Redirection number restriction= PRES_restr		
SIP Parameter values	200:	200:		
	History-Info:			
	<sip:any prope<="" th=""><th>r URI?Reason=SIP;cause=a</th><th>any&gt;; index=1,</th></sip:any>	r URI?Reason=SIP;cause=a	any>; index=1,	
	<sip:any prope<="" th=""><th>r URI?<i>Privacy=<b>Priv-value</b>&gt;</i></th><th>index=1.1</th></sip:any>	r URI? <i>Privacy=<b>Priv-value</b>&gt;</i>	index=1.1	
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ACM	<b>←</b>	← 180 Ringing	
	ANM	<b>←</b>	← 200 OK INVITE	
			→ ACK	
		Apply post test routine		

TP number	TP_305_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/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5		
Test Purpose name	Mapping of 200 hi-targeted-to-	uri into CON Redirection nui	mber	
Test Purpose	Ensure that on receipt of 200 OK (INVITE) a CON is sent. The History-Info entry following the last History-Info entry in the format +'CC+NDC+SN' containing a Reason header is mapped into the Redirection number:  If 'CC' is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', the country code is removed from the digit string  If 'CC' is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' the digit string is used unchanged			
ISUP Parameter values	CON: Redirection number  Derived from the last	st History-Info entry		
SIP Parameter values	200:  History-Info: <sip:any proper="" uri?reason="SIP;cause=any" value="">; index=1,</sip:any>			
Comments				
Message flows	ISUP IAM → ANM ←	← 2	<b>Mg</b> NVITE 00 OK INVITE CK	

TP number	TP_305_026	Reference	7.4.6.2.2	
			table 7.4.6.2.2.3	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND P	ICS 6.3.2/5		
Test Purpose name	Mapping of 200 Priva	acy header into CON Re	direction number restriction	
Test Purpose	The Redirection num	Ensure that on receipt of 200 OK (INVITE) containing a Privacy header, a CON is sent. The Redirection number restriction is set according the Privacy header in the message body as indicated in table 6.2.5-18		
ISUP Parameter values	CON: Redirection n	umber restriction= PRES	_restr	
SIP Parameter values	<s< th=""><th></th><th></th></s<>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	ANM	<del>-</del>	← 200 OK INVITE	
			→ ACK	
	Apply post test routine			

TP number	TP_305_027	Reference	7.4.6.2.2
			table 7.4.6.2.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of 200 escaped Priva	cy header into CON Redire	ection number restriction
Test Purpose	Ensure that on receipt of 200 C		
	The Redirection number restric	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 res	triction= PRES_restr	
SIP Parameter values	200:		
	History-Info:		
	<sip:any proper="" th="" uri&r<=""><th>eason=SIP;cause=any&gt;; ir</th><th>ndex=1,</th></sip:any>	eason=SIP;cause=any>; ir	ndex=1,
		<i>ivacy=<b>Priv-value</b>&gt;</i> ; index=	=1.1
	<sip:any proper="" uri="">; index=1.2</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	<b>→</b>	INVITE
	ANM ←	<del>-</del>	200 OK INVITE
		<b>→</b>	ACK
	Apply post test routine		

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

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

TP number	TP_305_028	Reference	7.4.6.2.3	
			table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5		
Test Purpose name	Mapping of Redirecting number	r Address Signals		
Test Purpose	Ensure that on receipt of an IAI	M containing a Redirecting r	number parameter and a	
	Redirection Information parame	eter, an INVITE request is s	ent and a History-Info header is	
	present. The value of the secor	nd last hi-targeted-to-uri Val	ue of Redirecting number is	
	mapped from the Redirecting n	umber Address Signals as i	ndicated in table 6.2.5-19	
ISUP Parameter values	IAM: Redirecting number			
	Nature of Address: N	loA_value		
	Address Signals <ar< th=""><th colspan="3">Address Signals <any appropriate="" value=""></any></th></ar<>	Address Signals <any appropriate="" value=""></any>		
	Redirection Information			
	Original called number			
SIP Parameter values	INVITE:			
	History-Info:			
	<sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>			
	<pre><sip:value number?reason="SIP;cause=any" of="" redirecting="">; index=1.1,</sip:value></pre>			
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b> IN	IVITE	
	Apply post test routine			

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

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

TP number	TP_305_029	Reference	7.4.6.2.3	
			table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	·	<u>.</u>	
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5		
Test Purpose name	Mapping of Redirecting	number Address presentati	on restricted indicator	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter, an INVITE request is sent and a History-Info header is present. A Privacy header is escaped in the second last hi-targeted-to-uri and the <b>PRIV_value</b> is mapped from the Address presentation restricted indicator of the Redirecting number as indicated in table 6.2.5-20			
ISUP Parameter values	IAM: Redirecting number     Address presentation restricted indicator: APRI_value     Redirection Information     Original called number			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,     <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → 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				
			table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5	5			
Test Purpose name	Mapping of 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 <b>PRIV_value</b> is mapped from the Redirecting indicator of the Redirection Information as indicated in table 6.2.5-21				
ISUP Parameter values	IAM: Redirection Information Redirecting indicator=RDIND value				
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,     <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1</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
VA_03	Call diverted AND Redirecting number APRI	history
	presentation restricted	_

TP number	TP_305_031	Reference	7.4.6.2.3	
			table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AN	ID PICS 6.3.2/5		
Test Purpose name	Mapping of Redi	rection Information Redirect	ion counter	
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number and a Redirection Information parameter, an INVITE request is sent and a the hi-targeted-to-uri and the index parameter of the Redirection counter as indicated in table 6.2.5-22			
ISUP Parameter values	IAM: Redirection Redirection	on Information ection counter= <b>RDCONT_va</b>	alue	
SIP Parameter values	INVITE: History-Info:	ENTRY_values		
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM	<b>→</b>	→ INVITE	
	Apply post test routine			

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

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

TP number	TP_305_032	Reference	7.4.6.2.3		
			table 7.4.6.2.3.1		
TSS reference	PSTN-SS/CDIV/	•	·		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of Redir	ection Information Original re-	direction 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 <b>'unknown'</b> of the Redirection Information is mapped into the cause parameter value <b>'404'</b> of the first hi-targeted-to-uri of the History-Info header in the sent INVITE.				
ISUP Parameter values	IAM: Redirection Information Original redirection reason=unknown				
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE  Apply post test routine				

Table 6.2.5-23: Void

TP number	TP_305_033	Reference		7.4.6.2.3	
				table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/	<u>.</u>			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of Redire	ection Information Redirectir	ng 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 Redirecting reason indicator <b>REAS_value</b> of the Redirection Information is mapped into the cause parameter <b>Cause_value</b> of the second last hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.2.5-24				
ISUP Parameter values	IAM: Redirection Information				
SIP Parameter values	Redirecting reason =REAS_value				
SIF Parameter values	INVITE:  History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	Apply post test routine				

Table 6.2.5-24: 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

				I	
TP number	TP_305_034	R	eference	7.4.6.2.3	
				table 7.4.6.2.3.1	
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AN	D PICS 6.3.2/5			
Test Purpose name	Mapping of Calle	ed party number	Address Signals		
Test Purpose	Ensure that on re	Ensure that on receipt of an IAM containing a Redirecting number parameter and a			
	Redirection Infor	mation paramete	er, an INVITE request	is sent and a History-Info header is	
	present. The Cal	lled party numbe	r is mapped into the la	ast hi-targeted-to-uri of the	
	History-Info head	History-Info header as indicated in table 6.2.5-25			
ISUP Parameter values	IAM: Called party number				
	Nature of Address: NoA_value				
	Address Signals				
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri?reason="SIP;cause=404">; index=1,</sip:any>				
	<pre><sip:any proper="" uri?reason="SIP;cause=any">; index=1.1</sip:any></pre>				
	<pre><sip:value called="" number="" of="" party="">; index=1.1.1</sip:value></pre>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM	<b>→</b>	<b>→</b>	INVITE	
	Apply post test routine				

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

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

TP number	TP_305_035		Reference		7.4.6.2.3
					table 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of Origi	nal called num	ber Address Signa	als	
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				
			d number Address	Signals as i	ndicated in table 6.2.5-26
ISUP Parameter values	IAM: Original called number				
	Nature of Address: <b>NoA_value</b>				
	Addre	ss Signals < <b>D</b> i	gits>		
SIP Parameter values	INVITE:				
	History-Info: <sip:original called="" number?reason="SIP;cause=404">; index=1 <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1 <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:original>				
Comments					
Message flows	ISUP MGCF Mg		Mg		
	IAM → INVITE			TE	
	Apply post test routine				

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

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

TP number	TP 305 036	Refe	rence	7.4.6.2.3
				table 7.4.6.2.3.1
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AN	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name				n restricted indicator
Test Purpose				called number parameter, an
				sent. A Privacy header escaped in
				d from the Address presentation
			led number as indic	cated in table 6.2.5-27
ISUP Parameter values	IAM: Original c	alled number		
		ss presentation rest		RI_value
	Addre	Address Signals <any appropriate="" value=""></any>		
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=404&lt;/th"><th>alue&amp;Reason=SIP;cause=404&gt;;</th></sip:any>			alue&Reason=SIP;cause=404>;
		index=1,		
				use=any>; index=1.1
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	ISUP MGCF Mg		Mg	
	IAM → INVITE			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/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name		d entry containing a Reason he	eader is mapped into	
Test Purpose	Redirecting number Nature of address indicator  Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Nature of address indicator</b> of the Redirecting number is mapped from the latest History-Info header field entry in the format +'CC+NDC+SN' containing a Reason header as indicated in table 6.2.5-28			
ISUP Parameter values	IAM: Redirecting number  Nature of address in	ndicator= <b>NoA_value</b>		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,  <sip:second entry="" last="" uri?reason="SIP;cause=any">; index=1.1,  <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:second></sip:any>			
Comments	(Spielly proper of the finance of th			
Message flows	Mg INVITE =		ISUP IAM	
	Apply post test routine			

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

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

TP number	TP_305_038	Reference	7.4.6.3.2	
			table 7.4.6.3.2.2	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PIC	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name Latest History-Info header field entry containing a Reason header is mapped in			eason header is mapped into	
	Redirecting number Ac	ldress signal		
Test Purpose			ing a History-Info header, an IAM is	
			imber and a Redirection information	
			edirecting number is mapped from the	
	_		CC+NDC+SN' containing a Reason	
	header as indicated in	table 6.2.5-29		
ISUP Parameter values	IAM: Redirecting nun			
	Address signal derived from the second last Hist-entry			
SIP Parameter values	INVITE:			
		any proper URI>; index=1,		
		-	son=SIP;cause=any>; index=1.1,	
	<sip:< th=""><th>any proper URI&gt;; index=1.1.1</th><th></th></sip:<>	any proper URI>; index=1.1.1		
Comments				
Message flows	Mg MGCF ISUP		ISUP	
	INVITE	<b>→</b>	→ IAM	
	100 Trying	<b>←</b>		
	Apply post test routine			

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

Second last entry URI	NoA_value
	'+CC' is removed from the userpart digit string used in the Redirecting number Address signal
	'+' is removed from the userpart digit string used in the Redirecting number Address signal

TP number	TP_305_039	Reference	7.4.6.3.2
			table 7.4.6.3.2.2
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Latest History-Info header field entry containing a Reason header escaped Privacy header		
	is mapped into Redirecting nun		
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting number		
	parameter is present. The Add		
	number is mapped from the es		
	entry containing a Reason hea	der as indicated in table 6.2.5-	30
ISUP Parameter values	IAM: Redirecting number		
	Address presentatio	n restricted indicator=APRI_va	alue
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any appropriate="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,</sip:any></pre>		
	<sip:any proper="" uri="">; in</sip:any>	ndex=1.1.1	·
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
Apply post test routine			

TP number	TP_305_040	Reference	7.4.6.3.2
			table 7.4.6.3.2.2
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Privacy header is mapped into Redirecting number Address presentation restricted indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Redirecting number is mapped from the Privacy header of the received INVITE request as indicated in table 6.2.5-30		
ISUP Parameter values	IAM: Redirecting number Address presentation restricted indicator=APRI value		
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>		
Comments		,	
Message flows	Mg INVITE -3 100 Trying	•	ISUP IAM
		Apply post test routine	

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

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

TP number	TP 305 041	Reference	7.4.6.3.2
			table 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/	,	,
Selection criteria	PICS 6.3.1/1 AND PIC	S 6.3.2/5	
Test Purpose name	Escaped Privacy head	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 <b>Redirecting indicator</b> of the Redirection information is mapped from the escaped Privacy header of the latest History-Info header field entry containing a Reason header in the received INVITE request as indicated in table 6.2.5-31		
ISUP Parameter values	IAM: Redirection information Redirecting indicator=RDIND_value		
SIP Parameter values	INVITE:  History-Info: <sip:any appropriate="" uri="">; index=1,     <sip:any proper="" uri?privacy="PRIV_value&amp;Reason=SIP;cause=any">; index=1.1,     <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:any>		
Comments			
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test re	ISUP → IAM

TP number	TP_305_042	Reference	7.4.6.3.2
			table 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	5	
Test Purpose name	Privacy header is mapped into	Redirection information Redire	ecting indicator
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting indicator</b> of the Redirection information is mapped from the Privacy header in the received INVITE request as indicated in table 6.2.5-31		
ISUP Parameter values	IAM: Redirection information Redirecting indicate		
SIP Parameter values		ropriate URI>; index=1, per URI?Reason=SIP;cause=a per URI>; index=1.1.1	ny>; index=1.1,
Comments	Sip.arry pro	501 61(12, 111d6X=1.1.1	
Message flows	Mg MGCF ISUP		
	INVITE +	<b>→</b>	IAM
	Apply post test routine		

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

	PRIV_value	RDIND_value
VA_01		Call diverted, all redirection info presentation restricted
VA 02		Call diverted, all redirection info
VA_02		presentation restricted
VA_03	header	Call diverted, all redirection info
		presentation restricted
VA_04	none	Call diverted
VA_05	Privacy header field absent	Call diverted

TP number	TP_305_043	Reference	7.4.6.3.2	
			table 7.4.6.3.2.3	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/5		
Test Purpose name	cause value is map	ped into Redirection information	Redirecting reason	
Test Purpose	sent and a Redirect parameter is preser from the cause para	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting reason</b> of the Redirection information is mapped from the cause parameter of the Reason header of the latest History-Info header field entry containing a Reason header in the received INVITE request as indicated in table 6.2.5-32		
ISUP Parameter values	IAM: Redirection information  Original redirection reason=unknown/not available  Redirecting reason=REAS_value			
SIP Parameter values	INVITE:  History-Info: <sip:any appropriate="" uri="">; index=1,</sip:any>			
Comments				
Message flows	Mg INVITE 100 Trying	MGCF → ←	→ IAM	
	Apply post test routine			

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

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

TP number	TP_305_044	Reference	7.4.6.3.2
			table 7.4.6.3.2.3
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.1/1 AND P	PICS 6.3.2/5	
Test Purpose name	Hi-index is mapped i	into Redirection information F	Redirection counter
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirection counter</b> of the Redirection information is mapped from the hi-index of the last History-Info header field entry in the received INVITE request as indicated in table 6.2.5-33. 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: EN	NTRY_values	
Comments			
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post tes	ISUP → IAM t routine

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

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

TP number	TP_305_045	Reference	7.4.6.3.2	
			table 7.4.6.3.2.4	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	<sup>'</sup> 5		
Test Purpose name	First History-Info header field	entry is mapped into Original c	alled number Nature of	
	address indicator			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is			
	sent and a Redirecting numbe			
	parameter is present. The Nat			
	mapped from the first History-	nfo header field entry in the fo	rmat +'CC+NDC+SN' as	
	indicated in table 6.2.5-34			
ISUP Parameter values	IAM: Original called number			
	Numbering Plan Indicator=ISDN (Telephony) numbering plan			
		(Recommendation E.	<i>164 [</i> i.1 <i>]</i> )	
	Nature of address in	ndicator= <b>NoA_value</b>		
SIP Parameter values	INVITE:			
	History-Info: <sip:first er<="" th=""><th>ntry URI&gt;; index=1,</th><th></th></sip:first>	ntry URI>; index=1,		
		per URI?Reason=SIP;cause=	any>; index=1.1,	
	<sip:any proper="" uri="">; index=1.1.1</sip:any>			
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying	•		
	Apply post test routine			

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

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

TP number	TP_305_046	Reference	7.4.6.3.2
			table 7.4.6.3.2.4
TSS reference	PSTN-SS/CDIV/	•	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/5	
Test Purpose name	First History-Info header field	entry is mapped into Original 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 <b>Address signal</b> of the Original called number is mapped from the first History-Info header field entry in the format <b>+'CC+NDC+SN'</b> as indicated in table 6.2.5-35.		
ISUP Parameter values	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		MGCF	ISUP IAM
		Apply post test routine	

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

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

TP number	TP 305 047	Reference	7.4.6.3.2	
			table 7.4.6.3.2.4	
TSS reference	PSTN-SS/CDIV/	•	•	
Selection criteria	PICS 6.3.1/1 AND PI	ICS 6.3.2/5		
Test Purpose name	First History-Info header field entry escaped Privacy header is mapped into Original called number Address presentation restricted indicator			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Original called number is mapped from the escaped Privacy header of the first History-Info header field entry as indicated in table 6.2.5-36			
ISUP Parameter values	IAM: Original called			
	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:			
	History-Info: <sip:any appropriate="" uri?privacy="&lt;b">PRIV_value&gt;; index=1, <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1, <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP 305 048	Reference	7.4.6.3.2		
			table 7.4.6.3.2.4		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Privacy header is mapped into Original called number Address presentation restricted indicator				
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Original called number is mapped from the Privacy header of the received INVITE request as indicated in table 6.2.5-36				
ISUP Parameter values	IAM: Original called Address presentation restricted indicator=APRI value				
SIP Parameter values	INVITE:  Privacy: PRIV_value  History-Info: <sip:any appropriate="" uri="">; index=1,  <sip:any proper="" uri?reason="SIP;cause=any">; index=1.1,  <sip:any proper="" uri="">; index=1.1.1</sip:any></sip:any></sip:any>				
Comments					
Message flows	Mg INVITE +	•	ISUP IAM		
	Apply post test routine				

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

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

TP number	TP_305_049	R	eference		7.4.6.3.3	3
					table 7.4	
					table 7.4	*
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of ACM	Mapping of ACM Redirection number into 181 (Being forwarded) History-Info header				
Test Purpose						version parameter is
			ersion occurred, a 1			
					History-In	fo header containing
			dicated in table 6.2.	5-37		
ISUP Parameter values	ACM: Backward	call indicator				
		Called party statue='no indication'				
		Generic notification=call is diverting				
		Call diversion information				
		Redirection number				
		Nature of address indicator=NOA_value				
		Address signal <b>Digits</b>				
SIP Parameter values	181:					
	History-Info:	History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
		<sip: last_hi<="" th=""><th>ST_URI;cause=any</th><th>&gt;; index</th><th>=1.1</th><th></th></sip:>	ST_URI;cause=any	>; index	=1.1	
	OR					
	History-Info:	History-Info: <sip:unknown@unknown.invalid?reason=sip;cause=any>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=any>				
		<sip: last_hist_uri="">; index=1.1</sip:>				
Comments						
Message flows	Mg	_	MGCF	_		ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	181 Being forward	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	national (significant) number	Add '+' and CC (of the country where the MGCF is located) to Redirection number Address Signals then map to user portion of the last hi-targeted-to-uri in the format '+ CC NDC SN'.
VA_01	international number	Map complete Redirection number Address Signals and '+' to user portion of the last hi-targeted-to-uri in the format '+ CC NDC SN'

TP number	TP_305_050	Reference	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.3		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	NOT PICS 6.3.5/2 AND PICS	6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of ACM Redirecting r parameter	eason into 181 (Being forward	ed) History-Info header cause		
Test Purpose			the Call diversion parameter is		
			ng forwarded) is sent. The Call		
	diversion information Redirecti				
	hi-targeted-to-uri in a History-li		ndicated in table 6.2.5-38		
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:				
	<pre><sip:unknown@unknown.invalid>; index=1, <sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1</sip:derived></sip:unknown@unknown.invalid></pre>				
	<sip:derived from="" redir<="" th=""><th>ection number;cause=<b>Cause</b>_</th><th>_value&gt;; index=1.1</th></sip:derived>	ection number;cause= <b>Cause</b> _	_value>; index=1.1		
	or				
	History-Info:				
	<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>				
	<sip:derived from="" number="" redirection="">; index=1.1</sip:derived>				
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			
Ti Hamber	11 _303_031	Reference	table 7.4.6.3.3.1,			
			table 7.4.6.3.3.1,			
TSS reference	PSTN-SS/CDIV/					
Selection criteria		4 AND DIOC 0 0 0/5				
		PICS 6.3.5/2 AND PICS 6.3.1/1 AND PICS 6.3.2/5 Mapping of ACM Redirecting reason into 181 (Being forwarded) History-Info header				
Test Purpose name		eason into 181 (Being forwarde	ed) History-Info header			
_	Reason header					
Test Purpose	Ensure that on receipt of an AC					
	present as an indication a call					
	diversion information Redirection					
	last hi-targeted-to-uri in a Histo	ry-Info header in the sent 181	as indicated in table 6.2.5-39			
ISUP Parameter values	<b>ACM:</b> Backward call indicator	ACM: Backward call indicator				
	Called party status=	Called party status=no indication				
	Generic notification=call is diverting					
	Redirection number	Redirection number				
	Call diversion information	Call diversion information				
	Redirecting reason :	Redirecting reason =REAS_value				
SIP Parameter values	181:					
	History-Info:					
	<sip:unknown@unknow< th=""><th>n.invalid&gt;; index=1,</th><th></th></sip:unknown@unknow<>	n.invalid>; index=1,				
	<sip:derived from="" number;cause="Cause_value" redirection="">; index=1.1</sip:derived>					
	or					
	History-Info:					
		<pre><sip:unknown@unknown.invalid?reason=sip;cause=cause_value>; index=1,</sip:unknown@unknown.invalid?reason=sip;cause=cause_value></pre>				
	<pre><sip:derived from="" number="" redirection="">; index=1.1</sip:derived></pre>					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE -		IAM			
	181 Being forwarded		ACM			
	To Early for Wardou	Apply post test routine	,			
	Apply post test routine					

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

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

TP number	TP 305 052	Reference	7.4.6.3.3		
	000_00_		table 7.4.6.3.3.1,		
			table 7.4.6.3.3.3		
TSS reference	PSTN-SS/CDIV/		14510 7 . 1.0.0.0.0		
Selection criteria	PICS 6.3.1/1 AND PICS	S 6.3.2/5			
Test Purpose name	Mapping of ACM Notific	cation subscription options r	no 181 (Being forwarded) is sent		
Test Purpose	Ensure that on receipt	of an ACM a Redirection nu	mber and the Call diversion parameter is		
	present as an indication	n a call diversion occurred, i	f the Call diversion information		
	Notification subscription	Notification subscription options is set to <b>presentation not allowed</b> no 181 (Being			
	forwarded) is sent				
ISUP Parameter values	ACM:				
	Generic notification=call is diverting				
	Redirection num	Redirection number			
	Call diversion in	Call diversion information			
	Notification subscription options=presentation not allowed				
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b>	→ IAM		
			← ACM		
	Apply post test routine				

TP number	TP_305_053	Reference	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.3		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name	Mapping of ACM Notification s	ubscription options into 181 (B	seing forwarded) escaped		
	Privacy header				
Test Purpose			the Call diversion parameter is		
			ng forwarded) is sent. The Call		
	diversion information Notification				
	•	header of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in			
	table 6.2.5-40				
ISUP Parameter values	ACM:				
	Generic notification=call is diverting				
	Redirection number	1.00.000.000.000.000			
	Call diversion information	on			
	Notification subscription options=NSO_value				
SIP Parameter values	181:				
	History-Info:				
	<sip:unknown@unknown.ii< th=""><th colspan="4"><sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid></th></sip:unknown@unknown.ii<>	<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>			
	<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">;index=1.1</sip:any></pre>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	· -	IAM		
	181 Being forwarded	· <b>←</b>	ACM		
		Apply post test routine			

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

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

TP number	TP_305_054	Reference	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.4		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of CPG Redirection n	umber into 181 (Being forward	ed) History-Info header		
Test Purpose	Ensure that on receipt of a CPC				
	number and the Call diversion				
	occurred, a 181 (Being forward	led) is sent. The Redirection no	umber is mapped into the last		
	hi-targeted-to-uri in a History-Ir	nfo header in the sent 181 as in	ndicated in table 6.2.5-37		
ISUP Parameter values	CPG: Event=Progress				
	Generic notification=call is diverting				
	Call diversion information				
	Redirection number				
	Nature of address indicator=NOA_value				
	Address signal <b>Digits</b>				
SIP Parameter values	181:				
	History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<sip:last_hist_uri;cause=any>; index=1.1</sip:last_hist_uri;cause=any>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE → IAM				
	180 Ringing ← ← ACM				
	181 Being forwarded ←	<b>←</b>	CPG		
	Apply post test routine				

TP number	TP_305_055	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.4	
TSS reference	PSTN-SS/CDIV/		·	
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of CPG Redirecting re	eason into 181 (Being forward	ed) History-Info header cause	
	parameter			
Test Purpose	Ensure that on receipt of a CP			
	number and the Call diversion			
	occurred, a 181 (Being forward			
	reason is mapped into the cau		rgeted-to-uri in a History-Info	
	header in the sent 181 as indic	ated in table 6.2.5-38		
ISUP Parameter values	CPG: Event=Progress			
	Generic notification=cal	I is diverting		
	Redirection number			
	Call diversion information			
	Redirecting reason =REAS_value			
SIP Parameter values	181:			
	History-Info:			
	<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>			
	<sip:derived acm;cause="Cause_value" from="" in="" number="" redirection="">; index=1.1</sip:derived>			
	or			
	History-Info:			
		n.invalid?Reason=SIP;cause	=Cause_value>; index=1,	
	<sip:derived from="" p="" redir<=""></sip:derived>	ection number>; index=1.1		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<del>-</del>	IAM	
	180 Ringing ←		ACM	
	181 Being forwarded ←	<del>-</del>	CPG	
		Apply post test routine		

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

TP number	TP_305_057	Reference	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.4		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/5			
Test Purpose name	Mapping of CPG Notification	subscription options no 181 (Be	ing forwarded) is sent		
Test Purpose		PG the Event indicator is set to			
	number and the Call diversior	n parameter is present as an inc	dication a call diversion		
		information Notification subscri	ption options is set to		
	presentation not allowed no	181 (Being forwarded) is sent			
ISUP Parameter values	CPG: Event=Progress	CPG: Event=Progress			
	Generic notification=call is diverting				
	Redirection number				
	Call diversion informat	Call diversion information			
	Notification subscri	Notification subscription options=presentation not allowed			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	→	IAM		
	180 Ringing	<b>←</b>	ACM		
		<b>←</b>	CPG		
		Apply post test routine			

TP number	TP_305_058	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.4	
TSS reference	PSTN-SS/CDIV/	·		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/5		
Test Purpose name	Mapping of CPG Notification s Privacy header	subscription options into 181 (B	eing forwarded) escaped	
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Notification subscription options is mapped into the escaped Privacy header of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.2.5-40			
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=NSO_value			
SIP Parameter values	181: History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	=	IAM	
	180 Ringing	=	ACM	
	181 Being forwarded	<del>-</del>	CPG	
		Apply post test routine		

TP number	TP_305_059	Reference	7.4.6.3.3
			table 7.4.6.3.3.1,
			table 7.4.6.3.3.4
TSS reference	PSTN-SS/CDIV/		
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/		
Test Purpose name	Mapping of a CPG Alerting Re	,	ging) History-Info header
	Redirecting reason is mapped into the cause parameter		
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Redirection number Address signal digits are		
	mapped into the last hi-targete		
	in table 6.2.5-37 and the cause		rom a previous received
ISUP Parameter values	Redirecting reason as indicate <b>ACM:</b> Backward call indicator	u in table 6.2.5-36	
arameter values	Called party status=	no indication	
	Generic notification=cal		
	Call diversion information	9	
	Redirecting reason:		
	Redirection number		
	CPG: Event indicator=Alerting		
	Redirection number		
	Nature of address indicator=NOA_value		
	Address signal <b>Digits</b>		
SIP Parameter values	180:		
	History-Info:		
	<sip:unknown@unknow< th=""><th></th><th></th></sip:unknown@unknow<>		
	<sip:derived from="" redir<="" th=""><th>ection number;cause=<b>Cause</b>_</th><th>_value&gt;; index=1.1</th></sip:derived>	ection number;cause= <b>Cause</b> _	_value>; index=1.1
	or		
	History-Info:		
		n.invalid?Reason=SIP;cause	=Cause_value >; index=1,
0	<sip:derived from="" redir<="" th=""><th>ection number&gt;; index=1.1</th><th></th></sip:derived>	ection number>; index=1.1	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -		IAM
	181 Being forwarded		ACM
	180 Ringing ←	<del>=</del>	CPG
	Apply post test routine		

TP number	TP_305_060	Reference	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.5		
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	PICS 6.3.5/2 AND PICS 6.3.1/1 AND PICS 6.3.2/5			
Test Purpose name		Mapping of a CPG Alerting Redirection number into 180 (Ringing) History-Info header			
		Redirecting reason is mapped into the Reason header			
Test Purpose		Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Redirection number Address signal digits are			
	mapped into the second last hi				
	indicated in table 6.2.5-37 and		apped from a previous		
10112	received Redirecting reason as	s indicated in table 6.2.5-38			
ISUP Parameter values	<b>ACM:</b> Backward call indicator				
	Called party status=				
	Generic notification=cal	· ·			
	Call diversion information				
	Redirecting reason :	=REAS_value			
	Redirection number				
	CPG: Event indicator=Alerting				
	Redirection number				
	Nature of address indicator=NOA_value				
	Address signal <b>Digits</b>				
SIP Parameter values	180:				
	History-Info:				
	<sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>				
	<sip: derived="" from="" redi<="" th=""><th>rection number;cause=<b>Cause</b>_</th><th>_value&gt;; index=1.1</th></sip:>	rection number;cause= <b>Cause</b> _	_value>; index=1.1		
	or				
	History-Info:				
		n.invalid?Reason=SIP;cause=	= <b>Cause_value</b> >; index=1,		
	<sip: derived="" from="" number="" redirection="">; index=1.1</sip:>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE →	<del>=</del>	IAM		
	181 Being forwarded	<del>=</del>	ACM		
	180 Ringing ←	<b>←</b>	CPG		
		Apply post test routine			

<b>-</b>	_	T			
TP number	TP_305_061	Reference	7.4.6.3.3		
			table 7.4.6.3.3.1,		
			table 7.4.6.3.3.5		
TSS reference	PSTN-SS/CDIV/	·	·		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/5				
Test Purpose name	Mapping of CPG Alerting Redire	ection Number Restriction into 1	80 (Ringing) Privacy header		
Test Purpose	Ensure that on receipt of a CPG	the Event indicator is set to 'Al	erting' a Redirection Number		
	Restriction parameter is presen	t, a 180 (Ringing) is sent. The R	edirection Number Restriction		
	parameter value is mapped into	the Privacy header in the sent	180 as indicated in		
	table 6.2.5-41.	-			
ISUP Parameter	ACM: Backward call indicator				
values	Called party status=r	o indication			
	Generic notification=call	is diverting			
	Call diversion information	Call diversion information			
	Redirection number				
	CPG: Event indicator=Alerting				
	Redirection Number Restriction=PRES_restr				
SIP Parameter values	180:				
	History-Info: <sip:unknown< th=""><th>@unknown.invalid&gt;; index=1,</th><th></th></sip:unknown<>	@unknown.invalid>; index=1,			
	<pre><sip:any proper="" uri?privacy="PRIV_value;cause=any">; index=1.1</sip:any></pre>				
Comments		•			
Message flows	Mg	MGCF	ISUP		
	INVITE	<b>→</b> →	IAM		
	181 Being forwarded	<b>+ +</b>	ACM		
	180 Ringing	<b>+ +</b>	CPG		
	Apply post test routine				

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

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

TP number	TP_305_062	Reference	7.4.6.3.3	
	1		table 7.4.6.3.3.1,	
			table 7.4.6.3.3.6	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	I AND PICS 6.3.2/5		
Test Purpose name	Mapping of ANM Redirection n	umber into 200 OK History-Info	o header Redirecting reason	
	is mapped into the cause parar			
Test Purpose	Ensure that on receipt of an ANM a Redirection number is present, a 200 OK (INVITE) is			
	sent. The Redirection number Address signal digits are mapped into the last			
	hi-targeted-to-uri in a History-Ir			
	and the cause parameter valu	e is mapped from a previous r	eceived Redirecting reason	
	as indicated in table 6.2.5-38			
ISUP Parameter values	ACM: Backward call indicator			
	Called party status=			
	Generic notification=cal			
	Call diversion information			
	Redirecting reason =	EREAS_value		
	Redirection number			
	Redirection number			
	Nature of address indicator= <b>NOA_value</b>			
	Address signal <b>Digits</b>			
SIP Parameter values	200 OK:			
on raidiffeter values	History-Info:			
	<pre><sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid></pre>			
	<pre><sip:unknown@unknown.invalid>, index=1, <sip:last_hist_uri;cause=cause_value>; index=1.1</sip:last_hist_uri;cause=cause_value></sip:unknown@unknown.invalid></pre>			
	or	,		
	History-Info:			
		n.invalid?Reason=SIP;cause=	Cause_value>; index=1,	
	<sip:last_hist_uri></sip:last_hist_uri>	index=1.1		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE →	<b>→</b>	IAM	
	181 Being forwarded ←	<b>←</b>	ACM	
	180 Ringing ←	<b>←</b>	CPG	
	200 OK INVITE ←	<b>←</b>	ANM	
	ACK →			
	Apply post test routine			

TP number	TP_305_063	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.6	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.5/2 AND PICS 6.3.1/	PICS 6.3.5/2 AND PICS 6.3.1/1 AND PICS 6.3.2/5		
Test Purpose name	Mapping of ANM Redirection n		fo header Redirecting reason	
	is mapped into the Reason header			
Test Purpose	Ensure that on receipt of an ANM a Redirection number is present, a 200 OK (INVITE) is			
	sent. The Redirection number Address signal digits are mapped into the last			
	hi-targeted-to-uri in a History-Ir			
	the <b>Reason header</b> value is m	apped from a previous receive	ed Redirecting reason as	
	indicated in table 6.2.5-39			
ISUP Parameter values	ACM: Backward call indicator			
	Called party status=			
	Generic notification=cal			
	Call diversion information			
	Redirecting reason	=REA5_value		
	Redirection number			
	ANM: Redirection number			
	Nature of address indicator= <b>NOA_value</b>			
	Address signal <b>Digits</b>			
SIP Parameter values	200 OK:			
on randingtor values	History-Info:			
	<pre><sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid></pre>			
	<pre><sip: any="" proper="" uri;cause="Cause_value">; index=1.1</sip:></pre>			
	or	<b>,</b>		
	History-Info:			
		n.invalid?Reason=SIP;cause	=Cause_value>; index=1,	
	<sip: any="" proper="" uri="">;</sip:>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE -	<b>→</b>	IAM	
	181 Being forwarded ←	<b>←</b>	ACM	
	180 Ringing ←	<b>+</b>	CPG	
	200 OK INVITE ←	<b>+</b>	ANM	
	ACK →			
		Apply post test routine		

TD mumb an	TD 005 004	Deference	7.4000	
TP number	TP_305_064	Reference	7.4.6.3.3	
			table 7.4.6.3.3.1,	
			table 7.4.6.3.3.6	
TSS reference	PSTN-SS/CDIV/			
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/5		
Test Purpose name	Mapping of ANM Redi	rection Number Restriction int	o 200 OK INVITE Privacy header	
Test Purpose	Ensure that on receipt	of an ANM a Redirection Nun	nber Restriction parameter is present	
	as an indication a call	diversion occurred, a 200 OK	INVITE is sent. The Redirection	
	Number Restriction pa	rameter value is mapped into	the Privacy header in the sent 180 as	
	indicated in table 6.2.5		•	
ISUP Parameter values	ACM: Generic notifica	ation=call is diverting		
	Call diversion in	nformation		
	Redirection nur	mber		
	ANM: Event indicator	=Alertina		
		Redirection Number Restriction=PRES_restr		
SIP Parameter values	200:			
		History-Info: <sip:unknown@unknown.invalid>; index=1,</sip:unknown@unknown.invalid>		
		<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1</sip:any></pre>		
Comments		71 1 7	, <u> </u>	
Message flows	Mg	MGCF	ISUP	
J	INVITE	<b>→</b>	→ IAM	
	181 Being forwarded	<b>←</b>	← ACM	
	180 Ringing	<b>←</b>	← CPG	
	200 OK INVITE	<del>-</del>	← ANM	
	ACK	<b>→</b>	▼ □ VI VIVI	
	ACK	<del>-</del>	outino	
i		Apply post test ro	uun <del>c</del>	

TP number	TP_305_065	Reference	7.4.6.1	
TSS reference	PSTN-SS/CDIV/	PSTN-SS/CDIV/		
Selection criteria	NOT PICS 6.3.2/5			
Test Purpose name	No mapping of Redirecting	No mapping of Redirecting number, Original called number and Redirection Information		
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter, a Original called number and a Redirection Information parameter Redirecting reason indicator is set to <b>REAS_value</b> as indicated in table 6.2.5-42, an INVITE request is sent and no History-Info header is present. The call setup is not disrupted			
ISUP Parameter values	IAM: Redirecting number Redirection Information Redirecting reason =REAS_value Original called number			
SIP Parameter values				
Comments				
Message flows	ISUP IAM =	MGCF → Apply post test routi	Mg INVITE ine	

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

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

TP number	TP_305_066	Reference	7.4.6.3.3					
			table 7.4.6.3.3.1,					
			table 7.4.6.3.3.3					
TSS reference	PSTN-SS/CDIV/							
Selection criteria	NOT PICS 6.3.2/5							
Test Purpose name	No mapping of ACM Redirection	on number and Call diversion in	nformation					
Test Purpose	Ensure that on receipt of an At the Redirecting reason is set to							
	an indication a call diversion of							
	present. The call setup is not of		and no mistory-into neader is					
ISUP Parameter values	ACM: Generic notification=ca	l is diverting						
	Redirection number							
	Call diversion information							
	Redirecting reason	Redirecting reason =REAS_value						
SIP Parameter values								
Comments								
Message flows	Mg	MGCF	ISUP					
	INVITE -	<b>→</b>	IAM					
	180 Ringing ←	<b>←</b>	ACM					
		Apply post test routine						

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

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

# 6.2.6 Explicit Call Transfer (ECT)

TP number	TP_306_001	Reference		7.4.8			
TSS reference	PSTN-SS/ECT/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/6						
Test Purpose name	A session is retrieved w	hen a notification 'call trar	nsfer, active'	in a FAC was received and			
	the session is on hold						
Test Purpose			•	AC message and the Generic			
			a reINVITE	is sent the a attribute in the			
	SDP is set to 'sendrecv'						
ISUP Parameter values	FAC: Generic notification	*** ***********************************					
SIP Parameter values	INVITE 2 SDP a=sendo						
	INVITE 3 SDP a=sendre	ecv					
Comments							
Message flows	Mg	MGCF	_	ISUP			
	INVITE 1	<b>→</b>	<b>→</b>	IAM			
	100 Trying	<b>←</b>	_				
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM			
	ACK	<b>→</b>	_	7.1.111			
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)			
	200 OK (INVITE)	<b>→</b>		,			
	ACK	<b>←</b>					
	INVITE 3	<b>←</b>	<b>←</b>	FAC(call transfer, active)			
	200 OK (INVITE)	<b>→</b>					
	ACK	<del>(</del>					
		Apply post test	t routine				

TP number	TP_306_002	Reference		7.4.8
TSS reference	PSTN-SS/ECT/	<b></b>		-
Selection criteria	PICS 6.3.1/1 AND PICS 6	.3.2/6		
Test Purpose name	A session is retrieved whe	n a notification 'call transfer,	alertir	ng' in a FAC was received and
-	the session is on hold	,		
Test Purpose	I-MGCF: A session is on h	old. Ensure that on receipt o	f an F	AC message and the Generic
	notification indicator is set	to 'call transfer, alerting', a re	IVVI	ΓE is sent the a attribute in the
	SDP is set to 'sendrecv'			
ISUP Parameter values	FAC: Generic notification			
SIP Parameter values	INVITE 2 SDP a=sendonly			
	INVITE 3 SDP a=sendrecv	/		
Comments				
Message flows	Mg	MGCF		ISUP
	INVITE 1	<b>→</b>	<b>→</b>	IAM
	100 Trying	<b>←</b>		
	180 Ringing	<b>←</b>	<b>←</b>	ACM
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM
	ACK	÷	•	AINIVI
	AOR	,		
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)
	200 OK (INVITE)	<b>→</b>		- ( /
	ACK	<b>←</b>		
	N 11 11 TE 0		_	540/ Hz ( ) ; ; )
	INVITE 3	<del>(</del>	<b>←</b>	FAC(call transfer, alerting)
	200 OK (INVITE)	<del>}</del>		
	ACK	Annly need test year	!	
		Apply post test rout	ıne	

TP number	TP_306_003		Reference	7.4.8		
TSS reference	PSTN-SS/ECT/			·		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/6					
Test Purpose name	A session is retrieved v	vhen a no	tification 'call transfer,	active' in a CPG was received and		
	the session is on hold					
Test Purpose	O-MGCF: A session is	on hold.	Ensure that on receipt of	of an CPG message and the		
	Generic notification ind	icator is s	set to 'call transfer, activ	ve', a reINVITE is sent the a		
	attribute in the SDP is s	set to 'ser	ndrecv'			
ISUP Parameter values	CPG: Generic notificat	tion=tran	sfer active			
SIP Parameter values	INVITE 2 SDP a=sendo					
	INVITE 3 SDP a=sendr	ecv				
Comments						
Message flows	Mg		MGCF	ISUP		
	INVITE	<b>←</b>	<b>←</b>	IAM		
	100 Trying	<b>→</b>				
	180 Ringing	<b>→</b>	<b>→</b>	ACM		
	200 OK (INVITE)	<b>→</b>	<b>→</b>	ANM		
	ACK	<b>←</b>				
	INVITE 2	<b>←</b>	<b>←</b>	CPG(hold)		
	200 OK (INVITE)	<b>→</b>				
	ACK	<b>←</b>				
	INVITE 3	<del>(</del>	<b>←</b>	CPG(call transfer, active)		
	200 OK (INVITE)	<b>→</b>				
	ACK	<b>←</b>		_		
			Apply post test rout	ine		

TP number	TP_306_004	F	Reference		7.4.8			
TSS reference	PSTN-SS/ECT/							
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/6							
Test Purpose name		A session is retrieved when a notification 'call transfer, alerting' in a CPG was received and						
Test Purpose	O-MGCF: 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 notific	cation=trans	fer alerting					
SIP Parameter values	INVITE 2 SDP a=ser INVITE 3 SDP a=ser							
Comments								
Message flows	Mg		MGCF		ISUP			
	INVITE 100 Trying	<b>←</b> →	•	<b>-</b> 1/	AM			
	180 Ringing	<b>→</b>	-	<b>→</b> A	CM			
	200 OK (INVITE) ACK	<b>→</b>	-	<b>→</b> A	NM			
	INVITE 2 200 OK (INVITE) ACK	<b>←</b> <b>→</b> <b>←</b>	•	<b>E</b> C	CPG(hold)			
	INVITE 3 200 OK (INVITE) ACK	<b>←</b> <b>→</b>			CPG(call transfer, alerting)			
			Apply post test ro	utine				

TP number	TP_306_005	Reference	7.4.8				
TSS reference	PSTN-SS/ECT/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/6	6					
Test Purpose name	FAC with generic notification 'c	all transfer, active' received, no	o mapping				
Test Purpose	I-MGCF: Ensure that on receip						
	coded as 'call transfer, active' a	and the session is not on hold,	no mapping occurs on the				
	SIP side						
ISUP Parameter values	FAC: Generic notification=tran	nsfer active					
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	IAM				
	100 Trying	<b>←</b>					
	180 Ringing	<b>← ←</b>	ACM				
	200 OK (INVITE)	<b>← ←</b>	ANM				
	ACK	<b>→</b>					
	FAC(call transfer, active)						
		Apply post test routine	, , , , , , , , , , , , , , , , , , , ,				

TP number	TP 306 006	Reference	7.4.8			
TSS reference	PSTN-SS/ECT/		1			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	6				
Test Purpose name	FAC with generic notification 'c	call transfer, alerting' received	no mapping			
Test Purpose	I-MGCF: Ensure that on receipt of a FAC message and the Generic notification indicator is coded as 'call transfer, alerting' and the session is not on hold, no mapping occurs on the SIP side					
ISUP Parameter values	FAC: Generic notification=tra	nsfer alerting				
SIP Parameter values		-				
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE 100 Trying	<b>→ →</b>	IAM			
	180 Ringing	<b>+ +</b>	ACM			
	200 OK (INVITE) ACK	<b>← ← →</b>	ANM			
		← Apply post test routine	FAC(call transfer, alerting)			

	T== 000 00=			T=			
TP number	TP_306_007	Referen	ce	7.4.8			
TSS reference	PSTN-SS/ECT/						
Selection criteria	PICS 6.3.1/1 AND PI	CS 6.3.2/6					
Test Purpose name	CPG with generic not	tification 'call transf	er, active' received	I, no mapping			
Test Purpose	I-MGCF: Ensure that on receipt of a CPG message and the Generic notification indicator is coded as 'call transfer, active' and the session is not on hold, no mapping occurs on the SIP side						
ISUP Parameter values	CPG: Generic notific	cation=transfer activ	ve				
SIP Parameter values							
Comments							
Message flows	Mg	MG	CF	ISUP			
	INVITE 100 Trying	<b>→</b> ←	<b>→</b> 1/	MA			
	180 Ringing	<b>←</b>	<b>←</b> A	CN			
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b> A	NM			
	← CPG(call transfer, active)  Apply post test routine						
		Арріу	post test routine				

TP number	TP_306_008	Reference	7.4.8			
TSS reference	PSTN-SS/ECT/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.	2/6				
Test Purpose name	CPG with generic notification	'call transfer, alerting' receiv	ed, no mapping			
Test Purpose			ne Generic notification indicator is			
	coded as 'call transfer, alerti	ng' and the session is not on l	hold, no mapping occurs on the			
	SIP side					
ISUP Parameter values	<b>CPG:</b> Generic notification=t	ransfer alerting				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE →	<b>→</b> I	AM			
	100 Trying ←					
	180 Ringing ←	<b>←</b> /	ACM			
	000 01/ (INI) (ITE)	<b>,</b>				
	200 OK (INVITE)	€ /	ANM			
	ACK →					
		<b>←</b> (	CPG(call transfer, alerting)			
		Apply post test routine	,			

### 6.2.7 Call Waiting

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

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

#### 6.2.8 Call Hold

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

TP number	TP_308_002	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.2/9				
Test Purpose name	Hold and Retrieve request	ed from SIP in reINVITE request				
Test Purpose		n INVITE request in the confirme				
	stream in the SDP is set to	'sendonly', a CPG message is s	ent the Generic notification			
	indicator is set to 'remote h					
		n INVITE request in the confirme				
		o 'sendrecv', a CPG message is s	ent the Generic notification			
	indicator is set to 'remote r					
ISUP Parameter values	<b>CPG:</b> Generic notification					
	Remote hold					
	Remote retrieva	ıl				
SIP Parameter values	INVITE/UPDATE:SDP 1					
		ndonly				
	SDP 2					
	a=sei	ndrecv				
Comments						
Message flows	Mg	MGCF	ISUP			
		Establish a confirmed dialog				
	INVITE(sendonly)	<b>→</b> →	CPG(hold)			
	200 OK (INVITE)	<b>←</b>				
	ACK	<b>→</b>				
	INVITE(sendrecv)	<b>→ →</b>	CPG(retrieve)			
	200 OK (INVITE)	<b>←</b>				
	ACK	<b>→</b>				
		Apply post test routine				

TP number	TD 200 002	Reference	7.4.10				
	TP_308_003	Reference	7.4.10				
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/						
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						
		ndonly', a CPG message is ser	nt 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 retrie	eval'					
ISUP Parameter values	CPG: Generic notification						
	Remote hold						
	Remote retrieval						
SIP Parameter values	INVITE/UPDATE:SDP 1						
	a=sendo	nly					
	SDP 2	•					
	a=sendre	ecv					
Comments							
Message flows	Mg	MGCF	ISUP				
	_	stablish a confirmed dialogu	e				
	UPDATE(sendonly)		CPG(hold)				
	200 OK (UPDATE)		G. G(G.a)				
	ACK						
	NON 7						
	UPDATE(sendrecv) → CPG(retrieve)						
			CPG(retrieve)				
	200 OK (UPDATE)						
	ACK -						
		Apply post test routine					

TP number	TP_308_004	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/9	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	as set on hold before, an INVI	TE or UPDATE request is
	sent and the media stream is se	et 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)	<b>→</b>	→ CPG(hold)
	200 OK (INVITE)	<b>←</b>	
	ACK	<b>→</b>	
	CASE A		
	INVITE(SDP 2 = inactive)	<b>←</b>	← CPG(hold)
	200 OK (INVITE)	<b>→</b>	
	ACK	<b>←</b>	
	CASE B		
	UPDATE(SDP 2 = inactive)	<b>←</b>	
	200 OK (UPDATE)	<b>→</b>	
		Apply post test routine	

TP number	TP 308 005	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/	Reference	7.4.10			
Selection criteria						
	PICS 6.3.1/1 AND PICS 6.3.2/	*				
Test Purpose name	Hold requested from both ends					
Test Purpose		nold. Ensure that on receipt of a				
	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=inactiv	e				
Comments						
Message flows	Mg	MGCF	ISUP			
	E	stablish a confirmed dialogu	e			
	CASE A					
	INVITE(SDP 1 = sendonly)	<b>←</b>	← CPG(hold)			
	200 OK (INVITE)	<b>→</b>	,			
	ACK	<b>←</b>				
	1.0.1					
	CASE B					
	UPDATE(SDP 1 = sendonly)	<b>←</b>				
	200 OK (UPDATE)	<b>→</b>				
	200 OK (OPDATE)	7				
	INIVITE (CDD 2 in a chius)	_5	→ CPG(hold)			
	INVITE(SDP 2 = inactive)	<b>→</b>	→ CPG(hold)			
	200 OK (INVITE)	<del>&lt;</del>				
	ACK	<b>→</b>				
		Apply post test routine				

TP number	TP_308_006	Reference	7.4.10				
TSS reference	PSTN-SS/HOLD/	•					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/9					
Test Purpose name	First hold from SIP. Session i	nactive, Retrieve requested fron	n 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						
	Remote hold	Remote hold					
	CPG 2: Generic notification	า					
	Remote retrieva	al					
SIP Parameter values	INVITE/UPDATE:SDP 1						
	a=sendo	only					
	SDP 2						
	a=inacti	ve					
	SDP 3						
	a=recvo	nly					
Comments							
Message flows	Mg	MGCF	ISUP				
		Establish a confirmed dialogu					
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG 1 (hold)				
	200 OK (INVITE)	<b>←</b>					
	ACK	<b>→</b>					
	CASE A						
	INVITE(SDP 2 = inactive)	<b>←</b>	← CPG 1 (hold)				
	200 OK (INVITE)	<b>→</b>					
	ACK	<b>←</b>					
	CASE B						
	UPDATE(SDP 2 = inactive)	<b>←</b>					
	200 OK (UPDATE)	<b>→</b>					
	INVITE(SDP 3 = recvonly)	<b>→</b>	→ CPG 2 (retrieve)				
	200 OK (INVITE)	<b>←</b>					
	ACK	<b>→</b>					
		Apply post test routine					

TP number	TP_308_007	Reference	7.4.10		
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/9			
Test Purpose name	First hold from SIP. Session in		from ISUP		
Test Purpose	The session is set on hold at first from SIP as well as second from ISUP. Ensure that on				
-	receipt of a CPG message and	d the Generic notification in	dicator is set to 'remote retrieval',		
	an INVITE or UPDATE reques	st is sent and the media stre	eam in the SDP I set to 'recvonly'		
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendo	nly			
	SDP 2				
	a=inactiv	e e			
	SDP 3				
	a=recvor	าly			
Comments		NOOF.	IOUD		
Message flows	Mg	MGCF	ISUP		
		stablish a confirmed dial	_		
	INVITE(SDP 1 = sendonly)	<b>→</b>	→ CPG(hold)		
	200 OK (INVITE)	<del>(</del>			
	ACK	<b>→</b>			
	CASE A				
	CASE A	7	( ODO ( - 1-1)		
	INVITE(SDP 2 = inactive)	<del>(</del>	← CPG(hold)		
	200 OK (INVITE) ACK	<b>→</b>			
	ACK	~			
	CASE B				
		_			
	UPDATE(SDP 2 = inactive)	<b>←</b> →			
	200 OK (UPDATE)	7			
	CASE A				
		<b>←</b>	← CPG(retrieve)		
	INVITE(SDP 3 = recvonly)	<b>→</b>	← CPG(retrieve)		
	200 OK (INVITE)	<b>7</b> ←			
	ACK	~			
	CASE B				
	UPDATE(SDP 3 = recvonly)	_			
	`	<b>←</b> →			
	200 OK (UPDATE)	-			
		Apply post test routine	<del>-</del>		

TP number	TP_308_008	Reference	7.4.	10
TSS reference	PSTN-SS/HOLD/	recerence	17.7.	10
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/O		
		-	-4 fuere CI	D
Test Purpose name	First hold from ISUP. Session			
Test Purpose	The session is set on hold at f			
	receipt of an INVITE request a			
	message is sent and the Gene	eric notification indicator	is set to 'ren	note retrieval
ISUP Parameter values	CPG: Generic notification			
	Remote hold			
SIP Parameter values	INVITE/UPDATE:SDP 1			
	a=sendo	only		
	SDP 2			
	a=inactiv	⁄e		
	SDP 3			
	a=recvor	nly		
Comments				
Message flows	Mg	MGCF		ISUP
	E	establish a confirmed o	lialogue	
	CASE A			
	INVITE(SDP 1 = sendonly)	<b>←</b>	<b>←</b>	CPG(hold)
	200 OK (INVITE)	<b>→</b>		
	ACK	<b>←</b>		
	CASE B			
	UPDATE(SDP 1 = sendonly)	<b>←</b>		
	200 OK (UPDATE)	<b>→</b>		
	200 011 (01 27112)	-		
	INVITE(SDP 2 = inactive)	<b>→</b>	<b>→</b>	CPG(hold)
	200 OK (INVITE)	É	-	Of O(floid)
	ACK	<b>→</b>		
	ACK	-		
	INIVITE/CDD 2 required:	<b>→</b>	<b>→</b>	CDC(retrieve)
	INVITE(SDP 3 = recvonly)		7	CPG(retrieve)
	200 OK (INVITE)	<del>(</del>		
	ACK	<b>→</b>		
		Apply post test rou	tine	

TP number	TP_308_009	Reference	7.4.10	0	
TSS reference	PSTN-SS/HOLD/		<u> </u>	-	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/9			
Test Purpose name	First hold from ISUP. Session		sted from ISU	P	
Test Purpose	The session is set on hold at fi				
	receipt of a CPG message and the Generic notification indicator is set to 'remote retrieval',				
	an INVITE or UPDATE reques	t is sent and the media s	stream 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			
	SDP 3	ali .			
Comments	a=recvor	niy			
Message flows	Mg	MGCF		ISUP	
Wessage nows			ialogue	ISUP	
	Establish a confirmed dialogue CASE A				
	INVITE(SDP 1 = sendonly)	<b>←</b>	<b>←</b>	CPG(hold)	
	200 OK (INVITE)	<b>→</b>	•	Ci G(ilola)	
	ACK	<b>~</b>			
	ACK	`			
	CASE B				
	UPDATE(SDP 1 = sendonly)	<b>←</b>			
	200 OK (UPDATE)	÷			
	200 011 (01 27112)	•			
	INVITE(SDP 2 = inactive)	<del>)</del>	<b>→</b>	CPG(hold)	
	200 OK (INVITE)	<del>-</del>	_	C. C(e.a)	
	ACK	<del>`</del>			
	CASE A				
	INVITE(SDP 3 = recvonly)	<b>←</b>	<b>←</b>	CPG(retrieve)	
	200 OK (INVITE)	<b>→</b>		- ( ,	
	ACK	<b>←</b>			
	CASE B				
	UPDATE(SDP 3 = recvonly)	<b>←</b>			
	200 OK (UPDATE)	<b>→</b>			
		Apply post test rout	ine		

TP number	TP 308 010		Reference		7.4.10.2		
TSS reference	PSTN-SS/HOLD/				111111111111111111111111111111111111111		
Selection criteria	PICS 6.3.1/1 AND I	PICS 6.3.	2/9 AND PICS 6.3.6	5/1			
Test Purpose name					UPDATE is sent in early dialogue		
Test Purpose	Ensure that on rece 'remote hold' before	CPG hold received before an dialogue was established UPDATE is sent in early dialogue  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 UPDATE request indicating the  hold indication is sent after the early dialogue by receiving a 180 Ringing is established.					
ISUP Parameter values	CPG: Generic noti	fication	is set to seridorily	muicati	ing the noid state		
SIP Parameter values	UPDATE: SDP a=se	ndonly					
Comments	A CPG is received	after an A	CM was sent.				
Message flows	Mg		MGCF		ISUP		
	IAM	<b>→</b>	Start Ti/w2	<b>→</b>	INVITE 100 Trying		
	ACM	<b>←</b>	Timeout Ti/w2				
	CPG(hold)	<b>→</b>		<b>←</b> <b>→</b>	180 Ringing UPDATE(sendonly) 200 OK (UPDATE)		
			Apply post tes	st routi	ine		

TP number	TP_308_011	Reference	7.4.10.2			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	3.2/9 AND PICS 6.3.6/1				
Test Purpose name	CPG hold received before dialogue	an dialogue was established	UPDATE is sent in confirmed			
Test Purpose	Ensure that on receipt of a CPG message and the Generic notification indicator is set to 'remote hold' before an early dialogue is established, the INVITE or UPDATE request indicating the hold indication is sent after the confirmed dialogue by receiving a 200 OK (INVITE) is established. The media stream in the SDP is set to sendonly indicating the hold state					
ISUP Parameter values	<b>CPG:</b> Generic notification Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP a=ser	ndonly				
Comments		,				
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE 100 Trying			
	CPG(hold) ANM ←		200 OK (INVITE)			
	CASE A	→ ← →	INVITE(sendonly) 200 OK (INVITE) ACK			
	CASE B	→ ← Apply post test routi	UPDATE(sendonly) 200 OK (UPDATE)			

TP number	TP_308_012	Refere	nce	7.4.10.2			
TSS reference	PSTN-SS/HOLD/	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/9 AND	PICS 6.3.6/1				
Test Purpose name	CPG hold received	after several early	dialogues was es	tablished UPDATE is sent on the			
	last established ear	ly dialogue					
Test Purpose				ceipt of a CPG message and the			
	Generic notification	indicator is set to '	remote hold', an l	JPDATE request is sent on the			
	latest established ea	arly dialogue					
ISUP Parameter values	CPG: Generic notif	fication					
	Remote h	nold					
SIP Parameter values	180 1: To: <appropri< th=""><th></th><th></th><th></th></appropri<>						
	180 1: To: <appropri< th=""><th>riate URI&gt;; tag=2</th><th></th><th></th></appropri<>	riate URI>; tag=2					
	UPDATE: To: <app< th=""><th></th><th></th><th></th></app<>						
Comments			rom tag are equal	I. The different dialogues can be			
		distinguished by the To tag					
Message flows	Mg	==	GCF	ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE			
	ACM	<b>←</b>	<b>←</b>	180 Ringing 1			
	← 180 Ringing 2						
	CPG(hold)	<b>→</b>	<b>→</b>	UPDATE 2 (sendonly)			
			<b>←</b>	200 OK (UPDATE)			
		Appl	y post test routi	ne			

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

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

TP number	TP_308_015	R	eference		7.4.10.2
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/9 /	AND PICS 6.3.6/	1	
Test Purpose name	An INVITE or UPE	DATE (hold con	dition) is sent aft	er 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' indicatin	g the	held state
ISUP Parameter values	CPG: Generic no				
	Remote				
SIP Parameter values	INVITE/UPDATE :				
		a=sendo	only		
Comments					
Message flows	Mg	_	MGCF	_	ISUP
	IAM	<b>→</b>		<b>→</b>	INVITE
	ACM	<b>←</b>		+	180 Ringing
	CPG(hold)	<b>→</b>		<b>→</b>	UPDATE(sendonly)
				<b>←</b>	200 OK (UPDATE)
	ANM	<b>←</b>		<b>←</b>	200 OK (INVITE)
				<b>→</b>	ACK ,
	CASE A			<b>→</b>	INVITE 2 (sendonly)
				<b>←</b>	200 OK (INVITE)
				<b>→</b>	ACK
	CASE B			<b>→</b>	UPDATE 2 (sendonly)
				<b>←</b>	200 OK (UPDATE)
			Apply post test	routi	,

TD mumban	TD 200 040	Deference	7.4.40
TP number	TP_308_016	Reference	7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	9 AND PICS 6.3.6/1	
Test Purpose name	'sendonly' and 'sendrecv' recei	ived from the terminating SIP	user in the early dialogue
Test Purpose	Ensure that on receipt of an U	PDATE request in the early d	lialogue and the media stream
	is set to 'sendonly' a CPG mes	sage is sent and the Generic	notification indicator is set to
	'remote hold'.	9	
	Ensure that on receipt of an U	PDATE request in the early d	lialogue and the media stream
	is already set on hold the med	ia stream is set to 'sendrecv'	in the received UPDATE, a
	CPG message is sent and the	Generic notification indicator	is set to 'remote retrieval'
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	IAM →	<b>→</b> IN	VITE
		<b>←</b> 10	00 Trying
	ACM ←	<b>←</b> 18	0 Ringing
			3 3
	CPG(hold) ←	← UI	PDATE(sendonly)
	G. G(G.a)		00 OK (UPDATE)
		2	ock (or bitte)
	CPG(retrieve)	<b>←</b> UI	PDATE(sendrecv)
	0. 3(.31.1070)		00 OK (UPDATE)
		Apply post test routine	ON (OI DATE)
		Apply post test routine	

TP number	TP_308_017	Reference	7.4.2				
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.2/9 AND PICS 6.3.6/1					
Test Purpose name	'sendonly' and 'sendrecv' re	eceived from the originating SIF	P user in the early dialogue				
Test Purpose	is set to 'sendonly', a CPG 'remote hold'. Ensure that on receipt of a is set to 'sendonly' the sess	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream s 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 s set to 'sendonly' the session is already set on hold, a CPG message is sent and the Generic notification indicator is set to 'remote retrieval'					
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	180 Ringing	<b>←</b>	← ACM				
	UPDATE(sendonly) 200 OK (UPDATE)	<b>→</b> ←	CPG(hold)				
	UPDATE(sendrecv) 200 OK (UPDATE)	<b>→</b> ←	→ CPG(retrieve)				
		Apply post test routine					

TP number	TP_308_018	Reference	7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/9 AND PICS 6.3.6/1				
Test Purpose name	'hold' and 'retrieve' received fro	om the originating PSTN us	ser in the early dialogue			
Test Purpose	Ensure that on receipt of a CPG message and the Generic notification indicator is set to 'remote hold' in the early dialogue, an UPDATE request is sent and 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 →	<b>←</b>	INVITE 100 Trying			
	ACM <b>←</b>	<b>←</b>	180 Ringing			
	CPG(hold) →		UPDATE(sendonly) 200 OK (UPDATE)			
	CPG(retrieve) →	<b>←</b>	UPDATE(sendrecv) 200 OK (UPDATE)			
		Apply post test routing	e			

#### 6.2.9 Call Completion on busy subscriber

TP number	TP_309_001	Reference	7.4.11
TSS reference	PSTN-SS/CCBS/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/2	0	
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	esponse 486 Busy Here is se	ent no indication of CCBS
	facility is present		
ISUP Parameter values	REL: Cause indicator CCBS p	ossible indicator=CCBS pos	sible
SIP Parameter values			
Comments	The CCBS possible indicator is	contained in the diagnostic fi	eld of the Cause indicator
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	486 Busy Here ←	<b>←</b>	REL(17)
	ACK →	<b>→</b>	RLC

# 6.2.10 Completion of Calls on No Reply (CCNR)

TP number	TP_310_001	Reference	7.4.12
TSS reference	PSTN-SS/CCNR/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	11	
Test Purpose name	CCNR possible indication rece	ived in an ACM, discarded	
Test Purpose	Ensure that on receipt of an AC	CM and a CCNR possible indicate	ator is present the value set
	to 'CCNR possible', a 180 Ring	ing is sent without indication of	f CCNR facility
ISUP Parameter values	ACM: BCI called party status i	ndicator=subscriber free, CCN	R Possible Indicator=CCNR
	possible		
SIP Parameter values			
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
	180 Ringing ←	<del>-</del>	ACM
		Apply post test routine	

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

# 6.2.11 Terminal Portability (TP)

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

	<del></del>	-			<u> </u>
TP number	TP_311_002		Reference		7.4.13
TSS reference	PSTN-SS/TP/				
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/1	2		
Test Purpose name	RES user initiated is map	ped int	to an reINVITE SDP	sendre	CV
Test Purpose					to 'ISDN subscriber initiated'
	was received. Ensure that				
				ITE is s	sent and the media stream
	indicated in the SDP is se	et to 'se	endrecv'		
ISUP Parameter values	RES: Suspend/Resume	<b>;</b>			
	ISDN subscrib	er initia	ated		
SIP Parameter values	INVITE: SDP				
	a=sendrec	V			
Comments					
Message flows	Mg		MGCF		ISUP
	IAM	<b>→</b>	=	<b>→</b> IN'	VITE
			•	<b>-</b> 10	0 Trying
	ACM	<b>←</b>	•	<b>-</b> 18	0 Ringing
					3 3
	ANM	<b>←</b>		<b>-</b> 20	0 OK (INVITE)
			-	→ AC	,
	INVITE(sendonly)	<b>←</b>		E SU	JS(user)
	` ,	<b>→</b>		- 00	(uso.)
	,	Ĺ			
	AOR	•			
	INVITE(sendrecv)	<del>(</del>		F RE	ES(user)
		<b>→</b>	`	- I\L	-O(u301)
	` ,	<del>-</del>			
	ACK	~-	Apply post tost ro	utino	
			Apply post test ro	utille	

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

TP number	TP_312_001	Reference	7.4.14				
TSS reference	PSTN-SS/CONF/	•					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/13					
Test Purpose name	I-MGCF: Session not on hold,	notification 'conference establi	shed'				
Test Purpose		A session at the I-MGCF is in the confirmed state and not set on hold. Ensure that on receipt of a CPG message the Generic notification indicator is set to 'Conference established' no reINVITE is sent					
ISUP Parameter values	CPG: Generic notification						
	Conference esta	ablished					
SIP Parameter values							
Comments	This state is applicable for CO	NF and 3PTY					
Message flows	Mg	MGCF	ISUP				
	INVITE -	<b>→</b>	IAM				
	100 Trying	•					
	180 Ringing	·	ACM				
	200 OK (INVITE)	·	ANM				
		← Apply post test routine	CPG				

TP number	TP 312 002	Reference	<u> </u>	7.4.14
		Keierenc	<u> </u>	1.4.14
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/13		
Test Purpose name	O-MGCF: Session	not on hold, notification	n 'conference	established'
Test Purpose	A session at the O	-MGCF is in the confirn	ned state and	not set on hold. Ensure that on
	receipt of a CPG m	nessage the Generic no	tification indi	cator is set to 'Conference
	established' no rell	NVITE is sent		
ISUP Parameter values	CPG: Generic not	ification=		
	Conf	ference established		
SIP Parameter values				
Comments	This state is applic	able for CONF and 3P	ΓΥ	
Message flows	Mg	MGC	F	ISUP
	IAM	<b>→</b>	<b>→</b>	INVITE
			+	100 Trying
	ACM	<b>←</b>	<b>←</b>	180 Ringing
	7.0	-	-	100 141191119
	ANM	<b>←</b>	<b>←</b>	200 OK (INVITE)
	AINIVI	•	÷	ACK
				AOR
	CPG	<b>→</b>		
	UF G	<del>-</del>		·
	Apply post test routine			

TP number	TP_312_003	Reference	7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/13				
Test Purpose name	I-MGCF: Session on hold, not	ification 'conference establishe	ed'			
Test Purpose	A session at the I-MGCF is in	the confirmed state and set or	n hold. Ensure	that on receipt of		
		notification indicator is set to 'C		stablished' a		
		a' attribute in the SDP is set to	'sendrecv'			
ISUP Parameter values	CPG 1: Generic notification	1				
	Remote hold					
	CPG 2: Generic notification					
	Conference est	ablished				
SIP Parameter values	INVITE 1: SDP					
	a=sendonly					
	INVITE 2: SDP					
	a=sendrecv	T) /				
Comments	This state is applicable for 3P			10115		
Message flows	Mg	MGCF		ISUP		
	INVITE	<del>}</del>	→ IAM			
	100 Trying	<del>(</del>	<b>4</b> AONA			
	180 Ringing	<b>←</b>	<b>←</b> ACM			
	200 OK (INVITE)	<b>←</b>	<b>←</b> ANM			
	ACK	<b>→</b>	AINIVI			
	ACK	,				
	INVITE 1 (sendonly)	<b>←</b>	← CPG 1			
	200 OK INVITE (recvonly)	<b>→</b>	CIG I			
	ACK	<del>-</del>				
	ACK	•				
	INVITE 2 (sendrecv)	<b>←</b>	← CPG 2			
	200 OK INVITE (sendrecv)	<b>→</b>	• 0132			
	ACK	<b>←</b>				
	AON	Apply post test routine				
		Apply post test routille				

TP number	TP_312_004	Reference		7.4.14			
TSS reference	PSTN-SS/CONF/	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/13					
Test Purpose name	O-MGCF: Session on h	old, notification 'conference	e esta	ablished'			
Test Purpose	A session at the O-MG0	CF is in the confirmed state	and	set on hold. Ensure that on receipt			
				set to 'Conference established' a			
		nt the 'a' attribute in the SD	P is s	et to 'sendrecv'			
ISUP Parameter values	CPG 1: Generic notif						
	Remote h						
	CPG 2: Generic notif						
		ce established					
SIP Parameter values	INVITE 1: SDP						
	a=sendor	nly					
	INVITE 2: SDP						
0	a=sendre	•					
Comments	This state is applicable			IOUD			
Message flows	Mg	MGCF		ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE			
	0.004		<b>+</b>	100 Trying			
	ACM	<b>←</b>	~	180 Ringing			
	0.010.4	<b>←</b>	,	000 OK (INI) (ITE)			
	ANM	<b>~</b>	<b>←</b>	200 OK (INVITE)			
			7	ACK			
	CPG 1		_	INIVITE 4 (academbe)			
	CPG 1	<b>→</b>	<b>→</b>	INVITE 1 (sendonly)			
			_	200 OK INVITE (recvonly)			
	→ ACK						
	CPG 2	<b>→</b>	<b>→</b>	INIVITE 2 (condragy)			
	OFG 2	7	<b>→</b>	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)			
			<b>→</b>	ACK			
		Annly nost tost	-				
		Apply post test	routi	IIE			

TP number	TP 312 005	Reference	7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	12				
Test Purpose name	I-MGCF: Session not on hold,					
Test Purpose	A session at the I-MGCF is in t					
	established. Ensure that on red		eneric notification indicator is			
	set to 'Conference disconnecte	d' no reINVITE is sent				
ISUP Parameter values	CPG 1: Generic notification					
	Conference esta	blished				
	CPG 2: Generic notification					
	Conference disc	onnected				
SIP Parameter values						
Comments	This state is applicable for COI	NF and 3PTY				
Message flows	Mg	MGCF	ISUP			
	INVITE ->	<b>→</b>	IAM			
	100 Trying ←					
	180 Ringing ←		ACM			
	100 runging	•	7.0101			
	200 OK (INVITE)	<b>←</b>	ANM			
		<del>-</del>	AINIVI			
	ACK →					
		_				
		<b>←</b>	CPG 1			
		<b>←</b>	CPG 2			
		Apply post test routine	0.02			

TD mumb or	TD 040 000	Deference	7 4 4 4			
TP number	TP_312_006	Reference	7.4.14			
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	13				
Test Purpose name	O-MGCF: Session not on hold,	notification 'Conference di	sconnected'			
Test Purpose	A session at the O-MGCF is in	the confirmed state not set	t on hold and a conference is			
	established. Ensure that on rec	eipt of a CPG message the	e Generic notification indicator is			
	set to 'Conference disconnecte					
ISUP Parameter values	CPG 1: Generic notification					
	Conference esta	blished				
	CPG 2: Generic notification					
	Conference disc	onnected				
SIP Parameter values	Comprehensial aleas	Similation of the second				
Comments	This state is applicable for CON	NF and 3PTY				
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	NVITE			
		<b>←</b> ·	100 Trying			
	ACM ←	<del>-</del>	180 Ringing			
	/ CIVI	•	100 Kinging			
	ANM ←	<b>+</b> 2	200 OK (INVITE)			
	AINIVI		,			
		7	ACK			
	000 4					
	CPG 1 →					
	CPG 2 →					
	CFG 2	Apply post tost routing				
		Apply post test routine	<b>)</b>			

TP number	TP_312_007	Reference	7.	4.14			
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13						
Test Purpose name	I-MGCF: Session on hold, no	otification 'Conference disconne	ected	'			
Test Purpose		A session at the I-MGCF is in the confirmed state set on hold and a conference is					
		established. Ensure that on receipt of a CPG message the Generic notification indicator is					
		cted' a reINVITE request is sen	t the	'a' attribute in the SDP is			
	set to 'sendonly'						
ISUP Parameter values	CPG 1: Generic notification	on					
	Remote hold						
	CPG 2: Generic notification						
	Conference es						
	CPG 3: Generic notification						
	Conference di	sconnected					
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	PTV					
Message flows	Mg	MGCF		ISUP			
eeeage nene	INVITE	→ ····••	<b>→</b>	IAM			
	100 Trying	<del>-</del>	-	.,			
	180 Ringing	<b>←</b>	<b>←</b>	ACM			
	i so i miging	_	_	7.5			
	200 OK (INVITE)	<b>←</b>	<b>←</b>	ANM			
	ACK	<b>→</b>	_	,			
	7.5.1	_					
	INVITE 1 (sendonly)	<b>←</b>	<b>←</b>	CPG 1			
	200 OK INVITE (recvonly)	<b>→</b>	-	0.01			
	ACK	<b>←</b>					
	7.5.1	_					
	INVITE 2 (sendrecv)	<b>←</b>	<b>←</b>	CPG 2			
	200 OK INVITE (sendrecv)	<b>→</b>					
	ACK	<b>←</b>					
	INVITE 3 (sendonly)	<b>←</b>	<b>←</b>	CPG 3			
	200 OK INVITE (recvonly)	<b>→</b>					
	ACK	<b>←</b>					
		Apply post test routine					
	L	Plany la constitución de const					

TP number	TP_312_008	Reference	7.4.14
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/1 AND PICS 6	.3.2/13	
Test Purpose name		d, notification 'Conference di	sconnected'
Test Purpose	A session at the O-MGCF	is in the confirmed state set	t on hold and a conference is
-	established. Ensure that o	n receipt of a CPG message	e the Generic notification indicator is
	set to 'Conference disconr	nected' a reINVITE request i	s sent the 'a' attribute in the SDP is
	set to 'sendonly'		
ISUP Parameter values	CPG 1: Generic notifica		
	Remote hold		
	CPG 2: Generic notifica		
	Conference		
	CPG 3: Generic notifica		
CID Deservator value		disconnected	
SIP Parameter values	INVITE 1: SDP		
	a=sendonly		
	a=sendrecv		
	INVITE 1: SDP		
	a=sendonly		
Comments	This state is applicable for		
Message flows	Mg	MGCF	ISUP
_		A conference is estab	lished
	IAM	→	INVITE
		<b>+</b>	100 Trying
	ACM	÷	180 Ringing
	ANM	=	
		<b>→</b>	ACK
	CPG 1	=	,
		<b>+</b>	
		<del>)</del>	ACK
		_	
	CPG 2	=	
		<del>(</del>	(
		<del>)</del>	ACK
	CDC 2	<u>,                                     </u>	INIVITE 2 (condent)
	CPG 3	=	
		<b>←</b>	
		-	7.01.
		Apply post test rou	une

TP number	TP_312_009	Reference	7.4.14		
TSS reference	PSTN-SS/CONF/	•			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13				
Test Purpose name	I-MGCF: notification 'isolated'	and 'reattached' interworked			
Test Purpose	Generic notification indicator i the SDP is set to 'sendonly'. S	s established. Ensure that on rest to 'isolated' a relNVITE resubsequently on receipt of a Clareattached' a relNVITE reques	equest is ser PG message	nt the 'a' attribute in e the Generic	
ISUP Parameter values	CPG 1: Generic notification Conference established CPG 2: Generic notification isolated CPG 2: Generic notification reattached				
SIP Parameter values	INVITE 1: SDP  a=sendonly INVITE 2: SDP  a=sendrecv				
Comments	This state is applicable for CC	NF			
Message flows	Mg	MGCF		ISUP	
	INVITE 100 Trying 180 Ringing	<b>→ ← ←</b>	→ IAM ← ACM		
	200 OK (INVITE) ACK	<b>←</b> →	<b>←</b> ANM		
			← CPG	1	
	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK	<b>←</b> → <b>←</b>	← CPG 2	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/0			•
Selection criteria	PICS 6.3.1	/1 AND PICS 6.3.2/	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	IIIVIIL I.	a=sendonly		
	INVITE 2:			
		a=sendrecv		
Comments	This state i	s applicable for CON	NF	
Message flows		/lg	MGCF	ISUP
	IAM	<b>→</b>	=	INVITE
			•	₹ 100 Trying
	ACM	<b>←</b>	•	180 Ringing
	ANM	<b>←</b>	•	
			-	<b>▶</b> ACK
	CPG 1	<b>→</b>		
		_	_	
	CPG 2	<b>→</b>	<del>-</del>	INVITE 1 (sendonly)
			_	200 OK INVITE (recvonly)
			-	ACK
	CDC a	_3	•	INIVITE O (condrany)
	CPG 3	<b>→</b>		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 6.3.1/1 AND PICS 6.3	5.2/14			
Test Purpose name	oFCi CUG outgoing access	allowed call successful			
Test Purpose	Ensure that on receipt of an IAM the optional Forward call indicator is set to 'CUG with outgoing access allowed' an INVITE is sent. No CUG information is present in the INVITE				
ISUP Parameter values	IAM: Optional Forward Ca	Ill indicator: CUG with outgoi	ng access allowed		
SIP Parameter values					
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →		→ INVITE		
			← 100 Trying		
		Apply post test routing	ne		

TP number	TP 313 002	Reference	7.4.16				
TSS reference	PSTN-SS/CUG/	-					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/14					
Test Purpose name	oFCi CUG outgoing access n	•					
Test Purpose	Ensure that on receipt of an Loutgoing access not allowed the INVITE or a REL messag	Ensure that on receipt of an IAM the optional Forward call indicator is set to 'CUG with outgoing access not allowed' either an INVITE is sent, no CUG information is present in the INVITE or a REL message is sent the cause value is set to 29 and diagnostics indicating CUG without access is sent towards the originating exchange					
ISUP Parameter values	REL: Cause value (if sent) 29	indicator: CUG with outgoing a	ccess not allowed				
	Diagnostics=CUG	without access					
SIP Parameter values							
Comments							
Message flows	ISUP IAM → CASE A	MGCF	Mg				
		<b>→</b>	INVITE				
		<b>←</b>	100 Trying				
		Apply post test routine	, ,				
	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 6.3.1/1 AND PICS	6.3.2/15	
Test Purpose name	Precedence parameter r	eceived in IAM, discarded	
Test Purpose	Ensure that on receipt of discarded without affect		rameter is present, this parameter is
ISUP Parameter values	IAM: Precedence	<u> </u>	
SIP Parameter values			
Comments			
Message flows	ISUP	MGCF	Mg
	IAM	<b>→</b>	→ INVITE
			← 100 Trying
		Apply post test rou	tine

TP number	TP_314_002	Reference		7.4.17
TSS reference	PSTN-SS/MLPP/	•		
Selection criteria	PICS 6.3.1/1 AND	D PICS 6.3.2/15		
Test Purpose name	A REL cause #91	terminates an early dialogu	е	
Test Purpose				ogue at the O-MGCF and the
				eason header is contained in the
		and the cause value is set	: to '9'	
ISUP Parameter values	<b>REL:</b> Cause = 9			
SIP Parameter values	CANCEL: Reaso	n: Q.850 [5]; cause=9		
Comments				
Message flows	ISUP	MGCF		Mg
		A Session is alrea	ady in early o	dialogue
	REL	<b>→</b>	<b>→</b>	CANCEL
	RLC	<b>←</b>	<b>←</b>	200 OK CANCEL
			<b>←</b>	487 Request Terminated
			<b>→</b>	ACK

TP number	TP_314_003	Reference	7.4.17			
TSS reference	PSTN-SS/MLPP/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	15				
Test Purpose name	A REL cause #8 terminates an	early dialogue				
Test Purpose	Ensure that on receipt of a REI Cause value is set to '8', a 4xx in the final response message	or 5xx final response is sent. A	A Reason			
ISUP Parameter values	REL: Cause = 8					
SIP Parameter values	480: Reason: Q.850 [5]; caus	se=8				
Comments						
Message flows	Mg	MGCF		ISUP		
	A Session is already in early dialogue					
	4xx/5xx	<b>←</b>	<b>←</b>	REL		
	ACK	<b>→</b>	<b>→</b>	RLC		

TP number	TP_314_004	Reference		7.4.17
TSS reference	PSTN-SS/MLPP/	·		
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/15		
Test Purpose name	A REL cause #9 ter	minates a confirmed dialogue		
Test Purpose				logue and the Cause value is led in the BYE request and the
ISUP Parameter values	REL: Cause = 9			
SIP Parameter values	BYE: Reason: Q.8	50 [5]; cause=9		
Comments				
Message flows	Mg	MGCF		ISUP
		A Session is already	establish	ned
	REL	<b>→</b>	<b>→</b>	BYE
	RLC	<b>←</b>	<b>←</b>	200 OK BYE

## 6.2.15 Global Virtual Network Service (GVNS)

TP number	TP_315_001	Reference	7.4.18						
TSS reference	PSTN-SS/GVNS/								
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/2	6							
Test Purpose name	Forward GVNS parameter in IA	M discarded							
Test Purpose	Ensure that on receipt of an IAI GVNS parameter is discarded								
ISUP Parameter values	IAM: Called party number Forward GVNS Originating participating service provider GVNS user group Terminating network routing number								
SIP Parameter values									
Comments									
Message flows	Mg	MGCF	ISUP						
	IAM →								
		← 100 Trying							
		Apply post test routine							

# 6.2.16 Reverse charging (REV)

TP number	TP 316 001   Reference   7.4.20						
TSS reference	PSTN-SS/REV/						
Selection criteria	PICS 6.3.7/1 AND PICS 6.3.1/1 AND PICS 6.3.2/17						
Test Purpose name	REV request from the calling 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 REVCallingReqSetup invoke transferRequested = true callingUserNumber						
SIP Parameter values							
Comments							
Message flows	ISUP MGCF Mg  IAM → INVITE  ← 100 Trying  Apply post test routine						

TP number	TP_316_002	Reference	7.4.20						
TSS reference	PSTN-SS/REV/								
Selection criteria	PICS 6.3.7/1 AND PI	CS 6.3.1/1 AND PICS 6.3.2/17							
Test Purpose name	REV request from the	e calling user during the active	state of the call						
Test Purpose	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	ISUP	MGCF	Mg						
-	A confirmed dialogue is already established								
	FAC	FAC →							
	Apply post test routine								

TP number	TP_316_003	Reference	7.4.20			
TSS reference	PSTN-SS/REV/					
Selection criteria	PICS 6.3.7/1 AND PIC	CS 6.3.1/1 AND PICS 6.3.2/17	7			
Test Purpose name	REV request from the	called user during the active	state of the call			
Test Purpose	Ensure that on receipt of a FAC message at the I-MGCF in the active state of a call and a Remote Operation parameter is present containing a REVCalledRequest invoke component, the FAC message is discarded without affect the present call					
ISUP Parameter values	transfer	ation  Request invoke rRequested = true  serNumber				
SIP Parameter values						
Comments						
Message flows	Mg	MGCF A confirmed dialogue is alro  Apply post test re	<b>←</b> FAC			

TP number	TP_316_004	Reference	7.4.20				
TSS reference	PSTN-SS/REV/						
Selection criteria	PICS 6.3.7/2 AND PIC	CS 6.3.1/1 AND PICS (	6.3.2/17				
Test Purpose name	REV request in IAM ex						
Test Purpose	<ul> <li>Ensure that on receipt of an IAM message and a Remote Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a:</li> <li>ANM a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork OR</li> <li>REL a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork and the Cause value is set to '29'</li> </ul>						
ISUP Parameter values	IAM: Called party nu Remote Opera REVCalling transfer callingU ANM: Remote Opera REVCalling rejected REL: Cause 29 Remote Opera REVCalling REVCalling	umber Ition gReqSetup invoke Requested = true JserNumber Ition gReqSetup return error JByNetwork					
SIP Parameter values	10,0000	.by Hothon					
Comments							
Message flows	ISUP IAM CASE A	MGCF →		Mg			
	ACM ANM	← ← Apply pos	→ INVITE ← 180 Ringing ← 200 OK INVI → ACK t test routine	TE			
	REL RLC	<b>←</b> →					

TP number	TP_316_005	Reference	7.4.20					
TSS reference	PSTN-SS/REV/	·	•					
Selection criteria	PICS 6.3.7/2 AN	ID PICS 6.3.1/1 AND PICS 6.3.2/17	7					
Test Purpose name	REV request in t	he active state explicit rejected at the	he O-MGCF					
Test Purpose	Ensure that on re and a Remote O component and t message a Rem	Ensure that on receipt of an FAC message at the O-MGCF in the active state of the call and a Remote Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a FRJ message a Remote Operation parameter containing a REVCallingReqActive return error						
		o rejectedByNetwork						
ISUP Parameter values	tra ca <b>FRJ:</b> Remote C REVC	CallingReqActive invoke ansferRequested = true allingUserNumber						
SIP Parameter values								
Comments								
Message flows	FAC FRJ	MGCF A confirmed dialogue is alre  →  ←	•					
		Apply post test re	outine					

TP number	TP_316_006	Reference	7.4.20
TSS reference	PSTN-SS/REV/		
Selection criteria	PICS 6.3.7/2 ANI	D PICS 6.3.1/1 AND PICS 6.3.2/17	
Test Purpose name	REV request in the	he active state explicit rejected at the	I-MGCF
Test Purpose	and a Remote Op component and to message a Remo	eceipt of an FAC message at the O-N peration parameter is present contain the explicit rejection of this service is note Operation parameter containing a prejectedByNetwork	ning REVCallingReqSetup invoke supported, the SUT sends in a FRJ
ISUP Parameter values	FAC: Remote C REVC tra cal FRJ: Remote C REVC	Operation calledRequest 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	Refere	ence		7.4.21.1	.2
TSS reference	PSTN-S	S/UUS/					
Selection criteria	PICS 6.3	3.1/1 AND PI	CS 6.3.2/18				
Test Purpose name	User to u	user informat	ion received in a	n INVITE is se	nt in an I	AM	
Test Purpose	'encoding	g' parameter er is present.	is set to 'hex' an The User Inform	ISUP IAM meation is derive	ssage is d from th	sent. A U le uuidata	E request and the ser-to-user parameter of the criminator is set to
ISUP Parameter values	IAM: U	ser-to-user li	nformation				
		User Inforr	mation				
SIP Parameter values	INVITE:	User-to-Us	ser: <uuidata>; ei</uuidata>	ncoding=hex			
Comments							
Message flows		Mg		MGCF			ISUP
	INVITE		<b>→</b>		<b>→</b>	IAM	
	100 Tryir	ng	<b>←</b>				
		-	App	y post test ro	utine		

TP number	TP_317_002	Reference	7.4.21.1.2		
TSS reference	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18			
Test Purpose name	User to user information receiv	ved 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 User Information	n			
SIP Parameter values	CANCEL: User-to-User: <uuidata>; encoding=hex</uuidata>				
Comments					
Message flows	Mg	MGCF	ISUP		
	INVITE -	<b>→</b>	IAM		
	CANCEL 200 OK CANCEL	<del>-</del>	REL RLC		

TP number	TP_317_003	Reference	7.4.21.1.2		
TSS reference	PSTN-SS/UUS/	•			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/18			
Test Purpose name	User to user information recei	ved in a BYE is sent in a REL			
Test Purpose	Ensure that on receipt of a User-to-User header field in a BYE request after a confirmed dialogue was established and the 'encoding' parameter is set to 'hex' an ISUP REL message is sent. A User-to-user parameter is present. The User Information is derived from the uuidata parameter of the SIP User-to-User header field and the ISUP User-to-user Protocol discriminator is set to '04'				
ISUP Parameter values	REL: User-to-user Information				
	User Information				
SIP Parameter values	BYE: User-to-User: <uuidata>; encoding=hex</uuidata>				
Comments					
Message flows	Mg	MGCF	ISUP		
	A confirmed dialogue is already established				
	BYE	→	REL		
	200 OK BYE	+	RLC		

TP number	TP_317_0	004	Reference	7.4.21.1.3	
TSS reference	PSTN-SS	/UUS/			
Selection criteria	PICS 6.3.	1/1 AND PICS 6.3.2/1	18		
Test Purpose name	User to us	ser information receive	ed in an IAM is sent in an INV	'ITE	
Test Purpose	Ensure th	at on receipt of User-t	to-user parameter contained i	n an IAM, an INVITE request	
				parameter is derived from the	
	User Info	rmation of the User-to	-user parameter of the IAM, t	ne encoding parameter is set	
	to 'hex'				
ISUP Parameter values	IAM: Us	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				
			<b>←</b>	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 6.3.1/1 AND PICS 6.3.2/	18				
Test Purpose name	User to user information receiv	ed in a REL is sent in a CANC	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					
SIP Parameter values	CANCEL: User-to-User: <uuid< th=""><th>ata&gt;; 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					

TP number	TP_317_006	Reference	7.4.21.1.3			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18				
Test Purpose name	User to user information receiv	ed in a REL is sent in a BYE				
Test Purpose	Ensure that on receipt of User-to-user parameter contained in a REL after the dialogue is confirmed, a BYE request is sent and the User-to-User header is present. The uuidata parameter is derived from the User Information of the User-to-user parameter of the REL, the encoding parameter is set to 'hex'					
ISUP Parameter values	REL: User-to-user Information User Information	REL: User-to-user Information User Information				
SIP Parameter values	CANCEL: User-to-User: <uuidata>; encoding=hex</uuidata>					
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 6.3.1/1 AND	PICS 6.3.2/18 AND NOT	PICS 6.3.8/1			
Test Purpose name	User-to-user indic	cator service 1 'not essenti	al' received in IAI	M, discarded		
Test Purpose		ceipt of an IAM and a Use est is 'not essential' the cal		r parameter for the service 1 is upted		
ISUP Parameter values	Reques not User-to-us	IAM: User-to-user Indicator Request service 1 not essential User-to-user Information User Information				
SIP Parameter values						
Comments						
Message flows	Mg IAM ACM ANM	MG    ←  ←  Apply po:	CF	ISUP INVITE 180 Ringing 200 OK INVITE ACK		

TP number	TP_317_102	Re	ference	7.4.21.2		
TSS reference	PSTN-SS/UUS/	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND	PICS 6.3.2/18 A	ND PICS 6.3.8/1			
Test Purpose name	User-to-user indica response in ACM of			n IAM, User-to-user indicator		
Test Purpose	present the reques	st is 'not essentia		cator parameter for the service 1 is disrupted A User-to-user indicator not provided		
ISUP Parameter values	IAM: User-to-user Indicator Request service 1 not essential User-to-user Information User Information ACM or ANM: User-to-user Indicator Response service 1					
SIP Parameter values	not Provided					
Comments						
Message flows	Mg IAM ACM ANM	→ ← ←	MGCF  pply post test routin	ISUP  → INVITE  ← 180 Ringing  ← 200 OK INVITE  → ACK e		

TP number	TP 317 103	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria		C 2 2/40 AND DICC C 2 8/4				
		6.3.2/18 AND PICS 6.3.8/1				
Test Purpose name	User-to-user indicator ser	rvice 1 'essential' received ir	IAM, call is rejected			
Test Purpose	Ensure that on receipt of	an IAM and a User-to-user i	ndicator parameter for the service 1 is			
	present the request is 'es	sential' the call setup is reje	cted. A REL is sent the Cause value is			
	set to '29 ' the Diagnostic	s field contains the paramet	er name of the User-to-user indicator			
	'42'	р				
ISUP Parameter values	IAM: User-to-user Indic	ator				
	Request service	ce 1				
	essential					
		mation				
		User-to-user Information				
	User Information					
	REL: Cause indicator					
	Cause 29					
	Diagnostics 42					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	IAM					
	REL	←				
		` →				
	IKLU	7				

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

TP number	TP_317_201	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18 AND NOT PICS 6.3.8/1				
Test Purpose name	User-to-user indicator service 2	2 'not essential' received in IAM	l, 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					
	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 6.3.1/1 AND PICS 6.3.2/	18 AND PICS 6.3.8/1				
Test Purpose name	User-to-user indicator service 2	'not essential' received in IAM	1, User-to-user indicator			
	response in ACM or ANM 'not p	provided'				
Test Purpose	Ensure that on receipt of an IAI					
	present the request is 'not esse	ential', the call setup is not disru	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	า				
	User Information					
	ACM or ANM:					
	User-to-user Indicator					
	Response service 2					
	not Provided					
SIP Parameter values						
Comments						
Message flows	Mg MGCF ISUP					
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>←</b>	200 OK INVITE			
		<b>→</b>	ACK			
	Apply post test routine					

TP number	TP_317_203	Reference	7.4.21.2			
TSS reference	PSTN-SS/UUS/	PSTN-SS/UUS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/18 AND PICS 6.3.8/1				
Test Purpose name	User-to-user indicator service	2 'essential' received in IAM, ca	all is rejected			
Test Purpose	present the request is 'essent	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 2 is present the request is 'essential', the call setup is rejected. A REL is sent the Cause value is set to '29' the Diagnostics field contains the parameter name of the User-to-user				
ISUP Parameter values	IAM: User-to-user Indicator Request service 2 essential User-to-user Information User Information REL: Cause indicator Cause 29					
SIP Parameter values	Diagnostics 42					
Comments						
Message flows	Mg IAM → REL ← RLC →	MGCF	ISUP			

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

TP number	TP_317_301	Reference		7.4.21.2			
TSS reference	PSTN-SS/UUS/	·		•			
Selection criteria	PICS 6.3.1/1 AND P	PICS 6.3.2/18 AND NOT PI	CS 6.3.8/1				
Test Purpose name	User-to-user indicato	or service 3 'not essential' i	eceived in IAN	M, discarded			
Test Purpose	Ensure that on recei	pt of an IAM and a User-to	-user indicator	r parameter for the service 3 is			
	present the request i	is 'not essential' the call se	tup is not disru	upted			
ISUP Parameter values	IAM: User-to-user	Indicator					
	Request s	service 3					
	not es	sential					
	User-to-user Information						
	User Information						
SIP Parameter values							
Comments							
Message flows	Mg MGCF ISUP						
	IAM	<b>→</b>	<b>→</b>	INVITE			
		← 100 Trying					
		Apply post test routine					

TP number	TP_317_302	Reference	7.4.21.2				
TSS reference	PSTN-SS/UUS/						
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	18 AND PICS 6.3.8/1					
Test Purpose name	User-to-user indicator service a response in ACM or ANM 'not		I, User-to-user indicator				
Test Purpose	Ensure that on receipt of an IAM and a User-to-user indicator parameter for the service 3 is present the request is 'not essential', the call setup is not disrupted A User-to-user indicator is sent in an ACM or ANM with a response for service 3 'not provided'						
ISUP Parameter values	IAM: User-to-user Indicator Request service 3 not essential User-to-user Information User Information ACM or ANM: User-to-user Indicator Response service 3						
	not Provided						
SIP Parameter values							
Comments							
Message flows	Mg IAM → ACM ← ANM ←	MGCF  ←  ←  →	ISUP INVITE 180 Ringing 200 OK INVITE ACK				
		Apply post test routine					

TP number	TP_317_303	Reference	7.4.21.2	)		
TSS reference	PSTN-SS/UUS/					
Selection criteria	PICS 6.3.1/1 AND PICS	S 6.3.2/18 AND PICS 6.3.8/1				
Test Purpose name	User-to-user indicator s	service 3 'essential' received	in IAM, call is rejec	cted		
Test Purpose	Ensure that on receipt of	of an IAM and a User-to-use	indicator paramet	er for the service 3 is		
	present the request is 'e	essential', the call setup is re	jected. A REL is se	ent the Cause value		
	is set to '29' the Diagno	stics field contains the paran	neter name of the	User-to-user		
	indicator '42'					
ISUP Parameter values	IAM: User-to-user Ind	licator				
	Request serv					
	essential					
	User-to-user Info	ormation				
	User Informa					
	REL: Cause indicator					
	Cause 29					
	Diagnostics 42					
SIP Parameter values						
Comments						
Message flows	Mg	MGCF		ISUP		
	IAM → INVITE					
	ACM ← 180 Ringing					
	ANM	<b>←</b>	← 200 OK	INVITE		
			→ ACK			
		Apply post test re	outine			

## 6.2.18 Anonymous Call rejection

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

TP number	TP_318_002	Reference	7.4.23
TSS reference	PSTN-SS/ACR/		<u>.</u>
Selection criteria			
Test Purpose name	Receipt of 433		
Test Purpose		eipt of a 433 (Anonymity Disassent, an ISUP REL cause	allowed) final response after an initial #24 is sent
ISUP Parameter values		call rejected due to ACR sup	
SIP Parameter values		<del>-</del>	
Comments			
Message flows	Mg	MGCF	ISUP
_	IAM	<b>→</b>	→ INVITE
			← 100 Trying
	REL	<b>←</b>	← 433 (Anonymity Disallowed)
	RLC	→	→ ACK
		Apply post to	est routine

## 6.3 IMS Supplementary Services

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

		T					
TP number	TP_401_001	Reference	7.5.1				
TSS reference		IMS-SS/OIP-OIR/					
Selection criteria		PICS 6.3.3/1 AND PICS 6.3.2/1					
Test Purpose name		•	ted-Identity not present. Network				
	P	provided number is sent					
Test Purpose			sserted-Identity is not present and the				
	From header does not contain an URI that encodes an E.164 Address, an IAM is s						
	An Calling party numbe SUT	er parameter is present and th	ne address digits are provided by the				
ISUP Parameter values	IAM: Calling party N	umber					
	Number incomplete indicator=Complete  Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1]						
Nature of Address Indicator							
			ne CC of the country where MGCF is				
			e is located in the same country then				
		nal (significant) number					
	else						
	international number						
		Screening indicator=Network Provided					
		restriction=restricted or allow					
		nal provided by the Network					
	if NOA is "national (significant) number" then set to "NDC" + "SN"						
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN"						
SIP Parameter values	INVITE: P-Asserted-Identity: not present						
Comments	From: does not contain a URI that encodes an E.164 address						
••••••	DA or	MOCE	ICUD				
Message flows	Mg	MGCF	ISUP → IAM				
	INVITE	<del>)</del>	→ IAM				
	100 Trying	← Annly post tost re	tim a				
	Apply post test routine						

TP number	TP_401_0	02	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3	3/1 AND PICS 6.3.3/-	4 AND PICS 6.3.2/1				
Test Purpose name	INVITE red	ceived. From header	not present, P-Asserted-Ident	ity not present. Network			
		umber is sent					
Test Purpose			VITE request the P-Asserted-I				
			an URI that encodes an E.164				
			eter is present and the address				
			on indicator is set to 'presenta	tion restricted by network'			
ISUP Parameter values		ling party Number					
		Number incomplete					
			icator= <i>ISDN/Telephony (Reco</i>	mmendation E.164 [i.1])			
		Nature of Address Ir					
			the URI is equal to the CC of				
			next BICC/ISUP node is locat	ed in the same country then			
			nificant) number				
		else					
	international number						
	Screening indicator=Network Provided						
		Presentation restriction=presentation restricted by network					
		Address signal provided by the Network					
	if NOA is "national (significant) number" then set to "NDC" + "SN"						
CID Devementary values	INIVITE:		ational number" then set to "CO	C"+" NDC"+"SN"			
SIP Parameter values	INVITE:	P-Asserted-Identity:	•	04 - 4-1			
0	1	From: does not cont	ain a URI that encodes an E.1	64 address			
Comments	1	Mai	MOCE	IEUD			
Message flows	INNATE	Mg	MGCF	ISUP			
	INVITE	<b>→</b>		IAM			
	100 Trying	· · ·					
	Apply post test routine						

TP number	TP 401 003	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/	11 _ 10 1 _ 000					
Selection criteria	PICS 6.3.3/2 AND	PICS 6.3.2/1					
Test Purpose name		INVITE received. From header not present, P-Asserted-Identity not present. Address digits					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header does not contain an URI that encodes an E.164 Address, an IAM is sent. A Calling party number parameter is present and the address digits omitted						
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 or allowed						
SIP Parameter values	Address signal Address digits not present  INVITE: P-Asserted-Identity: not present From: does not contain a URI that encodes an E.164 address						
Comments							
Message flows	Mg INVITE 100 Trying	MGCF → ← Apply post test ro	→ IAM				

TP number	TP_401_004	Re	eference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/2 /	AND PICS 6.3.3/3 A	ND PICS 6.3.2/1			
Test Purpose name	INVITE receiv 'Address not a		t present, P-Asserted-Ident	ity not present APRI is set to		
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header does not contain an URI that encodes an E.164 Address, an IAM is sent. A Calling party number parameter is present and the address digits omitted. The Presentation restriction indicator is set to 'Address not available'					
ISUP Parameter values	IAM: Calling party Number					
	Number incomplete indicator=Complete Numbering Plan Indicator='000' Nature of Address Indicator='0000000' Screening indicator=Network Provided Presentation restriction=Address not available Address signal Address digits not present					
SIP Parameter values	INVITE: P-Asserted-Identity: not present From: does not contain a URI that encodes an E.164 address					
Comments	FIO	in. does not contain	a UKI tilat elicodes ali E. I	04 audiess		
Message flows	Mg MGCF ISUP  INVITE → IAM  100 Trying ←					
			Apply post test routine			

TP number	TP_401_005	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/1 PICS 6.3.2/1						
Test Purpose name	INVITE received. From	n header present, P-Asserted	Identity not present. Network provided				
	number is sent	•					
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the						
		an URI that encodes an E.16					
			e address digits are provided by the				
			Generic number parameter and the				
		erived from the Userpart of the	e From header				
ISUP Parameter values	IAM: Calling party						
		complete indicator=Complete					
			ny (Recommendation E.164 [i.1])				
		ddress Indicator					
			he CC of the country where MGCF is				
			le is located in the same country then				
		onal (significant) number					
	else	on ation of accomplish					
		national number					
		ndicator=Network Provided	wood				
		n restriction=restricted or allow	= =				
	Address signal provided by the Network						
	if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is 'international number" then set to "CC"+" NDC"+"SN"						
	Additional calling party number						
	Nature of Address Indicator						
			he CC of the country where MGCF is				
			le is located in the same country then				
	national (significant) number						
	else						
	international number						
	Number incomplete indicator=Complete						
			ny (Recommendation E.164 [i.1])				
	Presentatio	n restriction=restricted or allow	wed				
		ndicator=user provided not ve					
	Address digits derived from the 'From' header						
		s national (significant) numbe					
		s " <i>international number"</i> set to	D "CC"+' NDC'+'SN'				
SIP Parameter values		-Identity: not present					
	From: conta	ains a URI that encodes an E.	164 address				
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
		Apply post test re	outine				

TP number	TP_401_006	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/1 AND PICS 6.3.3/4 AND PICS 6.3.2/1					
Test Purpose name	INVITE received. From header present, P-Asserted-Identity not present. Network provided number is sent					
Test Purpose	From header contains A Calling party number SUT. The Presentatio Additional calling Part signals are derived fro indicator is set to 'pres	s an URI that encodes an E.16 er parameter is present and the en restriction indicator is set to ty number is sent in a Generic om the Userpart of the From he sentation allowed'	sserted-Identity is not present and the 4 Address, an IAM is sent. e address digits are provided by the 'presentation restricted by network'. An number parameter and the Address eader and the Presentation restriction			
ISUP Parameter values	IAM: Calling party I	complete indicator=Complete				
		ı Plan Indicator= <i>ISDN/Telepho</i> Address Indicator	ny (Recommendation E.164 [i.1])			
			he CC of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then national (significant) number					
	else international number					
	Screening indicator=Network Provided					
	Presentation restriction=presentation restricted by network					
	Address signal provided by the Network					
	if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is 'international number" then set to "CC"+" NDC"+"SN"					
	Additional calling party number					
	Nature of Address Indicator					
	located		he CC of the country where MGCF is le is located in the same country then			
	else					
		tional number				
	Number incomplete indicator=Complete					
	Numbering Plan Indicator=ISDN/Telephony ( <i>Recommendation E.164 [</i> i.1 <i>]</i> )  Presentation restriction=allowed					
	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"					
		is "international number" set to				
SIP Parameter values	INVITE: P-Asserted	I-Identity: not present				
	From: conta	ains a URI that encodes an E.	164 address			
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>+</b>	and in a			
		Apply post test ro	outine			

TP number	TP_401_007	Refere	ence	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-0	DIR/					
Selection criteria	PICS 6.3.3/2 AND NOT PICS 6.3.3/5 AND PICS 6.3.2/1						
Test Purpose name	INVITE receiv	ed. From header presen	t, P-Asserted-Identity	not present. Address digits			
	omitted						
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the						
				4 Address, an IAM is sent.			
				s digits omitted. An Additional			
		calling Party number is sent in a Generic number parameter and the Address signals are					
		ne Userpart of the From	header				
ISUP Parameter values		party Number					
		nber incomplete indicate					
		•	• • • •	ommendation E.164 [i.1])			
		ure of Address Indicator					
				the country where MGCF is			
				ted in the same country then			
		national (significant)	number				
		else international number	,				
	Sor						
	Screening indicator=Network Provided						
	Presentation restriction=restricted or allowed						
	Address signal Address digits not present Additional calling party number						
	Nature of Address Indicator						
	140			the country where MGCF is			
				ted in the same country then			
		national (significant) nui		tod in the dame dealthy then			
	else						
	international number						
	Number incomplete indicator=Complete						
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])						
	Presentation restriction=restricted or allowed						
	Screening indicator=user provided not verified						
	Address digits derived from the 'From' header						
	if NOA is national (significant) number then set to "NDC" + "SN"						
		If NOA is "international i		NDC'+'SN'			
SIP Parameter values		sserted-Identity: not pre					
-	Fro	m: contains a URI that e	ncodes an E.164 addr	ess			
Comments							
Message flows	M	<b>d</b>	MGCF	ISUP			
	INVITE	<del>)</del>	<b>→</b>	IAM			
	100 Trying ←						
		Appl	y post test routine				

TP number	TP_401_008	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/2 AND PICS 6.3.3/5 AND PICS 6.3.1/2 AND PICS 6.3.2/1					
Test Purpose name	INVITE received. For omitted	rom header present, P-Asserted-	Identity not present. Address digits			
Test Purpose			sserted-Identity is not present and the an E.164 Address, an IAM is sent.			
			address digits omitted. In addition, the			
		arty number is omitted.				
ISUP Parameter values	IAM: Calling par	ty Number				
		incomplete indicator=Complete				
	Number	ing Plan Indicator=ISDN/Telepho	ny (Recommendation E.164 [i.1])			
		of Address Indicator				
			ne CC of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then					
	national (significant) number					
	else					
	international number					
	Screening indicator=Network Provided					
	Presentation restriction=restricted or allowed					
		s signal Address digits not prese				
SIP Parameter values		calling party number not present ted-Identity: not present	l .			
Sir raiametei vaides		ontains a URI that encodes an E.	64 address			
Comments	1 10111. 0	ontains a Orti that cheedes an E.	OT dddicss			
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>É</b>				
		Apply post test ro	outine			

TP number	TP 401 009	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.2/1					
Test Purpose name		INVITE received. From header not present, P-Asserted-Identity present Privacy not present				
Test Purpose		INVITE request the P-Asserted				
	From header does not contain an URI that encodes an E.164 Address a Privacy header is					
	not present, an IAM is sent.		3 . 7 . a a			
		ameter is present and the addre	ss digits are derived from the			
	P-Asserted-Identity header		3			
ISUP Parameter values	IAM: Calling party Numb	per				
	Number incompl	ete indicator=Complete				
	Numbering Plan	Indicator=ISDN/Telephony (Red	commendation E.164 [i.1])			
	Nature of Addres	ss Indicator				
	If CC encode	ed in the URI is equal to the CC of	of the country where MGCF is			
	located AND	the next BICC/ISUP node is loc	ated in the same country then			
	national (	significant) number	•			
	else					
	international number					
		Screening indicator=Network Provided				
	Presentation res					
		Address signal derived from the P-Asserted-Identity				
		if NOA is "national (significant) number" then set to "NDC" + "SN"				
		ernational number" then set to "C	CC"+" NDC"+"SN"			
SIP Parameter values	INVITE: P-Asserted-Ident					
	From: does not contain a URI that encodes an E.164 address					
_	Privacy not prese	ent				
Comments	<del> </del>					
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	IAM			
	100 Trying	<b>←</b>				
		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 6.3.2/1						
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity present, Privacy value						
	'none'		-				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the						
		From header does not contain an URI that encodes an E.164 Address and a Privacy					
		resent set to 'none',					
	A Calling p	arty number parame	ter is present and the addr	ess digits are derived from the			
			e Presentation restriction is	set to 'presentation 'allowed'			
ISUP Parameter values		ing party Number					
		Number incomplete i					
				ecommendation E.164 [i.1])			
		Nature of Address In					
				of the country where MGCF is			
				cated in the same country then			
	national (significant) number						
	else						
		international number					
		Screening indicator=Network Provided Presentation restriction=allowed					
				149			
	,	Address signal derived from the P-Asserted-Identity  if NOA is "national (circuificant) number" then set to "NDC" + "SN"					
		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	INVITE: P-Asserted-Identity: present						
	From: does not contain a URI that encodes an E.164 address						
Comments		Privacy: none					
	+	Ma	MGCF	ISUP			
Message flows	INIVITE	Mg					
	INVITE	<b>→</b>	·	<b>→</b> IAM			
	100 Trying ←						
	Apply post test routine						

TP number	TP_401_011	Reference	7.5.1, 7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
Selection criteria	PICS 6.3.2/1					
Test Purpose name	INVITE received. Fro	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'id'				
Test Purpose	Ensure that on receip	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
	From header does no	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.				
			e address digits are derived from the			
			ction is set to 'presentation 'restricted'			
ISUP Parameter values	IAM: Calling party	Number				
	Number in	complete indicator=Complete				
			ny (Recommendation E.164 [i.1])			
	Nature of A	Address Indicator				
			he CC of the country where MGCF is			
	located	I AND the next BICC/ISUP nod	le is located in the same country then			
	nati	ional (significant) number				
	else					
	inte	rnational number				
	9	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	E: P-Asserted-Identity: present				
	From: does	From: does not contain a URI that encodes an E.164 address				
	Privacy: id					
Comments						
Message flows	Mg	MGCF	ISUP			
	INVITE	<b>→</b>	→ IAM			
	100 Trying	<b>←</b>				
		Apply post test 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 6.3.2/1						
Test Purpose name	INVITE red	INVITE received. From header not present, P-Asserted-Identity present, Privacy value					
	'user'		•				
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the						
		From header does not contain an URI that encodes an E.164 Address and a Privacy					
		resent set to 'user',					
	A Calling p	arty number parame	ter is present and the ac	ddress digits are derive	ed from the		
			e Presentation restriction	n is set to 'presentation	ı 'restricted'		
ISUP Parameter values		ling party Number					
		Number incomplete					
			cator=ISDN/Telephony	(Recommendation E.1	<i>64 [</i> i.1 <i>])</i>		
		Nature of Address In					
			the URI is equal to the				
			next BICC/ISUP node is	located in the same c	ountry then		
		national (significant) number					
	else						
		international number					
		Screening indicator=Network Provided Presentation restriction=restricted					
				1.1.1			
		Address signal derived from the P-Asserted-Identity  if NIOA is "national (cignificant) number" then set to "NIDC" + "SNI"					
		if NOA is " <i>national (significant) number"</i> then set to "NDC" + "SN"  If NOA is ' <i>international number</i> " then set to "CC"+" NDC"+"SN"					
SIP Parameter values	INVITE: P-Asserted-Identity: present						
Sir Parameter values		,	•	n F 161 addraga			
	From: does not contain a URI that encodes an E.164 address						
Comments	+	Privacy: user					
Message flows	+	Mg	MGCF	ISU	ID		
Wiessage HOWS	INVITE	wig →	WIGGE	→ IAM	)T		
				→ IAW			
	, 3						
			Apply post test rout	iie .			

TP number	TP_401_013	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.2/1						
Test Purpose name	INVITE received. From	n header not present, P-Asse	erted-Identity present, Privacy value				
-	'header'	-					
Test Purpose		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					
		o 'header', an IAM is sent.					
			ne address digits are derived from the				
			iction is set to 'presentation 'restricted'				
ISUP Parameter values	IAM: Calling party N						
		omplete indicator= <i>Complete</i>					
			ony (Recommendation E.164 [i.1])				
		ddress Indicator					
			the CC of the country where MGCF is				
			de is located in the same country then				
		nal (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"					
			set to "CC"+" NDC"+"SN"				
SIP Parameter values		Identity: present					
		From: does not contain a URI that encodes an E.164 address					
	Privacy: hea	ader					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>	_				
		Apply post test	routine				

TSS reference Selection criteria	TP_401_0 IMS-SS/C NOT PIC:		•		7.5.1, 7.2.3.1.2.6	
Selection criteria						
		NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header not					
			ing party number not or		processis i irvaey neader net	
					-Identity is present and the	
					ss a Privacy header is not	
		an IAM is sen			· · · · · · · · · · · · · · · ·	
	• ′			nd the addres	ss digits are derived from the	
					ator is set to 'presentation	
					neric number parameter and	
	the Addre	ss signals ar	e derived from the Usern	art of the Fro	om header the Presentation	
			set to 'presentation allow			
ISUP Parameter values	IAM: Ca	Illing party N	lumber			
			omplete indicator=Comp	lete		
					ommendation E.164 [i.1])	
		Nature of A	ddress Indicator			
					of the country where MGCF is	
		located	AND the next BICC/ISUF	onode is loca	ated in the same country then	
		natio	onal (significant) number			
		else				
			national number			
			ndicator=Network Provid	ed		
			n restriction=allowed			
	Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is 'international number" then set to "CC"+" NDC"+"SN"  Additional calling party number  Nature of Address Indicator					
	If CC encoded in the URI is equal to the CC of the country where MGCF is					
	located AND the next BICC/ISUP node is located in the same country then national (significant) number					
			(significant) number			
		else	onal number			
			omplete indicator=Comp	loto		
					ommendation E.164 [i.1])	
			n restriction=allowed	ephony (Aec	ommendation E. 104 [i.1])	
			ndicator=user provided n	ot verified		
			its derived from the 'Fr			
			ร national (significant) ทเ		et to "NDC" + "SN"	
			s "international number"			
SIP Parameter values	INVITE:		Identity: present		-	
			ins a URI that encodes	an E.164 add	ress	
		Privacy not				
Comments		,	•			
Message flows		Mg	MGC	F	ISUP	
-	INVITE	-	<b>→</b>	<b>→</b>	IAM	
	100 Tryin	g	<del>(</del>			
		•	Apply post to	est routine		

TP number	TP_401_015   Reference   7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'none',				
-	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 'none', an IAM is sent.  A Calling party number parameter is present and the address digits are derived from the				
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation allowed'. An Additional calling Party number is sent in a Generic number parameter and the Address signals are derived from the Userpart of the From header the Presentation restriction indicator is set to 'presentation allowed'.				
ISUP Parameter values	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"  Additional calling party number  Nature of Address Indicator				
	If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then national (significant) number				
	else				
	international number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])				
	Presentation restriction=allowed				
	Screening indicator=user provided not verified				
	Address digits <b>derived from the 'From' header</b> if NOA is <i>national (significant) number</i> then set to "NDC" + "SN" If NOA is "international number" set to "CC"+' NDC'+'SN'				
SIP Parameter values	INVITE: P-Asserted-Identity: present From: contains a URI that encodes an E.164 address Privacy: 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-OI	iR/	·				
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1						
Test Purpose name		INVITE received. From header present, P-Asserted-Identity present. Privacy header 'id',					
		ng party number not omitted	,				
Test Purpose			P-Asserted-Identity is present and the				
•			E.164 Address, an IAM is sent Privacy				
		ent set to 'id', an IAM is sent.	······································				
			d the address digits are derived from the				
			triction indicator is set to 'presentation				
		restricted'. An Additional calling Party number is sent in a Generic number parameter and					
			art of the From header the Presentation				
		ator is set to 'presentation restric					
ISUP Parameter values	IAM: Calling						
		ber incomplete indicator=Comple	ete				
			phony (Recommendation E.164 [i.1])				
		re of Address Indicator	, , , , , , , , , , , , , , , , , , , ,				
	Į (	f CC encoded in the URI is equal	to the CC of the country where MGCF is				
			node is located in the same country then				
		national (significant) number	,				
	-	else					
		international number					
	Scre	ening indicator=Network Provide	d				
		sentation restriction=restricted					
	Addı	ress signal <b>derived from the P-A</b>	sserted-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	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					
	j	nternational number					
	Num	ber incomplete indicator=Comple	ete				
			phony (Recommendation E.164 [i.1])				
	Pres	sentation restriction=restricted					
	Scre	ening indicator=user provided no	t verified				
		ress digits derived from the 'Fro					
	if	f NOA is national (significant) nur	mber then set to "NDC" + "SN"				
	If	f NOA is " <i>international number"</i> s	et to "CC"+' NDC'+'SN'				
SIP Parameter values	INVITE: P-As	sserted-Identity: present					
	Fron	n: contains a URI that encodes a	n E.164 address				
	Priva	acy: id					
Comments							
Message flows	Mg	MGCF	ISUP				
-	INVITE	<b>→</b>	→ IAM				
	100 Trying	<b>←</b>					
	, ,	Apply post te	st routine				
		Apply post te					

TP number	TP_401_017   Reference   7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name	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				
IOUD D	restriction indicator is set to 'presentation restricted'				
ISUP Parameter values	IAM: Calling party Number  Number incomplete indicator=Complete  Numbering Plan Indicator=ISDN/Telephony (Recommendation E. 164 [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 Doromotor values	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				
	Apply poor toor routine				

TP number	TP_401_018	Reference	7.5.1, 7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/	<u>.</u>	•		
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name			d-Identity present. Privacy header		
-		calling party number not omitte			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header contains an URI that encodes an E.164 Address, an IAM is sent Privacy header is present set to 'header', 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 Addition the Address signals	onal calling Party number is se	ent in a Generic number parameter and of the From header the Presentation		
ISUP Parameter values	IAM: Calling party		<u> </u>		
ioor i arameter values	Number in Numberin Nature of If CC ( locate	ncomplete indicator=Complete ng Plan Indicator=ISDN/Teleph Address Indicator encoded in the URI is equal to	the CC of the country where MGCF is ode is located in the same country then		
	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				
	locate nation else interna Number in Numberin Presentat Screening Address of	d AND the next BICC/ISUP no nal (significant) number ational number ncomplete indicator=Complete	verified  ' header er then set to "NDC" + "SN"		
SIP Parameter values		ed-Identity: present ntains a URI that encodes an E	E.164 address		
	Privacy: h	neader			
Comments					
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM		
		Apply post test	routine		

TP number	TP_401_019	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2/1						
Test Purpose name	INVITE received. Fro	m header present, P-Asserted-	Identity present. Privacy header not				
_	present, additional ca	alling party number omitted	, ,				
Test Purpose	Ensure that on receip	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the					
	From header contains	From header contains an URI that encodes an E.164 Address a Privacy header is not					
	present, an IAM is se						
			e address digits are derived from the				
			on indicator is set to 'presentation				
	I .	al calling Party number parame	eter is not present				
ISUP Parameter values	IAM: Calling party						
		complete indicator=Complete					
			ny (Recommendation E.164 [i.1])				
		Address Indicator					
			he CC of the country where MGCF is				
			e is located in the same country then				
	national (significant) number						
	else						
		international number					
		Screening indicator=Network Provided					
		Presentation restriction=allowed					
		Address signal <b>derived from the P-Asserted-Identity</b> if NOA is "national (significant) number" then set to "NDC" + "SN"					
CID Deservation and the second		If NOA is 'international number" then set to "CC"+" NDC"+"SN"					
SIP Parameter values		d-Identity: present	404				
	From: contains a URI that encodes an E.164 address						
	Privacy no	t present					
Comments	M <sub>a</sub>	MOOF	ICUD				
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	100 Trying ←						
	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 6.3.3/6 AND PICS 6.3.2/1					
Test Purpose name	INVITE received. From he	ader present, P-Asserted	d-Identity present. Privacy header 'none',			
	additional calling party nur	mber omitted	•			
Test Purpose		e that on receipt of an INVITE request the P-Asserted-Identity is present and the				
		om header contains an URI that encodes an E.164 Address a Privacy header is set to				
	'none', an IAM is sent.					
			ne address digits are derived from the			
			tion indicator is set to 'presentation			
	allowed'. An Additional cal		eter is not present			
ISUP Parameter values	IAM: Calling party Num					
		plete indicator=Complete				
			ony (Recommendation E.164 [i.1])			
	Nature of Addre					
			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 'ir	nternational number" then	set to "CC"+" NDC"+"SN"			
SIP Parameter values		If NOA is 'international number" then set to "CC"+" NDC"+"SN"  P-Asserted-Identity: present				
on rarameter values			164 address			
	Privacy: none	From: contains a URI that encodes an E.164 address				
Comments	1 mady: none					
Message flows	Mg	MGCF	ISUP			
	INVITE	→	→ IAM			
	100 Trying	<b>É</b>	2 17 1191			
	100 Trying	Apply post test r	outine			
	Apply post test routile					

TP number	TP_401_021	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/6 AND PICS 6.3.2	2/1					
Test Purpose name	INVITE received. From heads	er present, P-Asserted-Identity	present. Privacy header 'id',				
	additional calling party number						
Test Purpose		NVITE request the P-Asserted					
		I that encodes an E.164 Addre	ess a Privacy header is set to				
	'id', an IAM is sent.						
		Calling party number parameter is present and the address digits are derived from the					
		e Presentation restriction indic					
		ng 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						
			of the country where MGCF is				
			ated in the same country then				
		gnificant) number					
	else internationa	l number					
		r=Network Provided					
		Presentation restriction=restricted Address signal derived from the P-Asserted-Identity					
		nal (significant) number" then					
		national number" then set to "(					
SIP Parameter values	INVITE: P-Asserted-Identity		30 1 1100 1 611				
on randington rando	1	JRI that encodes an E.164 add	dress				
	Privacy: id	Transition of the control of the con	31000				
Comments	1						
Message flows	Mg	MGCF	ISUP				
	_	<b>→</b>	IAM				
	100 Trying	<b>-</b>					
		Apply post test routine					

TP number	TP_401_022	Reference	7.5.1, 7.2.3.1.2.6				
TSS reference	IMS-SS/OIP-OIR/						
Selection criteria	PICS 6.3.3/6 AND PICS 6	3.3.2/1					
Test Purpose name	INVITE received. From he	eader present, P-Asserted-	Identity present. Privacy header 'user',				
	additional calling party nu	mber omitted					
Test Purpose			sserted-Identity is present and the				
		URI that encodes an E.164	Address a Privacy header is set to				
	'user', an IAM is sent.						
		Calling party number parameter is present and the address digits are derived from the					
			on indicator is set to 'presentation				
		calling Party number param	eter is not present				
ISUP Parameter values	IAM: Calling party Nun						
		Number incomplete indicator=Complete					
		Numbering Plan Indicator=ISDN/Telephony (Recommendation E.164 [i.1])					
	Nature of Addre						
			ne CC of the country where MGCF is				
			e is located in the same country then				
		I (significant) number					
	else	ional aveal a					
		ional number					
		cator=Network Provided					
		Presentation restriction=restricted Address signal derived from the P-Asserted-Identity					
			r" then set to "NDC" + "SN"				
		nternational number" then s					
SIP Parameter values	INVITE: P-Asserted-Ide		BELLO CC + INDC + SIN				
on rarameter values		s a URI that encodes an E.1	64 address				
	Privacy: user	a ord that encodes an E.	104 address				
Comments	i iivady. addi						
Message flows	Mg	MGCF	ISUP				
	INVITE	→	→ IAM				
	100 Trying	<b>←</b>	- 1/ (IV)				
	100 Hyllig	Apply post test ro	outine				
	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 6.3.3/6 AND PICS 6	5.3.2/1				
Test Purpose name			entity present. Privacy header			
	'header', additional calling	party number omitted				
Test Purpose	Ensure that on receipt of a	an INVITE request the P-Ass	serted-Identity is present and the			
		URI that encodes an E.164.	Address a Privacy header is set to			
	'header', an IAM is sent.					
			address digits are derived from the			
			n indicator is set to 'presentation			
		calling Party number parame	ter 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					
			CC of the country where MGCF is			
			is located in the same country then			
		(significant) number				
	else					
		ional number				
		cator=Network Provided				
		estriction=restricted	ad Idantita			
		derived from the P-Assert				
		national (significant) number'				
SIP Parameter values	If NOA is 'international number" then set to "CC"+" NDC"+"SN"					
SIP Parameter values	INVITE: P-Asserted-Identity: present					
	From: contains a URI that encodes an E.164 address					
Comments	Privacy: heade	I				
Message flows	Ma	MGCF	ISUP			
INIESSAYE HUWS	Mg	₩GCF				
	INVITE		→ IAM			
	100 Trying	← Apply post tost rou	tino			
		Apply post test rou	une			

TP number	TP_401_02	4	Reference		7.5.1, 7.2.3.	2.2.3
TSS reference	IMS-SS/OIF	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/	PICS 6.3.2/1				
Test Purpose name	Calling party	number not recei	ved, Additional calling	party nu	ımber not rece	eived,
	unavailable	From header is se	nt			
Test Purpose			M and no Calling part			
			VITE is sent. A P-Ass			esent and the
	URI of the F	URI of the From header is set to 'sip:unavailable@unknown.invalid'				
ISUP Parameter values		ng party number no				
			onal calling party num	nber) not	present	
SIP Parameter values	INVITE: From: sip:unavailable@unknown.invalid					
	Р	-Asserted-Identity	not present			
Comments						
Message flows	М	g	MGCF			ISUP
	IAM	<b>→</b>		<b>→</b>	INVITE	
				<b>←</b>	100 Trying	
			Apply post test ro	outine		

TP number	TP_401_025	Reference	7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name	Calling party number not receivallowed, From header containing		mber received presentation		
Test Purpose	Ensure that on receipt of an IAM and no Calling party number is present and an Additional calling party number is present, an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is derived from the additional calling party number or is network provided				
ISUP Parameter values	IAM: Calling party number 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 →	<b>→</b>	INVITE		
		<b>←</b>	100 Trying		
		Apply post test routine			

TP number	TP 401 026	Reference		7.5.1, 7.2.3.2.2.3			
TSS reference	IMS-SS/OIP-OIR						
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1					
Test Purpose name		Calling party number not received, Additional calling party number received presentation restricted, unavailable From header is sent					
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 pa	rty number not present		esent presentation restricted			
SIP Parameter values	INVITE: From: sip:unavailable@unknown.invalid P-Asserted-Identity not present						
Comments							
Message flows	Mg	MG	CF	ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE			
			<b>←</b>	100 Trying			
		Apply pos	st test routine	· -			

TP number	TP 401 027	Referen	nce	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-0			11.0.1, 11.2.0.2.2.0	
Selection criteria	PICS 6.3.2/1				
Test Purpose name		number received presenta sserted-Identity header ar		nal calling party number not sent	
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'				
ISUP Parameter values	_	party number present pro		t nrecent	
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	<b>→</b>	<b>→</b>	INVITE	
			<b>←</b>	100 Trying	
		Apply	post test routine		

TP number	TP_401_028	Reference	7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-	OIR/		
Selection criteria	PICS 6.3.2/1			
Test Purpose name		number received presentation allowed sentation 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 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		g party number present presentation a ric number (Additional calling party nur		
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	Mg	MGCF	ISUP	
	IAM	<b>→</b>	→ INVITE	
			← 100 Trying	
		Apply post test r	outine	

TP number	TP_401_029	Reference		7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/			•		
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1				
Test Purpose name		received presentation allowed restricted, P-Asserted-Identit				
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 restricted', an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'					
ISUP Parameter values		IAM: Calling party number present presentation allowed Generic number (Additional calling party number) present presentation restricted				
SIP Parameter values	INVITE: From derived from the calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present					
Comments		-				
Message flows	Mg	MGCF		ISUP		
	IAM	<b>→</b>	<b>→</b>	INVITE		
			<b>←</b>	100 Trying		
		Apply post test i	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 6.3	.2/1		
Test Purpose name			presentation restricted, Addition	
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 6.3.2/1					
Test Purpose name			ed, Additional calling party number header and From header are sent			
Test Purpose	indicator is set to the Presentation r A P-Asserted-Ider party number and	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation 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		rty number present presentation rumber (Additional calling party nu	estricted mber) present presentation allowed			
SIP Parameter values	INVITE: From derived from the additional calling party number P-Asserted-Identity derived from the calling party number Privacy: 'id'					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM	<b>→</b>	→ INVITE			
			← 100 Trying			
		Apply post test i	routine			

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 6.3.2	PICS 6.3.2/1					
Test Purpose name			presentation restricted, Addi d, P-Asserted-Identity heade				
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is set to the value 'sip:anonymous@anonymous.invalid'. A Privacy header is present the value is equal to 'id'						
ISUP Parameter values			esent presentation restricted onal calling party number) pr	esent presentation restricted			
SIP Parameter values	INVITE:	From: sip:anonymou	us@anonymous.invalid derived from the calling party	·			
Comments							
Message flows	-	Mg	MGCF	ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE			
			<b>+</b>	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/OIF	P-OIR/					
Selection criteria	PICS 6.3.2/	/1					
Test Purpose name	Calling part	y number received p	resentation restricted by	the network, Additional calling			
		er not received, Fron					
Test Purpose				ber Presentation restriction			
				and an Additional calling party			
	number is n	not present, an INVIT	E is sent. A P-Asserted-I	dentity 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 val	ue is not equal to 'id'				
ISUP Parameter values		IAM: Calling party number present presentation restricted by the network					
	Generic number (Additional calling party number) not present						
SIP Parameter values	INVITE: F						
	P-Asserted-Identity not present						
	Privacy not 'id' or Privacy header not present						
Comments	The 'hostpo	ortion' is implementa	tion dependent				
Message flows	M	lg	MGCF	ISUP			
	IAM	→		→ INVITE			
		← 100 Trying					
			Apply post test routing	e			

TP number	TP_401_034	Refere	nce	7.5.1, 7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-C	IR/		·		
Selection criteria	PICS 6.3.2/1					
Test Purpose name		umber received presenta received presentation all		network, Additional calling s sent		
Test Purpose	indicator is set number is pres INVITE is sent derived from the	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted by the network' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation allowed', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is derived from the address signals of the additional calling party number. A Privacy header is not present or if present the value is not equal to 'id'				
ISUP Parameter values						
SIP Parameter values	INVITE: From					
Comments		•				
Message flows	IAM	<b>→</b>	MGCF → ←	ISUP INVITE 100 Trying		
		Apply	post test routine			

TP number	TP 401 03	35	Reference		7.5.1, 7.2.3.2.2.3
TSS reference	IMS-SS/OI	P-OIR/			•
Selection criteria	PICS 6.3.2	/1			
Test Purpose name			oresentation restricted ation restricted, From		network, Additional calling is sent
Test Purpose	Ensure that on receipt of an IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted by the network' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation restricted', an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to the value 'sip: unavailable@hostportion'. A Privacy header is not present or if present the value is not equal to 'id'				
ISUP Parameter values	IAM: Call	ing party number pre	esent presentation res	tricted b	y the network
	Ger	neric number (Additio	onal calling party numb	oer) pres	sent presentation restricted
SIP Parameter values		From: sip: unavailab P-Asserted-Identity r Privacy not 'id' or Pri		ent	
Comments	The 'hostpe	ortion' is implementa	tion dependent		
Message flows	N	Лg	MGCF		ISUP
	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	100 Trying
			Apply post test ro	utine	

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

TP number	TP_402_00	01	Reference	7.5.2		
TSS reference	IMS-SS/TII	P-TIR/				
Selection criteria	PICS 6.3.1	/2 AND PICS 6.3.2/2	)			
Test Purpose name	INVITE is s	ent the supported he	eader contains the opt	ion tag 'from-change'		
Test Purpose	Optional Fo	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', an INVITE is sent and the Supported header contains the option tag 'from-change'				
ISUP Parameter values		AM: Optional Forward Call Indicators  Connected Line Identity Request = requested				
SIP Parameter values	INVITE:	INVITE: Supported: from-change				
Comments						
Message flows	N	Лg	MGCF	ISUP		
	IAM	<b>→</b>		<ul><li>→ INVITE</li><li>← 100 Trying</li></ul>		
	Apply post test routine					

TP number	TP_402_002	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/	•	•				
Selection criteria	PICS 6.3.1/2 AND PICS 6	.3.2/2					
Test Purpose name	'from-change' tag not inclu	ded in a received provision	nal response				
Test Purpose	Ensure that on receipt of a the ANM is sent as soon a		the 'from-change' tag is not included received				
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 ro	utine				

TP number	TP_402_003	R	eference	7.5.2			
TSS reference	IMS-SS/TIP-TI	R/		•			
Selection criteria	PICS 6.3.1/2 A	ND PICS 6.3.2/2					
Test Purpose name	'from-change' t	ag not included in	a received final response				
Test Purpose		Ensure that on receipt of a final successful response and the 'from-change' tag is not included the ANM is sent					
ISUP Parameter values	IAM: Optiona	I Forward Call Indi	cators				
	Con	nected Line Identit	y Request = requested				
SIP Parameter values	INVITE: Sup	INVITE: Supported: from-change					
	200: from-ch	200: from-change tag not included in the Supported header					
Comments							
Message flows	Mg		MGCF	ISUP			
	IAM	<b>→</b>	-	NVITE			
	ACM	<b>←</b>	+	<ul> <li>180 Ringing</li> </ul>			
	ANM	ANM ← 200 OK (INVITE)					
		→ ACK					
	Apply post test routine						

TP number	TP_402_004	Reference	7.5.2			
TSS reference	IMS-SS/TIP-TIR/	-				
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/2				
Test Purpose name	'from-change' tag includ	led in a received provisiona	l response			
Test Purpose	timer T <sub>TIR1</sub> is started. Th	he ANM is sent as soon as	nd the 'from-change' tag is included the the UPDATE request is received and a			
		connected number is coded	set to 'additional connected number' is d as follows:			
	If CC is equal to ISUP node is loc		untry where SUT is located AND the next hen set to			
	"international	l number"				
		Indicator = complete				
			numbering plan (Recommendation			
	E.164 [i.1])	, , , , , , ,	37			
			ivacy_VA as indicate in table 6.3.2-1			
		Screening Indicator = user provided, not verified				
	Address Signals		W NDG ON			
	If NOA is "national (significant) number" then set to NDC + SN.  If NOA is "international number" then set to CC + NDC + SN  In addition a Connected number is present the address signal are derived from the P-Asserted-Identity in UPDATE request					
ISUP Parameter values	IAM: Optional Forward					
		Connected Line Identity Request = requested				
	ANM: Connected number					
		- additional connected num	nber			
SIP Parameter values	<b>INVITE:</b> Supported: fr					
	180: from-change tag	included in the Supported	header			
Comments	<u> </u>					
Message flows	Mg	MGCF	ISUP			
	IAM	<b>→</b>	→ INVITE			
	ACM	=	<ul> <li>← 180 Ringing</li> <li>← 200 OK (INVITE)</li> </ul>			
		T <sub>TIR1</sub> started	- 200 011 (111112)			
			→ ACK			
	ANIM	<b>←</b>	<b>₹</b> UDDATE			
	ANM	~	<ul> <li>← UPDATE</li> <li>→ 200 OK (UPDATE)</li> </ul>			
	→ 200 OK (UPDATE)  Apply post test routine					
		Apply post test i	Outilie			

TP number	TP_402_005	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/						
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/2					
Test Purpose name	'from-change' tag incl	uded in a received final respo	nse				
Test Purpose			e and the 'from-change' tag is included				
	the timer T <sub>TIR1</sub> is start	ted. The ANM is sent as soon	as the UPDATE request is received				
			cator set to 'additional connected				
		number' is present. The additional connected number is coded as follows:					
	Nature of Address						
			ntry where SUT is located AND the next				
		ocated in the same country, the	nen set to				
	else set to	significant) number"					
		nal number"					
		te Indicator = complete					
			numbering plan (Recommendation				
	E.164 [i.1])	( , , , , , , , , , , , , , , , , , , ,	<b>3</b> , (				
	Address Presenta	tion Restricted Indicator = Pri	vacy_VA as indicate in table 6.3.2-1				
		Screening Indicator = user provided, not verified					
		Address Signals					
		If NOA is "national (significant) number" then set to NDC + SN.  If NOA is "international number" then set to CC + NDC + SN  n addition a Connected number is present the address signal are derived from the P-Asserted-Identity in UPDATE request					
ISUP Parameter values	IAM: Optional Forwa						
loor rarameter values		Line Identity Request = requ	ested				
	ANM: Connected nur		Siled				
		er - additional connected num	ber				
SIP Parameter values		: from-change					
	200: from-change ta	ag included in the Supported I	neader				
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM	<b>→</b>	→ INVITE				
	ACM	<b>←</b>	← 180 Ringing				
		T <sub>TIR1</sub> started	← 200 OK (INVITE)				
			→ ACK				
			. UDD 4.TE				
	ANM	<b>←</b>	← UPDATE				
		Amply most tost	→ 200 OK (UPDATE)				
		Apply post test r	outine				

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

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

TP number	TP_402_006	Reference	7.5.2				
TSS reference	IMS-SS/TIP-TIR/						
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	2					
Test Purpose name	Timer T <sub>TIR1</sub> expires						
Test Purpose		Ensure that on receipt of a 200 OK (INVITE) and the 'from-change' tag is present in the Supported header the timer T <sub>TIR1</sub> is started. After expiry of T <sub>TIR1</sub> the ANM is sent					
ISUP Parameter values	IAM: Optional Forward Call Ir Connected Line Ider ANM: Connected number	ndicators ntity Request = requested					
SIP Parameter values	<b>INVITE:</b> Supported: from-cha 200: from-change tag include	ange ed in the Supported header					
Comments							
Message flows	Mg	MGCF	ISUP				
	IAM →	<b>→</b>	INVITE				
	ACM ←	<b>←</b>	180 Ringing				
	7	Γ <sub>TIR1</sub> started ←	200 OK (INVITE)				
		<b>→</b>	ACK				
	ANM ← 7	T <sub>TIR1</sub> expired  Apply post test routine					

TP number	TP_402_00	7	Reference		7.5.2	
TSS reference	IMS-SS/TIP	P-TIR/			•	
Selection criteria	PICS 6.3.1/2	2 AND PICS 6.3.2/2	2			
Test Purpose name	Interworking	g of SIP Supported	header into Optional	forward	call indicator	
Test Purpose	change' tag	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		onal Forward Call Ir Connected Line Ider	ndicators ntity Request = reque	ested		
SIP Parameter values	INVITE: S	Supported: from-cha	nge			
Comments						
Message flows	M	g	MGCF		ISUP	
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	100 Trying ← Apply post test routine				

TP number	TP_402_008   Reference   7.5.2					
TSS reference	IMS-SS/TIP-TIR/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2					
Test Purpose name	Mapping of Additional connected number presentation allowed into the From header in an					
_	UPDATE request.					
Test Purpose	Ensure that on receipt of an ANM and a Generic number additional connected number is					
	present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the					
	P-Called-Party-ID header and the 'from-change' tag in the Supported header is present.					
	The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional					
	connected number' received in the ANM copied into the From header as described below					
	Generic number					
	Nature of Address Indicator					
	"national (significant) number"					
	Add "+" CC (of the country where the IWU is located) to Generic Number Address					
	Signals then map to user portion of URI scheme used					
	"international number"					
	Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used					
	Address Presentation restriction indicator					
	presentation allowed then no Privacy header present or not "header" or not "user"					
	Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used					
	real cool of great and the great and according to the control of t					
	The P-Asserted-Identity is derived from the Connected number as follows					
	Connected number					
	Nature of Address Indicator					
	"national (significant) number"  Add "+" CC (of the country where the IWU is located) to Connected Number					
	Address Signals then map to user portion of URI scheme used "international number"  Map complete Connected Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator					
	presentation allowed then no Privacy header present or not "header" or not "user"					
	Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used					
ISUP Parameter values	IAM: Optional forward call indicator					
loor raidinotor values	Connected Line Identity Request = requested					
	ANM: Generic number					
	additional connected number					
	Address Presentation restriction indicator = presentation allowed					
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	M. MOOF 1017					
Message flows	Mg MGCF ISUP					
	INVITE					
	200 OK (INVITE) ← ANM					
	UPDATE <b>←</b>					
	200 OK (UPDATE) →					
	Apply post test routine					
	Apply post test routine					

TP number	TP_402_009	Reference	7.5.2		
TSS reference	IMS-SS/TIP-TIR/	1			
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name			n restricted into the From header in		
	an UPDATE request				
Test Purpose	Ensure that on receipt of	an ANM and a Generic num	ber additional connected number is		
	present, a 200 OK (INVIT	ΓΕ) is sent and the P-Asserte	d-Identity copied from the		
			the Supported header is present.		
			uest, containing the 'additional		
	connected number' receive	ved in the ANM copied into the	ne From header as described below		
	Generic number				
	Nature of Address Indica				
	"national (significant)				
			ocated) to Generic Number Address		
		to user portion of URI schem	ne used		
	"international number				
	Map complete Ge	neric Number Address Signa	als used prefixed with a "+" to user		
	portion of URI sch				
	Address Presentation res				
		d then Privacy: <b>header</b>	e (110)		
	Address Signals: "+" CC	NDC SN mapped to user po	rtion of URI scheme used		
	The P-Asserted-Identity i	is derived from the Connecte	d number as follows		
	Connected number	s derived from the confidence	d Hamber as follows		
	Nature of Address Indica	itor			
	"national (significant)				
			ocated) to Connected Number		
		hen map to user portion of U			
	"international number				
	Map complete Co	nnected Number Address Signature	gnals used prefixed with a "+" to user		
	portion of URI scheme used				
	Address Presentation res	striction indicator			
		d then Privacy: <i>header</i>			
		NDC SN mapped to user po	rtion of URI scheme used		
ISUP Parameter values	IAM: Optional forward of				
		ne Identity Request = request	red		
	ANM: Generic number				
		nected number			
		resentation restriction indicat	or = presentation restricted		
SIP Parameter values	INVITE: Supported: fro				
	200 OK: P-Asserted-Ide	•			
	Supported: fro	•	a di accomplia a m		
	UPDATE: From: <derived additional="" connected="" from="" number="" the=""> P-Asserted-Identity: <derived connected="" from="" number="" the=""></derived></derived>				
Comments	F-Asserted-ide	entity. <defived com<="" from="" th="" the=""><th>nected number&gt;</th></defived>	nected number>		
Message flows	Mg	MGCF	ISUP		
Incodege nows	<del>-</del>	→	→ IAM		
	180 Ringing	<del></del>	← ACM		
		<del>-</del>	← ANM		
	ZOU OR (IINVIIE)	•	AINIVI		
	UPDATE	<b>←</b>			
		<b>→</b>			
	200 OR (UFDATE)	Apply post test rou	ıtine		
		Apply post test rol	iune		

## 6.3.3 Communication Diversion (CDIV)

TP number	TP_403_001	Reference	7.5.4.2.1		
			table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5			
Test Purpose name	Mapping of 181 hi-targeted-to-u	uri into ACM Redirection numb	per		
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) an ACM is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:</li> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the</li> </ul>				
	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 proper="" uri;cause="any">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM ACM ←	→ INV ← 181	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/	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND F	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 esc	aped Privacy header int	o ACM Redirec	tion 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 <b>escaped Privacy header</b> in the				
ISUP Parameter values		s indicated in table 6.3.3-			
		number restriction= PRE	S_restr		
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF		Mg	
	IAM	<b>→</b>	→ IN	VITE	
	ACM	<b>←</b>	<b>←</b> 18	31 Call Is Being Forwarded	
	Apply post test routine				

TP number	TP_403_003	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6	3.3.2/5			
Test Purpose name	Mapping of 181 Privacy he	eader into ACM Redirect	ion number restriction		
Test Purpose	Ensure that on receipt of				
	The Redirection number r	estriction is set according	g the <b>Privacy header</b> as indicated in		
	table 6.3.3-1				
ISUP Parameter values	ACM: Redirection number	er restriction= PRES_rest	tr		
SIP Parameter values	181:				
	Privacy= <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any< th=""><th>proper URI;cause=any</th><th>value&gt;; index=1.1</th></sip:any<>	proper URI;cause=any	value>; index=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM -	→	→ INVITE		
	ACM	<del>-</del>	← 181 Call Is Being Forwarded		
	Apply post test routine				

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

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

TP number	TP_403_004	Reference	7.5.4.2.1		
			table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/		·		
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/5			
Test Purpose name	Mapping of 181 Priva	acy 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.			
			version Information parameter is set y as indicated in table 6.3.3-2		
ISUP Parameter values		ACM: Call Diversion Information Notification subscription options=SUBS options			
SIP Parameter values	181:  Privacy: 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	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 181 Call Is Being Forwarded		
		Apply post test routine			

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

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

TP number	TP 403 005	Reference	7.5.4.2.1	
110111001			table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	75		
Test Purpose name	Mapping of 181 escaped Priva	cy header into ACM Notification	on subscription options	
Test Purpose	Ensure that on receipt of 181 (	Call Is Being Forwarded) cont	aining an escaped Privacy	
	header field in the last hi-targe	ted-to-uri, an ACM is sent.	-	
	The Notification subscription o	ptions in the Call Diversion Inf	ormation parameter is set	
	according the escaped Privacy	header in the last History ent	ry as indicated in table 6.3.3-3	
ISUP Parameter values	<b>ACM:</b> Call Diversion Informati	on		
	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 →	→ INV	'ITE	
	ACM ←	<b>←</b> 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	Refe	erence	7.5.4.2.1		
				table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/5				
Test Purpose name	Mapping of 181 h	i-targeted-to-uri inte	o ACM Redirecting	Reason		
Test Purpose	parameter of the I	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	Redirection Call Divers	diverting	lirecting_Reason			
SIP Parameter values	,	<sip:any <sip:any="" proper="" th="" ui="" ui<=""><th>RI&gt;; index=1, RI;cause=<b>CAUSE_</b>v</th><th>/alue&gt;; index=1.1</th></sip:any>	RI>; index=1, RI;cause= <b>CAUSE_</b> v	/alue>; index=1.1		
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM → INVITE					
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine					

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

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

TP number	TP_403_007	Reference		7.5.4.2.1
				table 7.5.4.2.1.7
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.5/3 AND PIC	S 6.3.1/2 AND PICS 6.3.	2/5	
Test Purpose name	Mapping of 181 hi-targ	geted-to-uri cause parame	eter into CPG	Event indicator
Test Purpose	Ensure that on receipt	of 181 (Call Is Being For	warded) a CF	G is sent. The Event indicator
	is set to 'Redirecting_	Reason' as indicated in	able 6.3.3-5	
ISUP Parameter values	CPG: Event=Redirect	ting_Reason		
	Generic Notification	ation		
	call is diver	ting		
	Redirection nur	mber		
	Call Diversion I	nformation		
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></pre>			
Comments				
Message flows	ISUP	MGCF		Mg
	IAM	<b>→</b>	→ INV	ITE
	ACM	<b>←</b>	<b>←</b> 180	Ringing
	CPG	<b>←</b>		Call Is Being Forwarded
		Apply post to		

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			
	1=		table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/5				
Test Purpose name	Mapping of 181 hi-targeted-to-	uri into CPG Redirection	number			
Test Purpose	<ul> <li>Ensure that on receipt of 181 (Call Is Being Forwarded) a CPG is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:</li> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.</li> </ul>					
	SUT is located: Nature of	address indicator is set to	qual the country code where the billing international number '+' is sessing ss signal of the Redirection number			
ISUP Parameter values	CPG: Generic Notification call is diverting Redirection number Nature of address indicator					
	Address signal					
	Derived from the last History-Info entry					
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	IAM → INVITE				
	ACM ← 180 Ringing					
	CPG ← 181 Call Is Being Forwarded					
		Apply post test routi	ne			

TP number	TP_403_009	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Redir	ection number restriction		
Test Purpose	Ensure that on receipt of 181 (				
	The Redirection number restrict	ction is set according the e	scaped Privacy header in the		
	last History entry as indicated	n table 6.3.3-1			
ISUP Parameter values	CPG: Redirection number res	triction = PRES_restr			
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	180 Ringing		
	CPG ←	<b>←</b>	181 Call Is Being Forwarded		
	Apply post test routine				

TP number	TP_403_010	Referen	ce	7.5.4.2.1	
				table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			·	
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Pr	ivacy header into earl	y CPG Redirecti	on number restriction	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), a CPG is sent. The Redirection number restriction is set according the <b>Privacy header</b> as indicated in table 6.3.3-1.				
ISUP Parameter values		number restriction =	PRES_restr		
SIP Parameter values	181:				
	Privacy= <b>Priv-v</b>	alue			
	History-Info: <	sip:any proper URI>;	index=1,		
	<	sip:any proper URI;c	ause=any value:	>; index=1.1	
Comments					
Message flows	ISUP	MG	CF	Mg	
	IAM	<b>→</b>	<b>→</b>	INVITE	
	ACM	<b>←</b>	<b>←</b>	180 Ringing	
	CPG	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded	
	Apply post test 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 6.3.1/2 AND PICS 6.3	.2/5			
Test Purpose name	Mapping of 181 Privacy hea	der into CPG Notification s	ubscription options		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a CPG is sent.  The Notification subscription options in the Call Diversion Information parameter is set according the Privacy header in the message body as indicated in table 6.3.3-2				
ISUP Parameter values	CPG: Call Diversion Information  Notification subscription options=SUBS_options				
SIP Parameter values	181:  **Privacy: **Priv-value**  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any cause="any" proper="" uri;="" value="">; index=1.1</sip:any></sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
_	IAM → ACM ← CPG ←	→ ← ← Apply post test rout	INVITE 180 Ringing 181 Call Is Being Forwarded ine		

TP number	TP_403_012	Reference	)	7.5.4.2.1	
				table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/5			
Test Purpose name	Mapping of 181 es	caped Privacy header in	nto CPG Notificati	on subscription options	
Test Purpose	Ensure that on rece	eipt of 181 (Call Is Bein	g Forwarded) con	taining an escaped Privacy	
		ast hi-targeted-to-uri, a			
	The Notification su	bscription options in the	e Call Diversion In	formation parameter is set	
	according the esca	ped Privacy header in t	he last History en	try as indicated in table 6.3.3-3	
ISUP Parameter values	CPG: Call Diversion	on Information			
	Notificat	ion 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	<b>→</b>	→ IN\	/ITE	
	ACM	<b>←</b>	<b>←</b> 180	O Ringing	
	CPG	<b>←</b>	<b>←</b> 18°	1 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 6.3.1/2 AN	D PICS 6.3.2/5				
Test Purpose name	Mapping of 181 l	hi-targeted-to-ui	ri into CPG Redirecting	Reason		
Test Purpose	entry containing	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 Redirecting reason in the Call Diversion Information parameter is set as indicated in table 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	, , , , , , , , , , , , , , , , , , , ,					
Message flows	ISUP MGCF Mg					
	IAM ACM	<b>→</b> ←	<b>→</b>	INVITE 180 Ringing		
	CPG					

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 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into ACM Redirection num	ber		
Test Purpose	<ul> <li>Ensure that on receipt of 180 (Ringing) an ACM (subscriber free) is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number:</li> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.</li> <li>If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is</li> </ul>				
ISUP Parameter values	removed from the digit string and sent in the Address signal of the Redirection number  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 proper="" uri="">; index=1,</sip:any>				
Comments					
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 6.3.1/2 AND PICS 6.3.2	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	=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 ←	<b>←</b> 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 6.3.1/2 AND PICS 6.3.2/	5				
Test Purpose name	Mapping of 180 Privacy heade	r into ACM Redirection numbe	r restriction			
Test Purpose	Ensure that on receipt of 180 (					
	The Redirection number restric	ction is set according the Priva	cy 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= <b>Priv-value</b>					
	History-Info: <sip:any prop<="" th=""><th></th><th></th></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	e	7.5.4.2.1		
				table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/			100000		
Selection criteria	PICS 6.3.1/2 AND	D PICS 6.3.2/5				
Test Purpose name	Mapping of 180 F	Privacy header into ACM	Notification su	ubscription options		
Test Purpose		Ensure that on receipt of 180 (Ringing) containing a Privacy header, an ACM (subscriber				
	free) is sent.					
				on Information parameter is set		
			sage body as	indicated in table 6.3.3-2		
ISUP Parameter values	ACM: Backward call indicator					
	Called	party status=subscribe	free			
	Generic N	otification				
	call is	diverting				
	Call Divers	sion Information				
	Notifica	ation subscription optior	s=SUBS_opti	ions		
SIP Parameter values	180:					
	Privacy: <b>Priv-</b>	value				
	History-Info:	<sip:any proper="" uri="">;</sip:any>	ndex=1,			
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>					
Comments						
Message flows	ISUP MGCF Mg					
	IAM → INVITE					
	ACM	<b>←</b>	<b>←</b>	180 Ringing		
Apply post test routine				5 5		

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 6.3.1/2 AND PICS 6	.3.2/5			
Test Purpose name	Mapping of 181 escaped F	Privacy header into ACM Not	ification subscription options		
Test Purpose			escaped Privacy header field in the		
		CM (subscriber free) is sent			
			ion Information parameter is set		
		ivacy header in the last His	tory entry as indicated in		
	table 6.3.3-3				
ISUP Parameter values	ACM: Backward call indicator				
	Called party sta	tus=subscriber free			
	Generic Notification	1			
	call is diverting				
	Call Diversion Infor				
		scription options= <b>SUBS_op</b> t	tions		
SIP Parameter values	180:				
		proper URI>; index=1,			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM → INVITE				
	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/				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/5			
Test Purpose name	Mapping of 180 hi-	-targeted-to-uri into ACM R	edirecting Reason		
Test Purpose	Ensure that on rec	eipt of 180 (Ringing) an AC	CM (subscriber free) is sent. The last		
	History-Info entry	containing a cause parame	ter is mapped into the Redirecting reason in		
	the Call Diversion	Information parameter is se	et as indicated in table 6.3.3-4		
ISUP Parameter values	ACM: Backward	call indicator			
	Called p	party status=subscriber free			
	call is d	iverting			
	Redirection number				
	Call Diversion Information				
	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri;cause="CAUSE_value">; index=1,</sip:any>				
		<sip:any proper="" uri="">; inde:</sip:any>	x=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	← 180 Ringing		
	Apply post test routine				

TP number	TP_403_020	Reference	7.5.4.2.1			
			table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5				
Test Purpose name	Mapping of 180 hi-targeted-to-	uri into CPG Redirection r	number			
Test Purpose	Ensure that on receipt of 180 (Ringing) a CPG Alerting is sent. The last History-Info entry					
	containing a cause parameter i					
	Nature of address indicate country code is removed for Redirection number.	<ul> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:         Nature of address indicator is set to 'national (significant) number', '+' and the             country code is removed from the digit string and sent in the Address signal of the             Redirection number.     </li> </ul>				
			ual the country code where the			
			'international number' '+' is			
10115		ng and sent in the Addres	s 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 proper="" uri;cause="any">; index=1.1</sip:any></sip:any>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM →	→	INVITE			
	ACM <b>←</b>	<b>←</b>	181 Call Is Being Forwarded			
	CPG ← 180 Ringing					
	Apply post test routine					

TP number	TP_403_021	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/	·			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5			
Test Purpose name	Mapping of 180 escar	ped Privacy header into CP	G Redirection number restriction		
Test Purpose		t of 180 (Ringing), a CPG A			
	The Redirection numb	per restriction is set accord	ng the escaped Privacy header in the		
	last History entry as ir	ndicated in table 6.3.3-1			
ISUP Parameter values	CPG: Event=Alerting				
	Redirection nu	mber restriction= PRES_re	estr		
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any?&lt;i">Privacy=<b>Priv-value</b>&gt;; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	CPG	←	← 180 Ringing		
	Apply post test routine				

TP number	TP_403_022	Reference	7.5.4.2.1		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5			
Test Purpose name	Mapping of 180 Privacy header	rinto CPG Redirection 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= <b>Priv-value</b>				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	ACM ←	<b>←</b>	181 Call Is Being Forwarded		
	CPG ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP 403 023	Refe	rence	7.5.4.2.1		
				table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	•				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/5				
Test Purpose name	Mapping of 180 P	rivacy header into (	CPG Notification su	ubscription options		
Test Purpose	Ensure that on red	ceipt of 180 (Ringin	g) containing a Pri	vacy header, a CPG Alerting is		
	sent.					
				n Information parameter is set		
	according the Priv	vacy header in the	message body as	indicated in table 6.3.3-2		
ISUP Parameter values	CPG: Event=Ale	CPG: Event=Alerting				
	Generic No	otification				
		diverting				
		Call Diversion Information				
	Notification subscription options=SUBS_options					
SIP Parameter values	180:					
	Privacy: <b>Priv-value</b>					
	History-Info:	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
		<sip:any proper="" th="" uf<=""><th>RI;cause=any value</th><th>&gt;; index=1.1</th></sip:any>	RI;cause=any value	>; index=1.1		
Comments						
Message flows	ISUP		MGCF	Mg		
	IAM	<b>→</b>	<b>→</b>	INVITE		
	ACM	<b>←</b>	<b>←</b>	181 Call Is Being Forwarded		
	CPG	<b>←</b>	<b>←</b>	180 Ringing		
		Apply post test routine				

TP number	TP 403 024	Reference	7.5.4.2.1			
			table 7.5.4.2.1.4			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5				
Test Purpose name	Mapping of 181 escaped Priva	cy header into CPG Notifica	ation subscription options			
Test Purpose			aped Privacy header field in the			
	last hi-targeted-to-uri, a CPG A					
	The Notification subscription of					
	according the escaped Privac	<b>y header</b> in the last History	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 →		NVITE			
	ACM ←		81 Call Is Being Forwarded			
	CPG ←		80 Ringing			
	Apply post test routine					

TP number	TP_403_025	Reference	7.5.4.2.1			
			table 7.5.4.2.1.4			
TSS reference	IMS-SS/CDIV/	·				
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5				
Test Purpose name	Mapping of 180 h	ni-targeted-to-uri into CPG R	Redirecting Reason			
Test Purpose	Ensure that on re	eceipt of 180 (Ringing) a CP	G Alerting is sent. The last History-Info entry			
	containing a caus	se parameter is mapped into	the Redirecting reason in the Call Diversion			
	Information para	meter is set as indicated in t	able 6.3.3-4			
ISUP Parameter values	CPG: Event=Ale	erting				
	Generic N	lotification				
		diverting				
	Redirection	on number				
	Call Diversion Information					
	Redire	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:					
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<pre><sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any></pre>					
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	<ul> <li>181 Call Is Being Forwarded</li> </ul>			
	CPG	<b>←</b>	← 180 Ringing			
	Apply post test routine					

TP number	TP_403_026	Reference	7.5.4.2.1			
			table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/	•	•			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5				
Test Purpose name	Mapping of 200 OK hi-targeted	l-to-uri into ANM Redirecti	on number			
Test Purpose	Ensure that on receipt of 200 (containing a cause parameter					
	Nature of address indicate	<ul> <li>If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:         Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the     </li> </ul>				
	SUT is located: Nature of	address indicator is set to	ual the country code where the 'international number' '+' is s 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>per URI;cause=any value</th><th>&gt;; index=1.1</th></sip:any>	per URI;cause=any value	>; index=1.1			
Comments	10115					
Message flows	ISUP	MGCF	Mg			
	IAM →	<b>→</b>	INVITE			
	ACM ←	<b>←</b>	181 Call Is Being Forwarded			
	CPG ←	<del>-</del>	180 Ringing			
	ANM ←	<b>←</b>	200 OK INVITE			
		<b>→</b>	ACK			
	Apply post test routine					

TP number	TP 403 027	Reference	7.5.4.2.1		
1101111001	11 _ 100_021	110.0.0.0	table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/		,		
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/5			
Test Purpose name	Mapping of 200 esca	ped Privacy header into AN	IM Redirection number restriction		
Test Purpose		ot of 200 (INVITE), an ANM			
	The Redirection num	ber restriction is set accord	ing the <b>escaped Privacy header</b> in the		
	last History entry as i	ndicated in table 6.3.3-1			
ISUP Parameter values	ANM: Redirection number restriction= PRES_restr				
SIP Parameter values	200 OK:				
	History-Info: <si< th=""><th>p:any proper URI&gt;; index=1</th><th>,</th></si<>	p:any proper URI>; index=1	,		
	<si< th=""><th>p:any proper URI;cause=ar</th><th>y value? Privacy=Priv-value&gt;; index=1.1</th></si<>	p:any proper URI;cause=ar	y value? Privacy=Priv-value>; index=1.1		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM	<b>→</b>	→ INVITE		
	ACM	←	<ul> <li>181 Call Is Being Forwarded</li> </ul>		
	CPG	<b>←</b>	← 180 Ringing		
	ANM	<b>←</b>	← 200 OK INVITE		
			→ ACK		
	Apply post 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 6.3.1/2 AND PI	CS 6.3.2/5				
Test Purpose name	Mapping of 200 Priva	cy header into ANM Redired	ction number restriction			
Test Purpose		ot of 200 OK (INVITE), an AN				
	The Redirection num	ber restriction is set accordir	ng the <b>Privacy header</b> as indicated in			
	table 6.3.3-1					
ISUP Parameter values	ANM: Redirection nu	umber restriction= PRES_res	str			
SIP Parameter values	200 OK:					
	Privacy= <b>Priv-val</b> t	ue				
	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="">; index=1.1</sip:any></pre></th></si<>	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>				
Comments						
Message flows	ISUP	MGCF	Mg			
	IAM	<b>→</b>	→ INVITE			
	ACM	<b>←</b>	← 181 Call Is Being Forwarded			
	CPG	<b>←</b>	← 180 Ringing			
	ANM	<b>←</b>	€ 200 OK INVITE			
		-	→ ACK			
	Apply post test routine					

TP number	TP_403_029	Reference	7.5.4.2.1		
			table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/5			
Test Purpose name	Mapping of 200 OK hi-targe	eted-to-uri into CON Redirec	tion number		
Test Purpose	a cause parameter is mapp	Ensure that on receipt of 200 OK (INVITE) a CON is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number:			
	If CC of the hi-targeted-to-uri is equal the country code where the SUT is located:     Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number.				
	SUT is located: Nature	of address indicator is set to	qual the country code where the billing 'international number' '+' is so signal of the Redirection number		
ISUP Parameter values	CON: Redirection number				
	Nature of address indicator				
	Address signal				
	Derived from the last History-Info entry				
SIP Parameter values	200 OK:				
	History-Info: <sip:any proper="" uri="">; index=1, <sip:any index="1.1&lt;/th" proper="" uri;cause="any" value;=""></sip:any></sip:any>				
Comments					
Message flows	ISUP MGCF Mg				
	IAM →	<b>→</b>	INVITE		
	CON ←	<b>←</b>	200 OK INVITE		
		<b>→</b>	ACK		
	Apply post test 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 6.3.1/2 AND PICS 6.3.2	<sup>′</sup> 5			
Test Purpose name	Mapping of 200 escaped Priva	cy header into CON Redi	rection number restriction		
Test Purpose	Ensure that on receipt of 200				
			escaped Privacy header in the		
	last History entry as indicated	in table 6.3.3-1			
ISUP Parameter values	CON: Redirection number res	striction= PRES_restr			
SIP Parameter values	200 OK:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>				
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM →	<b>→</b>	INVITE		
	CON ←	<b>←</b>	200 OK INVITE		
		<b>→</b>	ACK		
	Apply post test routine				

TP number	TP 403 031	Reference	7.5.4.2.1
			table 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	Mapping of 200 Privacy heade	r into CON Redirection numb	er restriction
Test Purpose	Ensure that on receipt of 200 (		
	The Redirection number restric	ction is set according the <b>Priv</b>	acy header as indicated in
	table 6.3.3-1		
ISUP Parameter values	CON: Redirection number restriction= PRES_restr		
SIP Parameter values	200 OK:		
	Privacy= <b>Priv-value</b>		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM →	→ IN	/ITE
	CON ←	← 20	O OK INVITE
	→ ACK		
	Apply post test routine		

TP number	TP_403_032	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5	
Test Purpose name	Mapping of Redirecting numbe	r Address signals into History-	Info header URI
Test Purpose	Ensure that on receipt of an IAM containing a Redirecting number parameter, an Original called number parameter and a Redirection Information parameter, an INVITE request is		
	sent and a History-Info header Value of Redirecting number		
	indicated in table 6.3.3-6	is mapped from the Redirectii	ig number Address Signals as
ISUP Parameter values			
150F Parameter values	IAM: Redirecting number		
	Nature of Address: <b>NoA_value</b>		
	Address Signals <any appropriate="" value=""> Redirection Information</any>		
	Redirection information Redirection counters		
		=2	
SIP Parameter values	Original called number		
SIF Farailleter values	History-Info:		
	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>		
	<sip:value number;cause="any" of="" redirecting="">; index=1.1</sip:value>		
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>		
Comments	-1 - 71 - 71 - 71 - 71 - 71 - 71 - 71 -		
Message flows	ISUP MGCF Mg		
	IAM →	→ INV	ITE
	Apply post test routine		

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

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

TP number	TP_403_033	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	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 presentation restricted indicator: APRI_value		
	Redirection Information		
	Redirection counter=2		
	Original called number		
SIP Parameter values	INVITE:		
	History-Info:		
	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>		
	<pre><sip: any="" proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1</sip:></pre>		
	<pre><sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:></pre>		
Comments		· · · · · · · · · · · · · · · · · · ·	
Message flows	ISUP MGCF Mg		
	IAM →	→ INV	ITE
	Apply post test routine		

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

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

TP number	TP_403_034	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	Mapping of Redirection Inform	ation Redirecting indicator	
Test Purpose	Ensure that on receipt of an IA	M containing a Redirecting nu	ımber, an Original called
	number parameter and a Redi	rection Information parameter	, an INVITE request is sent and
	a History-Info header is preser	nt. A Privacy header is escape	d in the second last
	hi-targeted-to-uri and the PRIV	_value is mapped from the R	edirecting indicator of the
	Redirection Information as indicated in table 6.2.5-21		
ISUP Parameter values	IAM: Redirection Information		
	Redirection counter=2		
	Redirecting indicator=RDIND_value		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<sip: any="" proper="" uri;cause="any?Privacy=&lt;b">PRIV_value&gt;; index=1.1</sip:>		
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>		
Comments			
Message flows	ISUP	MGCF	Mg
	IAM → INVITE		
	Apply post test routine		

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

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

TP number	TP_403_035	Reference	7.5.4.2.2	
			table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/5		
Test Purpose name	Mapping of Redirection	on Information Redirection cour	nter	
Test Purpose	number parameter ar	Ensure that on receipt of an IAM containing a Redirecting number, an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a the hi-targeted-to-uri and the index parameter of the Redirection counter as indicated in table 6.3.3-9		
ISUP Parameter values	IAM: Redirection Information Redirection counter=RDCONT_value			
SIP Parameter values	INVITE: History-Info: HI-ENTRY_values			
Comments	·			
Message flows	ISUP	MGCF	Mg	
	IAM → INVITE			
	Apply post test routine			

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

	RDCONT_value	HI-ENTRY_values	
VA_01	1	<sip:represents called="" number="" original="" the="">; index=1,</sip:represents>	
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1</sip:>	
VA_02	2	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	
		<sip: number;cause="any" redirecting="" represents="" the="">; index=1.1,</sip:>	
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1</sip:>	
VA_03	3	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	
		<sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:>	
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1,</sip:>	
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1</sip:>	
VA_04	4	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>	
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:>	
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1,</sip:>	
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1</sip:>	
VA_05	5	<sip: called="" number="" original="" represents="" the="">; index=1,</sip:>	
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>	
		<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 6.3.1/2 AND PICS 6	6.3.2/5		
Test Purpose name	Mapping of Redirection In	formation Original redirect	ion reason	
Test Purpose	number and a Redirection	Ensure that on receipt of an IAM containing a Redirecting number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Original		
	redirection reason indicator <b>'unknown'</b> of the Redirection Information is mapped into the cause parameter <b>'404'</b> of the second hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-10			
ISUP Parameter values	IAM: Redirection Information			
	Redirection counter=2 Original redirection reason=unknown			
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="404">; index=1.1, <sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:></sip:any></sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

Table 6.3.3-10: Void

TP number	TP_403_037	Reference	7.5.4.2.2
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/5	
Test Purpose name	Mapping of Redirection Infor		
Test Purpose	Ensure that on receipt of an IAM containing a Redirection number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Redirecting reason indicator <b>REAS_value</b> of the Redirection Information is mapped into the cause parameter <b>Cause_value</b> of the last hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-11		
ISUP Parameter values	IAM: Redirection Information Redirection counter=2 Redirecting reason = REAS value		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
Comments			
Message flows	ISUP	MGCF  → INV	<b>Mg</b> /ITE
	Apply post test routine		

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

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

TP number	TP_403_038	Reference	7.5.4.2.2	
			table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of Called party 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 6.3.3-12			
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>			
		per URI;cause=any>; index=1		
	<sip:value called="" number;cause="any" of="" party="">; index=1.1.1</sip:value>			
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 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of Original called num	ber Address Signals		
Test Purpose	Ensure that on receipt of an IA			
	Redirection Information parame			
	present. The value of the first h			
	mapped from the Original calle	d number Address Signals as	indicated in table 6.3.3-13	
ISUP Parameter values	IAM: Original called number			
	Nature of Address: <b>NoA_value</b>			
	Address Signals < Digits>			
SIP Parameter values	INVITE:			
		f Original called number>; i		
	<sip:any prop<="" th=""><th>per URI;cause=any&gt;; index=1</th><th>.1</th></sip:any>	per URI;cause=any>; index=1	.1	
Comments				
Message flows	ISUP MGCF Mg			
	IAM → INVITE			
	Apply post test routine			

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

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

TP number	TP_403_040	Reference	7.5.4.2.2	
			table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Original called num	nber Address presentation re	stricted indicator	
Test Purpose	Ensure that on receipt of an IA			
	INVITE request is sent and a H			
	the first hi-targeted-to-uri and t			
	restricted indicator of the Origin	nal called number as indicate	ed in table 6.3.3-14	
ISUP Parameter values	IAM: Original called number			
	Address presentation restricted indicator: APRI_value			
	Address Signals <any appropriate="" value=""></any>			
SIP Parameter values	INVITE:			
	History-Info: <sip:any proper="" uri?privacy="&lt;b">PRIV_value&gt;; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
Comments				
Message flows	ISUP MGCF Mg			
	IAM →	<b>→</b> IN	IVITE	
	Apply post test routine			

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

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

TP number	TP 403 041	Refe	erence	7.5.4.3
				table 7.5.4.3.2
TSS reference	IMS-SS/CDIV/			•
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5		
Test Purpose name	Second latest His	story-Info header fie	eld entry mapped into R	edirecting number Nature of
	address indicator	r		
Test Purpose				istory-Info header, an IAM is
				nd a Redirection information
				the Redirecting number is
				entry containing a cause-param
	URI parameter a	s indicated in table	6.3.3-15	
ISUP Parameter values	IAM: Redirecting number			
	Nature of address indicator=NoA_value			
SIP Parameter values	INVITE:			
	History-Info:	<sip:any proper="" th="" u<=""><th>RI&gt;; index=1,</th><th></th></sip:any>	RI>; index=1,	
		<sip:second last<="" th=""><th>entry URI;cause=any&gt;</th><th>; index=1.1,</th></sip:second>	entry URI;cause=any>	; index=1.1,
		<sip:any proper="" th="" u<=""><th>RI;cause=any&gt;; index=</th><th>1.1.1</th></sip:any>	RI;cause=any>; index=	1.1.1
Comments				
Message flows	Mg MGCF ISUP			
	INVITE → IAM			
	100 Trying	<b>←</b>		
	Apply post test routine			

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

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

TP number	TP_403_042	Refe	rence	7.5.4.3
				table 7.5.4.3.2
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AN	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Second latest His signal	story-Info header fie	ld entry is mapp	ed into Redirecting number Address
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address signal</b> of the Redirecting number is mapped from the hi-targeted-to-uri in hi-entry before last hi-entry containing a cause-param URI parameter in the format +'CC+NDC+SN' as indicated in table 6.3.3-16			
ISUP Parameter values		IAM: Redirecting number  Address signal derived from the second last Hist-entry		
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
Comments				
Message flows	Mg INVITE 100 Trying	<b>→</b> ←	MGCF	ISUP → IAM utine

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

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

TP number	TP_403_043	Reference	7.5.4.3	
			table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Second latest History-Info head number Address presentation in		mapped into Redirecting	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Redirecting number is mapped from the escaped Privacy header of the second latest History-Info header field entry containing a cause parameter as indicated in table 6.3.3-17			
ISUP Parameter values	IAM: Redirecting number Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,     <sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments				
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM	
	Apply post test routine			

TP number	TP_403_044	Reference	7.5.4.3	
			table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5		
Test Purpose name	Privacy header is mapped into indicator	Redirecting number Address p	presentation restricted	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Redirecting number is mapped from the Privacy header of the received INVITE request as indicated in table 6.3.3-17.			
ISUP Parameter values	IAM: Redirecting number	IAM: Redirecting number Address presentation restricted indicator=APRI value		
SIP Parameter values	INVITE:			
	Privacy: PRIV_value History-Info:	· · · · · · · · · · · · · · · · · · ·		
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

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

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

TP number	TP 403 045	Reference	7.5.4.3		
			table 7.5.4.3.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Escaped Privacy header is mapped into Redirection information Redirecting indicator				
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting indicator</b> of the Redirection information is mapped from the escaped Privacy header of the second last History-Info header field entry and last History-Info header field in the received INVITE request as indicated in table 6.3.3-18				
ISUP Parameter values	IAM: Redirection information Redirecting indicator=RDIND_value				
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,     <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1.1</sip:any></sip:any></sip:any>				
Comments					
Message flows	Mg INVITE 100 Trying	MGCF  →  ←  Apply post test re	ISUP → IAM		

TP number	TP 403 046	Reference	7.5.4.3		
			table 7.5.4.3.3		
TSS reference	IMS-SS/CDIV/		table 1.6. no.e		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
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 <b>Redirecting indicator</b> of the Redirection information is mapped from the Privacy header in the received INVITE request as indicated in table 6.3.3-18				
ISUP Parameter values	IAM: Redirection information Redirecting indicator=RDIND_value				
SIP Parameter values	INVITE:  Privacy: PRIV_value  History-Info: <sip:any proper="" uri="">; index=1,  <sip:any proper="" uri;cause="any">; index=1.1,  <sip:any proper="" uri;cause="any">; index=1.1.1</sip:any></sip:any></sip:any>				
Comments	Csip.ariy proper orti,cat	dse=arry>, index=1.1.1			
Message flows	Mg	MGCF	ISUP		
	INVITE → 100 Trying ←	<b>→</b>	IAM		
	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/	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5		
Test Purpose name	'cause' parameter is mapped ir	nto Redirection information Re	directing reason	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Redirecting reason</b> of the Redirection information is mapped from the cause parameter of the latest History-Info header field entry containing a cause parameter in the received INVITE request as indicated in table 6.3.3-19			
ISUP Parameter values	IAM: Redirection information Original redirection reason=unknown/not available Redirecting reason=REAS_value			
SIP Parameter values	INVITE:  History-Info: <sip:any proper="" uri="">; index=1,     <sip:any proper="" uri;cause="any">; index=1.1,     <sip:any cause="Cause_value" proper="" uri;="">; index=1.1.1</sip:any></sip:any></sip:any>			
Comments	The state of the s			
Message flows	Mg INVITE → 100 Trying ←		ISUP IAM	
Apply post test routine				

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

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

TP number	TP_403_048	Reference	7.5.4.3
			table 7.5.4.3.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	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 <b>Redirection counter</b> of the Redirection information is mapped from the hi-index of the last History-Info header field entry in the received INVITE request as indicated in table 6.3.3-20. The number of dots in the hi-index value is equal to the value of the Redirection counter		
ISUP Parameter values	IAM: Redirection information  Redirection counter=RDCONT_value		
SIP Parameter values	INVITE: History-Info: ENTRY_value	Jes	
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
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1</sip:represents></pre>	
VA_02	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	2
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1</sip:represents></pre>	
VA_03	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	3
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1</sip:represents></pre>	
VA_04	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	4
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<sip:any proper="" uri;cause="any">; index=1.1.1,</sip:any>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1.1,</sip:represents></pre>	
	<sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1.1</sip:represents>	
VA_05	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>	5
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>	
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1,</sip:any></pre>	
	<pre><sip:any proper="" uri;cause="any">; index=1.1.1.1,</sip:any></pre>	
	<pre><sip:represents number;cause="any" redirecting="" the="">; index=1.1.1.1.1,</sip:represents></pre>	
	<pre><sip:represents called="" number;cause="any" party="" the="">; index=1.1.1.1.1.1</sip:represents></pre>	

TP number	TP_403_049	Reference	7.5.4.3
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	First History-Info header field entry is mapped into Original called number Nature of		
	address indicator	-	
Test Purpose	Ensure that on receipt of an IN		
	sent and a Redirecting number		
	parameter is present. The Natu		
	from the first History-Info heade	er field entry in the format +'Co	C+NDC+SN' as indicated in
	table 6.3.3-21		
ISUP Parameter values IAM: Original called number			
	Numbering Plan Ind	cator=ISDN (Telephony) num	bering plan
		(Recommendation E.	<i>164 [</i> i.1 <i>])</i>
	Nature of address in	dicator= <b>NoA_value</b>	
SIP Parameter values	INVITE:		
	History-Info:		
	<pre><sip:first entry="" uri="">; index=1,</sip:first></pre>		
	<sip:any proper="" th="" uri;cau<=""><th>use=any&gt;; index=1.1</th><th></th></sip:any>	use=any>; index=1.1	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	100 Trying ←		
		Apply post test routine	

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

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

TP number	TP 403 050	Reference	7.5.4.3
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/	•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5	
Test Purpose name	First History-Info header field	entry is mapped into Original c	alled Address signal
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address signal</b> of the Original called number is mapped from the first History-Info header field entry in the format <b>+'CC+NDC+SN'</b> as indicated in table 6.3.3-22		
ISUP Parameter values	IAM: Original called  Numbering Plan Indicator=ISDN (Telephony) numbering plan  (Recommendation E.164 [i.1])  Address signal derived from the first Hist-entry		
SIP Parameter values	INVITE:  History-Info: <sip:first entry="" uri="">; index=1,  <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:first>		
Comments		, , , , , , , , , , , , , , , , , , ,	
Message flows	Mg INVITE → 100 Trying ←	<del>-</del>	ISUP IAM

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

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

TP number	TP_403_051	Reference	7.5.4.3
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	.2/5	
Test Purpose name	First History-Info header field entry escaped Privacy header is mapped into Original called number Address presentation restricted indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Original called number is mapped from the escaped Privacy header of the first History-Info header field entry as indicated in table 6.3.3-23		
ISUP Parameter values	IAM: Original called  Address presentation restricted indicator=APRI value		
SIP Parameter values	INVITE: History-Info: <pre></pre>		
Comments		•	
Message flows	Mg INVITE 100 Trying	MGCF → ←	ISUP → IAM
	Apply post test routine		

TP number	TP_403_052	Reference	7.5.4.3
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5	
Test Purpose name	Privacy header is mapped into Original called number Address presentation restricted indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The <b>Address presentation restricted indicator</b> of the Original called number is mapped from the Privacy header of the received INVITE request as indicated in table 6.3.3-23		
ISUP Parameter values	IAM: Original called		
	Address presentation restricted indicator= <b>APRI_value</b>		
SIP Parameter values	INVITE:  Privacy: PRIV_value  History-Info: <sip:first entry="" uri="">; index=1,  <sip:any proper="" uri;cause="any">; index=1.1</sip:any></sip:first>		
Comments			
Message flows	Mg MGCF ISUP		ISUP
INVITE → IAM		IAM	
100 Trying ←			
	Apply post test routine		

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

	PRIV_value	APRI_value
VA_01	history	presentation restricted
VA_02	session	presentation restricted
VA_03	header	presentation restricted
VA_04	none	presentation allowed
VA 05	Header absent	presentation allowed

TP number	TP_403_053	Reference	7.5.4.3	
			table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5		
Test Purpose name	Mapping of ACM Redirection n	umber into 181 (Being forward	led) History-Info header	
Test Purpose	present as an indication a call the Redirection number is ma	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent.  The Redirection number is mapped into the hi-targeted-to-uri in a History-Info header		
ISUP Parameter values	containing one hi-entry in the s <b>ACM:</b> Backward call indicator	ent 181 as indicated in table 6	.3.3-24	
	Address signal <b>Digi</b>	I is diverting on ndicator= <b>NOA_value</b>		
SIP Parameter values	181:	IST_URI;cause=any>; index=	1	
Comments	Tilstory-IIIIo. sip. LAST_II	151_0KI,cause=arry>, iriuex=	I	
Message flows	Mg	MGCF	ISUP	
message nows	INVITE → 181 Being forwarded ←	<b>→</b>	IAM ACM	

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 6.3.1/2 AND PICS 6.3.2/9	5	
Test Purpose name	Mapping of ACM Redirecting re parameter	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 <b>cause parameter</b> of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25		
ISUP Parameter values	ACM: Backward call indicator Called party statue= Generic notification=cal Redirection number Call diversion informatic Redirecting reason =	l is diverting on	
SIP Parameter values	181: History-Info: sip: LAST_H	IST_URI;cause=Cause_value	e>; index=1
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE →	<b>→</b>	IAM
	181 Being forwarded ←	<b>←</b>	ACM
		Apply post test routine	

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

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

TP number	TP 403 055	Reference	7.5.4.3	
Tr Humber	11 _403_033	Kelefelice	table 7.5.4.3.8	
T00 (			table 7.5.4.3.6	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/5		
Test Purpose name	Mapping of ACM Notifica	tion subscription options no	o 181 (Being forwarded) is sent	
Test Purpose	Ensure that on receipt of	an ACM a Redirection num	nber and the Call diversion parameter is	
	present as an indication a	a call diversion occurred, if	the Call diversion information	
			on not allowed no 181 (Being	
	forwarded) is sent		, 3	
ISUP Parameter values	ACM:			
	Generic notification	Generic notification=call is diverting		
	Redirection number			
	Call diversion information			
	Notification su	Notification subscription options=presentation not allowed		
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
_	INVITE	→	→ IAM	
	181 Being forwarded	<b>←</b>	<b>←</b> ACM	
	Apply post test routine			

TP number	TP_403_056	Reference	7.5.4.3	
			table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5		
Test Purpose name	Mapping of ACM Notification so Privacy header	ubscription options into 181 (Be	eing forwarded) escaped	
Test Purpose	Ensure that on receipt of an ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Notification subscription options is mapped into the escaped Privacy header of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-26			
ISUP Parameter values	ACM: Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=NSO value			
SIP Parameter values	181:	IST_URI;cause=any?Privacy=	PRIV_value>; index=1	
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE ->	<del>-</del>	IAM	
	181 Being forwarded	<del>=</del>	ACM	
		Apply post test routine		

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

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

TP number	TP_403_057	Reference	7.5.4.3	
			table 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of CPG Redired	ction number into 181 (Bei	ng forwarded) History-Info header	
Test Purpose	number and the Call dive	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Redirection number is mapped into the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-24		
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Call diversion information Redirection number Nature of address indicator=NOA_value Address signal Digits			
SIP Parameter values	181: History-Info: <sip:last_hist_uri;cause=any>; index=1</sip:last_hist_uri;cause=any>			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE	<b>→</b>	→ IAM	
	180 Ringing	<b>←</b>	← ACM	
	181 Being forwarded	<b>←</b>	← CPG	
	Apply post test routine			

TP number	TP_403_058	Reference	7.5.4.3
			table 7.5.4.3.9
TSS reference	IMS-SS/CDIV/	·	·
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5	
Test Purpose name	Mapping of CPG Redirecting parameter	reason into 181 (Being forward	ed) History-Info header cause
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The Call diversion information Redirecting reason is mapped into the <b>cause parameter</b> of the last hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25		
ISUP Parameter values	CPG: Event=Progress Generic notification=c Redirection number Call diversion informa Redirecting reasor	tion	
SIP Parameter values	181: History-Info:	lirection number in ACM;cause=	-Cause_value>; index=1
Comments			
Message flows	180 Ringing	MGCF  → ← ← Apply post test routine	ISUP IAM ACM CPG

TP number	TP_403_059	Reference	7.5.4.3	
			table 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/	<u> </u>	•	
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/5		
Test Purpose name	Mapping of CPG Notific forwarded) is sent	cation subscription option	presentation not allowed no 181 (Being	
Test Purpose	number and the Call divoccurred, 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	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=presentation not allowed			
SIP Parameter values				
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE 180 Ringing	<b>→</b> ←	→ IAM ← ACM ← CPG	
		Apply post tes	st routine	

TP number	TP_403_060	Reference	7.5.4.3		
			table 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	<sup>′</sup> 5			
Test Purpose name	Mapping of CPG Notification s Privacy header	ubscription options into 181 (B	seing forwarded) escaped		
Tost Burnoso		C the Event indicator is get to	'Drograss' a Radirection		
Test Purpose	Ensure that on receipt of a CP number and the Call diversion				
	occurred, a 181 (Being forward				
	subscription options is mapped				
	a History-Info header in the se				
ISUP Parameter values	CPG: Event=Progress	Tit 101 as indicated in table 0.5	5.5-20		
loor rarameter values	Generic notification=ca	ll is diverting			
	Redirection number	ii is diverting			
	Call diversion information				
	Notification subscription options=NSO_value				
SIP Parameter values	181:				
		per URI;cause=any?Privacy= <b>F</b>	PRIV_value >; index=1		
Comments		,			
Message flows	Mg MGCF ISUP				
	INVITE -	<b>→</b>	IAM		
	180 Ringing ←	· <b>←</b>	ACM		
	181 Being forwarded ←	• •	CPG		
	Apply post test routine				

TP number	TP_403_061	Reference	7.5.4.3	
			table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5		
Test Purpose name	Mapping of a CPG Alerting Re-	direction number into 180 (Rin	ging) History-Info header	
	Redirecting reason is mapped	into the cause parameter		
Test Purpose			'Alerting' a Redirection number	
	is present, a 180 (Ringing) is s			
	mapped into the hi-targeted-to-			
	indicated in table 6.3.3-24 and	•	mapped from a previous	
	received Redirecting reason as			
ISUP Parameter values	ACM: Call diversion information	• • •		
	Redirecting reason :	=REAS_value		
	Redirection number			
	CPG: Event indicator=Alerting			
	Redirection number			
	Nature of address indicator=NOA_value			
CID Developed	Address signal <b>Digi</b>	IS		
SIP Parameter values	180:			
	History-Info:	irection number in CDC.	oo Cougo value Linday 1	
Comments	<sip.derived from="" red<="" th=""><th>irection number in CPG;caus</th><th>se=Cause_value&gt;, index=1</th></sip.derived>	irection number in CPG;caus	se=Cause_value>, index=1	
• • • • • • • • • • • • • • • • • • • •	NOOF JOUR			
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 6.3.1/2 AND PICS 6.3.2/5						
Test Purpose name	Mapping of CPG Alerting Redirect	on Number Restriction into 180	0 (Ringing) Privacy header				
Test Purpose	Ensure that on receipt of a CPG th	e Event indicator is set to 'Aler	ting' a Redirection Number				
	Restriction parameter is present, a						
	parameter value is mapped into the	e Privacy header in the sent 18	30 as indicated in				
	table 6.3.3-27						
ISUP Parameter	ACM: Backward call indicator						
values	Called party status=no i	ndication					
	Generic notification=call is	diverting					
	Call diversion information	Call diversion information					
	Redirection number	Redirection number					
	CPG: Event indicator=Alerting						
	Redirection Number Restriction=PRES_restr						
SIP Parameter values	180:						
	Privacy= <b>PRIV_value</b>						
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE →	<b>→</b>	IAM				
	181 Being forwarded ←	<b>←</b>	ACM				
	180 Ringing ← ← CPG						
	Apply post test routine						

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

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

TP number	TP_403_063	Reference	7.5.4.3				
			table 7.5.4.3.8				
TSS reference	IMS-SS/CDIV/						
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5					
Test Purpose name	Mapping of ANM Redirection r	•	fo header Redirecting reason				
	is mapped into the cause para						
Test Purpose	Ensure that on receipt of an Al	NM a Redirection number is pr	resent, a 200 OK (INVITE) is				
	sent. The Redirection number						
	hi-targeted-to-uri in a History-I						
	and the cause parameter value	ie is mapped from a previous	received Redirecting reason				
IOUD Developed	as indicated in table 6.3.3-25						
ISUP Parameter values	ACM: Backward call indicator						
	Called party status=						
	Generic notification=ca Call diversion information						
	Redirecting reason						
	Redirection number	=REAS_value					
	ANM:						
	Redirection number						
	Nature of address indicator=NOA value						
	Address signal <b>Digits</b>						
SIP Parameter values	200 OK:						
	History-Info: <sip:unknow< th=""><th>n@unknown.invalid&gt;; index=1</th><th></th></sip:unknow<>	n@unknown.invalid>; index=1					
		HIST_URI;cause=Cause_valu					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE -	<b>→</b>	IAM				
	181 Being forwarded ←	· <b>←</b>	ACM				
	180 Ringing ←	· <b>←</b>	CPG				
	200 OK INVITE	· <b>←</b>	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 6.3.1/2 AND PICS 6	3.3.2/5					
Test Purpose name	Mapping of ANM Redirect	tion Number Restriction in	to 200 OK INVITE Privacy header				
Test Purpose			mber Restriction parameter is present				
	as an indication a call dive	ersion occurred, a 200 OK	INVITE is sent. The Redirection				
			the Privacy header in the sent 200 OK				
	INVITE as indicated in tab	ole 6.3.3-27					
ISUP Parameter values	ACM: Generic notification	n=call is diverting					
	Call diversion infor	mation					
	Redirection number						
	ANM: Event indicator=Al						
	Redirection Number	Redirection Number Restriction=PRES_restr					
SIP Parameter values	200 OK INVITE:						
	Privacy= <b>PRIV_value</b>	Privacy= <b>PRIV_value</b>					
Comments							
Message flows	Mg	MGCF	ISUP				
	INVITE	<b>→</b>	→ IAM				
	181 Being forwarded	<b>←</b>	← ACM				
	180 Ringing ← ← CPG						
	200 OK INVITE ← ANM						
	ACK	<b>→</b>					
		Apply post test routine					

## 6.3.4 Conference call (CONF)

TP number	TP_404_001	Refer	ence		7.5.6.2	
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/20 ANI	D PICS 6.3.9/1			
Test Purpose name	'isfocus' parameter ar	nd conference U	RI in Contact he	eader in	ACK recei	ived, 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: <					
	SUBSCRIBE: Reques					
		RI equal to the v				000
Comments	P-Asse	rted-Identity: < l	JRI equal to the	value ii	1 the 180 c	or 200>
Comments	Mai		MOOF			ICLID
Message flows	Mg	•	MGCF		1004	ISUP
	INVITE	<b>→</b>		<b>→</b>	IAM	
	100 Trying	<del>(</del>		,	A O N A	
	180 Ringing	<del>(</del>		<b>←</b>	ACM	
	000 OK (INI) (ITE)			,	A B I B 4	
	200 OK (INVITE)	<del>(</del>		<b>←</b>	ANM	
	ACK	<b>→</b>				
	SUBSCRIBE	<b>←</b>				
		<b>→</b>				
	202 Accepted → Apply post test routine					
		Арр	ny post test ro	ullile		

TP number	TP 404 002	Reference	7.5.6.2			
TSS reference	PSTN-SS/CONF/	Reference	1.0.0.2			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	0/20 AND DICS 6 2 0/1				
			I:- 000 OKiI -			
Test Purpose name	'isfocus' parameter and conference URI in Contact header in 200 OK received, a SUBSCRIBE is sent					
Test Purpose	Ensure that on receipt of a 200 OK INVITE successful final response and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent. The Request URI contains the value received in the Contact header in the 200 OK, the From header is set to the value sent in the initial INVITE request, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the initial INVITE request the Privacy header is sent as in the initial INVITE					
ISUP Parameter values						
SIP Parameter values	200: Contact: <conference uri="">; isfocus SUBSCRIBE: From: <uri equal="" in="" invite="" the="" to="" value=""> P-Asserted-Identity: &lt; URI equal to the value in the INVITE&gt;</uri></conference>					
Comments						
Message flows	Mg	MGCF	ISUP			
	IAM →	<b>→</b>	INVITE			
		<b>←</b>	100 Trying			
	ACM ←	<b>←</b>	180 Ringing			
	ANM ←	<b>←</b> →	200 OK (INVITE) ACK			
	→ SUBSCRIBE ← 202 Accepted					
		Apply post test routing	•			

TP number	TP_404_003	Refe	rence		7.5.6.3		
TSS reference	PSTN-SS/CONF/	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1						
Test Purpose name	Interworking of notifica	tion of 'Confer	ence established	d' at the	I-MGCF		
Test Purpose	Ensure that on receipt of an initial INVITE request and the Contact header contains the <b>isfocus</b> parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is set and the Generic notification parameter is set to 'Conference established'						
ISUP Parameter values	CPG: Generic notifica						
	Conference						
SIP Parameter values	INVITE: Contact: <conference uri="">; isfocus  NOTIFY: Subscription-State: active</conference>						
Comments							
Message flows	Mg INVITE 100 Trying 180 Ringing	<b>→</b> ←	MGCF	<b>→</b>	IAM ACM	ISUP	
	200 OK (INVITE) ACK	<b>←</b> →		<b>←</b>	ANM		
	SUBSCRIBE 202 Accepted	<b>←</b> →					
	NOTIFY 200 OK (NOTIFY)	→ ← Δn:	ply post test ro	→ utine	CPG		
	1	70	p., poor toot 10	<u></u>			

TP number	TP_404_004	Refere	nce	7.5.6.3				
TSS reference	PSTN-SS/CONF/							
Selection criteria		PICS 6.3.2/20 AND	PICS 6.3.9/1					
Test Purpose name	Interworking of notification of 'Conference established' at the O-MGCF							
Test Purpose		Ensure that on receipt of an INVITE request after a session was established and the						
Tool   M.   Pool				BCRIBE request is sent. Ensure that				
				UBSCRIBE request and a XML				
				ment of the 'conference-state'				
		element is set to 'true' an ISUP CPG message is set and the Generic notification parameter						
		s set to 'Conference established'. The INVITE request contains also a Replaces header						
		to terminate the originally session by sending a BYE request						
ISUP Parameter values	CPG: Generic no	otification		•				
	Confer	ence established						
SIP Parameter values	INVITE 1: CallID:	XXX						
	INVITE 2: CallID:	ууу						
	Contac	t: <conference uri=""></conference>	; isfocus					
		es: xxx; to-tag=<>;fre	om-tag=<>					
		ription-State: active						
		conference						
		nt-Type: application/c	onference-info+x	ml				
		version="1.0"						
		ence-info						
		ference-state						
		active>true<						
0	BYE: CallID: xxx		<b> </b>	- in a distinct and booth a second account				
Comments				e is originated by the conference				
Message flows	Mg	ally dialogue have to	GCF	ISUP				
Wessage nows	IAM	<b>→</b>	→ •	INVITE 1				
	IAIVI	7	<del>-</del>					
	A CNA	<b>←</b>	<del>-</del>	100 Trying				
	ACM	~	~	180 Ringing				
	ANM	<b>←</b>	_	200 OK (INIVITE)				
	AINIVI	~	<b>←</b>	200 OK (INVITE) ACK				
			7	ACK				
			<b>←</b>	INVITE 2				
			<del>-</del>					
			<del>-</del>	200 OK (INVITE) ACK				
			•	ACK				
			<b>→</b>	SUBSCRIBE				
			<del>-</del>					
			•	202 Accepted				
	CPG	<b>←</b>	<b>←</b>	NOTIFY				
	OF G	•	<b>→</b>	200 OK (NOTIFY)				
			7	ZUU UN (NUTIFT)				
			<b>←</b>	BYE				
			<b>→</b>					
	→ 200 OK (BYE)  Apply post test routine							
		Аррі	y posi iesi routi	IIIC				

TSS reference PSTN-SS/CONF/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/20 AND F					
l	vadded at the LMCCF				
Test Purpose name Interworking of notification of 'other party	y added at the I-MOCI				
	dicated by receipt of an adequate NOTIFY request				
	a NOTIFY request and the 'entity' attribute of the				
	ISUP address as received in the To header and the				
	ment is set to <b>connected</b> , an ISUP CPG message				
is sent the Generic notification indicator	is set to 'other party added'				
ISUP Parameter values					
other party added					
	NOTIFY: To: <isup address=""></isup>				
Subscription-State: active	Subscription-State: active				
Event: conference	Event: conference				
Content-Type: application/cor	Content-Type: application/conference-info+xml				
xml version="1.0"</th <th colspan="5">1774111 1010111 110</th>	1774111 1010111 110				
conference-info	conference-info				
users	users				
user	user				
endpoint entity=" <r< th=""><th colspan="5">endpoint entity="<not isup="" of="" uri="">"</not></th></r<>	endpoint entity=" <not isup="" of="" uri="">"</not>				
status>connect	status>connected<				
Comments					
Message flows Mg	MGCF ISUP				
Session is establish	Session is established and joined in a conference				
NOTIFY <del>&gt;</del>	→ CPG				
200 OK (NOTIFY) ←					
	post test routine				

TP number	TP 404 006	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF		11.0.0.0			
Selection criteria		D PICS 6.3.2/20 AND PICS 6.3.9/1				
Test Purpose name			O MCCE			
Test Purpose		otification of 'other party added' at the				
rest ruipose		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				
			is as received in the To header and the			
			o connected, an ISUP CPG message			
		ric notification indicator is set to ' <b>oth</b>				
ISUP Parameter values	CPG: Generic n		er party added			
150P Parameter values	0. 0. 00	·				
CID Deservator values		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 is<="" of="" th="" uri=""><th>UP&gt;"</th></not>	UP>"			
		status>connected<				
Comments						
Message flows	Mg	MGCF	ISUP			
	Session is established and joined in a conference					
	CPG	<b>←</b>	NOTIFY			
		•	→ 200 OK (NOTIFY)			
		Apply post test ro	utine			

TP number	TP 404 007	Reference	7.5.6.3		
TSS reference	PSTN-SS/CONF/	-			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/20 AND PICS 6.3.9/1			
Test Purpose name	Interworking of notification of				
Test Purpose		already indicated by receipt of	an adequate NOTIFY request		
	at the I-MGCF. Ensure that of	n receipt of a NOTIFY request	and the 'entity' attribute of the		
	'endpoint' element contains the ISUP address as received in the To header and the 'status'				
	sub element of the 'endpoint' element is set to <b>on-hold</b> , an ISUP CPG message is sent the				
	Generic notification indicator	is set to 'isolated'			
ISUP Parameter values	CPG: Generic notification				
	Isolated				
SIP Parameter values	NOTIFY: To: <isup addres<="" th=""><th></th><th></th></isup>				
	Subscription-State				
	Event: conference				
	xml version="1.</th <th>olication/conference-info+xml</th> <th></th>	olication/conference-info+xml			
	conference-info	0			
	users				
	user				
	endpoint entity=" <uri isup="" of="">"</uri>				
	status>on-hold<				
Comments					
Message flows	Mg	MGCF	ISUP		
	Session i	s established and joined in a	conference		
	CASE A				
	NOTIFY	<b>→</b>	CPG		
	200 OK (NOTIFY)	←			
	CASE B				
		<b>→</b>	CPG		
	200 OK (NOTIFY) ←				
		•			
	` ,	<del>}</del>			
	,	<del>(</del>			
	ACK	<b>→</b>			
	<u> </u>	Apply post test routine			

TP number	TP_404_008	Reference		7.5.6.3			
TSS reference	PSTN-SS/CONF/						
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/20 AND PICS 6.3	.9/1				
Test Purpose name	Interworking of not	ification of 'isolated' at the O-I	<b>MGCF</b>				
Test Purpose	at the O-MGCF. 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 <b>on-hold</b> , an ISUP CPG message is sent the Generic notification indicator is set to ' <b>isolated</b> '					
ISUP Parameter values	CPG: Generic not	ification					
OID D	isolated	10 11					
SIP Parameter values  Comments	NOTIFY: To: <isup address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<URI of ISUP>" status&gt;on-hold&lt;</isup>						
	NA	MOOF		ICUID			
Message flows	Mg	MGCF		ISUP			
	CASE A	Session is established and	joined	in a conference			
	CPG	<b>←</b>	<b>←</b> →	NOTIFY 200 OK (NOTIFY)			
	CASE B						
	CPG ← NOTIFY → 200 OK (NOTIFY)						
			<b>←</b> <b>→</b>	INVITE(sendonly) 200 OK (INVITE) ACK			
		Apply post tes	st routi	ne			

TP number	TP_404_009	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/	•	•			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/20 AND PICS 6.3.9/	1			
Test Purpose name	Interworking of notificati	ion of 'other party isolated'	at the I-MGCF			
Test Purpose	at the I-MGCF. Ensure 'endpoint' element does 'status' sub element of t sent the Generic notification.	An established conference is already indicated by receipt of an adequate NOTIFY request at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not contain the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>on-hold</b> , an ISUP CPG message is sent the Generic notification indicator is set to ' <b>other party isolated</b> '				
ISUP Parameter values	CPG: Generic notificat	ion				
	other party is					
SIP Parameter values	Event: confe Content-Type xml versio<br conference-ii users user	-State: active rence e: application/conference-ir n="1.0"				
Comments						
Message flows	Mg	MGCF	ISUP			
		sion is established and jo				
	NOTIFY	<b>→</b>	→ CPG			
	200 OK (NOTIFY)	<b>←</b>				
		Apply post test	routine			

TP number	TP_404_0	110	Reference	7.5.6.3		
TSS reference	PSTN-SS/	CONF/				
Selection criteria	PICS 6.3.	1/2 AND PICS 6.3.2/2	20 AND PICS 6.3.9/1			
Test Purpose name	Interworki	ng of notification of 'c	other party isolated at the	e O-MGCF		
Test Purpose				pt of an adequate NOTIFY request		
				quest and the 'entity' attribute of the		
				as received in the To header and the		
				n-hold, an ISUP CPG message is		
	sent the G	eneric notification in	dicator is set to 'other pa	rty isolated'		
ISUP Parameter values	CPG: Ge	neric notification				
		other party isolated				
SIP Parameter values	NOTIFY:	To: <isup address=""></isup>	•			
	Subscription-State: active					
	Event: conference					
	Content-Type: application/conference-info+xml					
		xml version="1.0"</th <th></th> <th></th>				
		conference-info				
		users				
	user					
	endpoint entity=" <not isup="" of="" uri="">"</not>					
		status	>on-hold<			
Comments						
Message flows		Mg	MGCF	ISUP		
		Session is	established and joined	in a conference		
	CPG	<del>-</del>	<b>+</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
			Apply post test routi	,		

TP number	TD 404 011	Reference	7.5.6.3				
TSS reference	TP_404_011	Reference	7.5.6.5				
	PSTN-SS/CONF/		14				
Selection criteria		6.3.2/20 AND PICS 6.3.9					
Test Purpose name		on of 'reattached' at the I-					
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'					
			IP address as received in the				
			ent is set to <b>connected</b> , an IS	UP CPG			
		neric notification indicator	is set to reattached				
ISUP Parameter values	CPG: Generic notificati	on					
	reattached						
SIP Parameter values	NOTIFY: To: <isup ac<="" th=""><th></th><th></th><th></th></isup>						
	Subscription-						
	Event: confer	000					
		e: application/conference-i	nto+xml				
	xml version</th <th></th> <th></th> <th></th>						
	conference-ir	1TO					
	users						
	user						
	endpoint entity=" <uri isup="" of="">"</uri>						
0		status>connected<					
Comments	Na	МООГ	IOUR				
Message flows	Mg	MGCF	ISUP				
	Session is established joined in a conference and isolated						
	CASE A	_					
	NOTIFY	<b>→</b>	→ CPG				
	200 OK (NOTIFY)	<b>←</b>					
	0.000						
	CASE B						
	NOTIFY	<b>→</b>	→ CPG				
	200 OK (NOTIFY) ←						
	INVITE(sendrecv)	<b>→</b>					
	200 OK (INVITE)	<del>(</del>					
	ACK	<del>`</del>					
	AOR	Apply post test	routine				
		Apply post lest	TOULING				

TP number	TP_404_012	Reference		7.5.6.3		
TSS reference	PSTN-SS/CONF/					
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/20 AND PICS 6.3	.9/1			
Test Purpose name	Interworking of not	ification of 'reattached' at the	O-MGC	F		
Test Purpose	and isolated at the attribute of the 'end and the 'status' sub message is sent th	An established conference is already indicated by receipt of an adequate NOTIFY request and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to <b>connected</b> , an ISUP CPG message is sent the Generic notification indicator is set to 'reattached'				
ISUP Parameter values	CPG: Generic not					
	Reattacl					
SIP Parameter values	NOTIFY: To: <isup address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<URI of ISUP>" status&gt;connected&lt;</isup>					
Comments		11005		IOUD		
Message flows	Mg	MGCF		ISUP		
	CASE A	Session is established joined in a conference and isolated CASE A				
	CPG	<b>←</b>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
	CASE B					
	CPG	<b>←</b>	<b>←</b>	NOTIFY		
		→ 200 OK (NOTIFY)				
			<b>←</b> <b>→</b> <b>←</b>	INVITE(sendrecv) 200 OK (INVITE) ACK		
		Apply post te	st routii	ne		

TP number	TP_404_013	Reference	7.5.6.3				
TSS reference	PSTN-SS/CONF/						
Selection criteria		6.3.2/20 AND PICS 6.3.9/1					
Test Purpose name		on of 'other party reattached					
Test Purpose			eceipt of an adequate NOTIFY request				
			that on receipt of a NOTIFY request				
			es not contain the ISUP address as				
			ent of the 'endpoint' element is set to				
			neric notification indicator is set to				
ICUID Deservation and least	other party reattached						
ISUP Parameter values	<b>3. 3.</b> 33	CPG: Generic notification					
OID D		other party reattached					
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					
		shed joined in a conferenc	e and another party was isolated				
	NOTIFY	<b>→</b>	→ CPG				
	200 OK (NOTIFY)	<b>←</b>					
		Apply post test re	outine				

TP number	TP_404_014	Reference	7.5.6.3		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/20 AND PICS 6.3.9/1			
Test Purpose name	Interworking of 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: <is< th=""><th></th><th></th></is<>				
	Subscription-State: active				
	Event: conference				
		nt-Type: application/conference-info	+xml		
	********	version="1.0"			
	confere	ence-info			
	users				
	user				
	endpoint entity=" <not isup="" of="" uri="">"</not>				
		status>connected<			
Comments					
Message flows	Mg	MGCF	ISUP		
		stablished joined in a conference			
	CPG	<del>(</del>	NOTIFY		
		-	200 OK (NOTIFY)		
		Apply post test ro	utine		

TP number	TP_404_015	Reference	7.5.6.3			
TSS reference	PSTN-SS/CONF/	, no. o. o. o.	1.0.0.0			
Selection criteria		ICS 6.3.2/20 AND PICS 6.	3 9/1			
Test Purpose name						
Test Purpose	An established confe at the I-MGCF. Ensu 'endpoint' element do sub element of the 'e	Interworking of notification of 'other party disconnected' at the I-MGCF  An established conference is already indicated by receipt of an adequate NOTIFY request at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to dialled-out, an ISUP CPG message is sent the Generic notification indicator is set to 'other party disconnected'				
ISUP Parameter values	CPG: Generic notific	cation				
	other part	y disconnected				
SIP Parameter values	Event: cor Content-T	ion-State: active inference Type: application/conferencesion="1.0" re-info	l of ISUP>" d-in<			
Comments						
Message flows	Mg So NOTIFY 200 OK (NOTIFY)	MGCi ession is established and	d joined in a conference → CPG	ISUP e		
		Apply post to	est routine			

TP number	TP_404_016	Refe	rence	7.5.6.3		
TSS reference	PSTN-SS/CON	F/				
Selection criteria	PICS 6.3.1/2 A	ND PICS 6.3.2/20 AN	D PICS 6.3.9/1			
Test Purpose name	Interworking of	notification of 'other p	arty disconnected	at the O-MGCF		
Test Purpose				pt of an adequate NOTIFY request		
				quest and the 'entity' attribute of the		
				s received in the To header and the		
				ialled-out, an ISUP CPG message		
		eric notification indica	tor is set to ' <b>other</b>	party disconnected'		
ISUP Parameter values	CPG: Generic	notification				
		r party disconnected				
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>disconnected<					
	or					
		joining-meth	nod>dialled-out<			
Comments						
Message flows	Mg		MGCF	ISUP		
			lished and joined			
	CPG	<b>←</b>	<b>←</b>	NOTIFY		
			<b>→</b>	200 OK (NOTIFY)		
		Ap	ply post test routi	ne		

## 6.3.5 Message Waiting Indication (MWI)

Void.

#### 6.3.6 Malicious Communication Identification (MCID)

TP number	TP_406_001	Reference	7.5.9.1
TSS reference	IMS-SS/MCID/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/3	
Test Purpose name	Receipt of INFO request an ID	R is sent	
Test Purpose	Ensure that on receipt of an IN 'McidRequestIndicator' subele and the MCID request indicator	ment is set to XML_McidRe	eq, an ISUP IDR message is sent
ISUP Parameter values	IDR: MCID request indicator MCID_req	s	
SIP Parameter values	INFO: xml version="1.0"     mcid     request McidRequestIndica     HoldingIndicator>1-	tor> <b>XML_McidReq</b> </th <th></th>	
Comments			
Message flows	Mg IAM → IDR ← Apply post test routine	→   ←	ISUP INVITE 100 Trying INFO 200 OK INFO

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

	XML_McidReq	MCID_req
VA_01	0	MCID not requested
VA_02	1	MCID requested

TP number	TP_406_002	Reference		7.5.9.1			
TSS reference	IMS-SS/MCID/						
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/3					
Test Purpose name	Receipt of IRS an I	NFO request is sent					
Test Purpose			ntaining a N	MCID response indicator set to			
		O is sent and a MCID XMI					
		eIndicator is set to XML_N					
ISUP Parameter values	IRS: MCID respo	nse indicator	_				
	MCID_r	sp					
SIP Parameter values	INFO:						
	xml version=</th <th>"1.0"</th> <th></th> <th></th>	"1.0"					
	mcid						
	response>	response>					
	McidRes	McidResponseIndicator> <b>XML_McidRsp</b> </th					
Comments							
Message flows	Mg	MGCF		ISUP			
	IAM	<b>→</b>	<b>→</b>	INVITE			
	ACM	<b>←</b>	<b>←</b>	100 Trying			
	IDR		<b>←</b>	INFO			
		→ 200 OK INFO					
	IRS	<b>→</b>	→	INFO			
			<b>←</b>	200 OK INFO			
	Apply post test ro	utine					

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

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

TP number	TP_406_003	Reference	7.5.9.1.3
TSS reference	IMS-SS/MCID/	•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3		
Test Purpose name	Receipt of IRS an INFO 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 indica MCID included Calling Party number Address presentat Address signal	ator ion restriction indicator= <b>APRI</b>	_value
SIP Parameter values	INFO: xml version="1.0"     mcid     response McidResponseInd     OrigPartyIdentity>		rty number Address signal </th
Comments			
Message flows	Mg IAM ACM IDR  IRS →	→ IN ← 18 ← IN → 20	SUP NVITE 80 Ringing NFO 00 OK INFO 00 OK INFO
	Apply post test routine		

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

	APRI_value	XML_orig_restr
VA_01	Presentation restricted	true
VA 02	Presentation allowed	false

TP number	TP_406_004	Reference	7.5.9.1.4
TSS reference	IMS-SS/MCID/	·	·
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3		
Test Purpose name	Receipt of IRS an INFO request is sent, an Additional calling party number is interworked		
Test Purpose	Ensure that on receipt of an IRS message containing a 'mcid' response indicator is set to MCID included, an INFO request is sent and a MCID XML response element is present the McidResponseIndicator is set to 1  An Additional calling party number 'user provided' or 'user provided, not verified' or 'network provided' is contained in the IRS a XML mcid GenericNumber element is present in the INFO request and the URI is derived from the address signals of the Additional calling party number.  Nature of address indicator  National (significant) number: add '+' and 'CC' the county code where the SUT is located to the Address signal of the Additional calling party number and sent in the 'mcid' XML GenericNumber element.  International number: add '+' to the Address signal of the Additional calling party number and sent in the 'mcid' XML GenericNumber element.  The Additional calling party number Address Presentation restriction indicator value APRI_value is mapped into the XML mcid GenericNumberPresentationRestriction is set to		
		s indicated in table 6.3.6-	
ISUP Parameter values		ncluded mber nal calling Party number s presentation restriction i	indicator= <b>APRI_value</b>
SIP Parameter values	INFO: xml version= mcid response McidRe Generic	="1.0" sponseIndicator> <b>1</b> <br :Number> <b>derived from t</b> i	he Generic number Address signal <br triction>XML_gen_restr </th
Comments			
Message flows	Mg IAM ACM IDR	MGCF → ←	ISUP  → INVITE  ← 180 Ringing  ← INFO  → 200 OK INFO  → INFO  ← 200 OK INFO
	Apply post test re	outine	200 OK IINFO

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

	APRI_value	XML_gen_restr
VA_01	Presentation restricted	true
VA 02	Presentation allowed	false

TP number	TP_406_005	Reference	7.5.9.2.2	
TSS reference	IMS-SS/MCID/	IMS-SS/MCID/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/3		
Test Purpose name	ISUP IDR is mapped into INFO	O request		
Test Purpose	MCID_req, an INFO request is	Ensure that on receipt of an ISUP IDR containing a MCID request indicators indicator set to <b>MCID_req</b> , an INFO request is sent. A XML 'mcid' McidRequestIndicator is included set to <b>XML_McidReq</b> as indicated in table 6.3.6-5		
ISUP Parameter values	IDR: MCID request indicator MCID_req	S		
SIP Parameter values	INFO: xml version="1.0"     mcid     request McidRequestIndica:     HoldingIndicator>1-	tor> <b>XML_McidReq&lt;</b> / </th <th></th>		
Comments				
Message flows	Mg 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 6.3.1/2 AND PICS 6.3.2/	3	
Test Purpose name	INFO request is mapped into I	SUP IRS	
Test Purpose		IFO request the XML 'mcid' Mci nt. The MCID response indicato	
ISUP Parameter values	IRS: MCID response indicate	or	
	MCID_rsp		
SIP Parameter values	INFO:		
	xml version="1.0"</th <th></th> <th></th>		
	mcid		
	response> McidResponseIndic	ator>XML_McidRsp </th <th></th>	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	· -	IAM
	100 Trying ←	•	
	INFO •	·	IDR
	200 OK INFO	•	
	INFO 200 OK INFO	•	IRS
		Apply post test routine	

Table 6.3.6-6: Mapping of XML McidResponseIndicator into ISUP MCID response indicator

	XML_McidRsp	MCID_rsp
VA_01	0	MCID not included
VA_02	1	MCID included

TP number	TP_406_007	Reference	7.5.9.2.3
TSS reference	IMS-SS/MCID/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3		
Test Purpose name	XML OrigPartyIdentity is mapp	ped into ISUP IRS Calling Party	/ number
Test Purpose	<ul> <li>MCID_rsp, an ISUP IRS is see The XML OrigPartyIdentity is refered.</li> <li>If the country code of the SUT is located the Nature and the country code is refered.</li> <li>If the country code of the the SUT is located the Nature and send in the Address see If the country code of the the SUT is located the Nature and the Nature</li></ul>	mapped into the Calling party: OrigPartyIdentity URI is equal to of address is set to 'National emoved from the user part of the signals of the Calling party num OrigPartyIdentity URI is not equiture of address is set to 'Internation' of the XML OrigPartyIdentity	to the country code where the (significant) number', the '+' e XML OrigPartyIdentity URI liber. ual to the country code where national number', the '+' is URI and send in the Address restr is mapped into the
ISUP Parameter values	IRS: MCID response indicat MCID included Calling Party number Address presentation	or on restriction indicator=APRI_v rived from the OrigPartylden	
SIP Parameter values	INFO:		<b>-</b>
	<pre><?xml version="1.0" mcid response> McidResponseIndic OrigPartyIdentity&gt;a OrigPartyPresentat</pre>		r </th
Comments			
Message flows	Mg INVITE 100 Trying INFO 200 OK INFO	- • ←	ISUP IAM IDR
	INFO 200 OK INFO		IRS

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

	is mapped into ISUP IRS	Additional calling Party number	
Test Purpose name XML GenericNumber	is mapped into ISUP IRS	Additional calling Party number	
		Additional calling Party number	
Toot Durnoso	t of an INFO request the X	raditional calling raity harrison	
	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to <b>MCID_rsp</b> , an ISUP IRS is sent.		
	nber is mapped into the Ac	Iditional calling party:	
		JRI is equal to the country code where the	
		to 'National (significant) number', the '+'	
		iser part of the XML GenericNumber URI	
	and send in the Address signals of the Additional calling party number.		
		JRI is not equal to the country code where	
		set to 'International number', the '+' is	
		nericNumber URI and send in the Address	
	ditional calling party number		
		n value <b>XML_gen_restr</b> is mapped into the	
		value of the Additional calling party	
number as indicated i		5,11,	
ISUP Parameter values IRS: MCID respons			
MCID inclu			
Generic numb	er		
	calling Party number		
Address pr	esentation restriction indic	ator= <b>APRI_value</b>	
Address si	gnal		
SIP Parameter values INFO:			
xml version="1.</th <th>0"</th> <th></th>	0"		
mcid			
response>	1 5 4 4		
	McidResponseIndicator>1 GenericNumber>derived from the Generic number Address signal		
Comments	mberPresentationRestriction	ON>AML_gen_restr </th	
Message flows Mg	MGCF	ISUP	
INVITE	→	→ IAM	
100 Trying	É	2 IAWI	
INFO	÷	<b>←</b> IDR	
200 OK INFO	÷	₹ IBIN	
200 311111 0	•		
INFO	<b>→</b>	→ IRS	
200 OK INFO	É	2 110	
250 51(114) 0	Apply post te	st routine	

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

	XML_gen_restr	APRI_value
VA_01	true	Presentation restricted
VA 02	false	Presentation allowed

## 6.3.7 Closed User Group (CUG)

TP number	TP_407_001	Reference	7.5.10.1
			table 7.5.10.1.1,
			table 7.5.10.1.2
TSS reference	IMS-SS/CUG/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/23	
Test Purpose name	Mapping of the SIP XML CUG parameter	Element to the ISUP closed u	isergroup interlock code
Test Purpose	Ensure that on receipt of an IN		
	application/vnd.etsi.cug+xml a		
	'networkIndicator' is mapped in		
	Identity indicator and the XML		apped into the ISUP Closed
	user group interlock code Bina	ry code indicator	
ISUP Parameter values	IAM:		
	Optional forward call in		
	Closed user group		
	Closed user group inte		
		napped from XML networkIndi	
	Binary code mapped from XML cugInterlockBinaryCode		
SIP Parameter values	INVITE:		
	Content-Type: application/vnd	.etsi.cug+xml	
	xml version="1.0"</th <th></th> <th></th>		
	cug		
		cator=any proper value	
		kBinaryCode=any proper va	lue
	cugCommur	nicationIndicator	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE -	<del>-</del>	IAM
	100 Trying ₩		
		Apply post test routine	

TP number	TP_407_002	Reference	7.5.10.1
	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	100000
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23		
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	of an INVITE request containing g+xml and the 'cug' XML body,	ng the Content-Type
		I indicator as indicated in table	
ISUP Parameter values	IAM:	i indicator de indicated in table	0.0
		r group call indicator= <b>CUG_inc</b> oup interlock code entity	1
SIP Parameter values	INVITE: Content-Type: applica xml version= cug netw cugl</th <th>tion/vnd.etsi.cug+xml</th> <th>_COM_ind</th>	tion/vnd.etsi.cug+xml	_COM_ind
Comments			<del></del>
Message flows	Mg	MGCF	ISUP
	INVITE 100 Trying	<del>→</del> ←	→ IAM
	Apply post test routine		

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

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

TP number	TP_407_003	Reference	7.5.10.1	
			table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/	IMS-SS/CUG/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23			
Test Purpose name	Communication is rele outgoing access	Communication is released if the PSTN/ISDN network does not support CUG, CUG without outgoing access		
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	INVITE: Content-Type: application/vnd.etsi.cug+xml xml version="1.0" cug networkIndicator cugInterlockBinaryCode cugCommunicationIndicator='11'</th			
Comments				
Message flows	Mg INVITE 403 Forbidden ACK	MGCF	ISUP	

TP number	TP 407 004	Reference	7.5.10.1	
			table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23			
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			
	networkIndic	ator		
	cugInterlock	BinaryCode		
	cugCommunicationIndicator='10'			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP_407_005	Reference	7.5.10.1	
			table 7.5.10.1.4	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/23			
Test Purpose name	Communication is treated as a CUG, Non-CUG call	n ordinary call if the PSTN/ISD	N network does not support	
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '00', the communication is treated as an ordinary call if the PSTN/ISDN network does not support CUG. A Closed user group interlock code is not present in the sent IAM			
ISUP Parameter values				
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator			
	cugInterlockBinaryCode			
	cugCommunicationIndicator='00'			
Comments				
Message flows	Mg	MGCF	ISUP	
	INVITE → IAM			
	100 Trying ←			
	Apply post test routine			

TP number	TP 407 006	Reference	7.5.10.2	
			table 7.5.10.2.2	
TSS reference	IMS-SS/CUG/	-	•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	PICS 6.3.1/2 AND PICS 6.3.2/23		
Test Purpose name	Mapping of the ISUP closed	usergroup interloccode to	SIP XML CUG element	
Test Purpose	Ensure that on receipt of an	Ensure that on receipt of an IAM and a Closed user group interlock code parameter is		
			ty indicator is mapped into the XML	
	networkIndicator element, th	e Binary code is mapped in	nto the XML cugInterlockBinaryCode	
ISUP Parameter values	IAM:			
	Optional forward call	indicator		
	Closed user group	call indicator		
	Closed user group int			
	Network Identity	Network Identity=any proper value		
	Binary code=any	Binary code=any proper value		
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th <th></th> <th></th>			
	cug			
	networkIn	dicator= mapped from Ne	twork Identity	
	cugInterlockBinaryCode= mapped from Binary code			
	cugCommunicationIndicator			
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →		→ INVITE	
			← 100 Trying	
	Apply post test routine			

TP number	TP_407_007	Reference	7.5.10.2	
			table 7.5.10.2.3	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	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_in	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 inter	lock code		
	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_ir	nd	
Comments				
Message flows	Mg	MGCF	ISUP	
	IAM →	<b>→</b>	INVITE	
		<b>←</b>	100 Trying	
		Apply post test routine		

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

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

TP_407_008	Reference	7.5.10.2,	
		1.5.2.4.2/Q.735.1	
IMS-SS/CUG/	MS-SS/CUG/		
PICS 6.3.1/2 AND P	PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/1		
Communication is re outgoing access	Communication is released if the IMS network does not support CUG, CUG without outgoing access		
call indicator is set to network does not su	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		
Optional forw Closed user of Network In Binary cool REL: Cause indicate Cause val	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		
Mg	MGCF	ISUP	
IAM REL RLC	→ ← → Annly post test re	nutine	
	IMS-SS/CUG/ PICS 6.3.1/2 AND P Communication is re outgoing access Ensure that on recei call indicator is set to network does not su value is set to #29 F IAM: Optional forw Closed us Closed us Closed user of Network I Binary coor REL: Cause indica Cause va Diagnosti	IMS-SS/CUG/  PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/ Communication is released if the IMS network does outgoing access  Ensure that on receipt of an IAM and the Optional for call indicator is set to closed user group call, outgoin network does not support the CUG supplementary signature value is set to #29 Facility rejected the diagnostics in IAM:  Optional forward call indicator Closed user group call indicator—Closed user group interlock code Network Identity Binary code  REL:  Cause indicator Cause value=29 Diagnostics=3  Mg MGCF IAM REL  MGCF	

TP number	TP_407_009	Reference	7.5.10.2,		
			1.5.2.4.2/Q.735.1		
TSS reference	IMS-SS/CUG/	·			
Selection criteria	PICS 6.3.1/2 AND PIC	PICS 6.3.1/2 AND PICS 6.3.2/23 AND PICS 6.3.10/1			
Test Purpose name	Communication is trea	ted as an ordinary call if the IN	IS network does not support CUG,		
	CUG with outgoing acc	cess			
Test Purpose			ward call indicator Closed user group		
			g access allowed and the IMS network		
	does not support the C	CUG supplementary service, th	e communication is treated as an		
	ordinary call				
ISUP Parameter values	IAM:				
	Optional forwar	Optional forward call indicator			
	Closed user group call indicator=C UG call, outgoing access allowed				
		Closed user group interlock code			
	Network Ide	Network Identity			
	Binary code	Binary code			
SIP Parameter values					
Comments					
Message flows	Mg	MGCF	ISUP		
	IAM	<b>→</b>	→ INVITE		
			← 100 Trying		
	Apply post test routine				

#### 6.3.8 CCBS/CCNR

TP number	TP_408_001	Reference	7.5.11.1,	
			table 7.5.11.1.1	
TSS reference	IMS-SS/CC/	IMS-SS/CC/		
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/24		
Test Purpose name	Mapping of CCNR poss	sible indication in the ACM		
Test Purpose	Ensure that on receipt of an ACM and a CCNR possible indicator is present set to 'CCNR possible' a 180 Ringing is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'NR'			
ISUP Parameter values	IAM: Called party nur Number digit ACM: Called party stat Subscriber fr CCNR possible CCNR possi	ts tus ree indicator		
SIP Parameter values	180: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion;m=NR</sip:called>			
Comments		<u> </u>	·	
Message flows	Mg INVITE 180 Ringing	MGCF → ← Apply post test i	ISUP  → IAM ← ACM  routine	

TP number	TP_408_002	Reference	7.5.11.1,		
			table 7.5.11.1.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Mapping of CCNR possible ind	ication in the CPG			
Test Purpose	Ensure that on receipt of an CF				
	indicator is present set to 'CCN				
	present, the URI is derived from	n the Called party number, the	purpose parameter is set to		
	'call-completion', the m parame	ter is set to 'NR'			
ISUP Parameter values	IAM: Called party number				
	Number digits				
	<b>ACM:</b> Called party status	ACM: Called party status			
	No indication				
	CPG: Event indicator				
	Alerting				
	CCNR possible indicator				
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>arty number digits&gt;;purpose=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 →	<b>→</b>	IAM		
		<b>←</b>	ACM(no indication)		
	180 Ringing ← ← CPG(Alerting)				
		Apply post test routine			

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

TP number	TP_408_004	Reference	7.5.11.1,
			table 7.5.11.1.1
TSS reference	IMS-SS/CC/	·	·
Selection criteria	PICS 6.3.1/2 AND P	ICS 6.3.2/24	
Test Purpose name	Mapping of m param	neter in the INVITE request UR	I into CCSS parameter in the IAM
Test Purpose			m parameter set to 'BS' or 'NR' an IAM
	is sent and the CCS	S call indicator parameter is pr	esent and the value is set to 'CCSS call'
ISUP Parameter values	IAM: CCSS call ind	dicator	
	CCSS cal	I	
SIP Parameter values	INVITE: <request< th=""><th>: URI&gt;;m=NR or ;m=BS</th><th></th></request<>	: URI>;m=NR or ;m=BS	
Comments			
Message flows	Mg	MGCF	ISUP
	INVITE	<b>→</b>	→ IAM
	100 Trying	<b>←</b>	
		Apply post test i	routine

TP number	TP_408_005	R	Reference	7.5.11.1,
				table 7.5.11.1.1
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 A	AND PICS 6.3.2/24		
Test Purpose name	Mapping of Ca	III-Info header in th	e INVITE into CCS	S parameter in the IAM
Test Purpose	Ensure that or	receipt of an INVI	TE request and a C	call-Info header is present the purpose
				neter set to 'BS' or 'NR' an IAM is sent
	and the CCSS	call indicator para	meter is present an	d the value is set to 'CCSS call'
ISUP Parameter values	IAM: CCSS	call indicator		
	CC	SS call		
SIP Parameter values		equest URI>		
	Cal	ا-Info: <sip:called< th=""><th>party number digits:</th><th>;purpose=call-completion; m=BS or</th></sip:called<>	party number digits:	;purpose=call-completion; m=BS or
	NR			
Comments				
Message flows	Mg	9	MGCF	ISUP
	INVITE	<b>→</b>		→ IAM
	100 Trying	<b>←</b>		
			Apply post test ro	outine

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

TP number	TP_408_007	Reference	7.5.11.1,
			table 7.5.11.1.2
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24	
Test Purpose name	Invocation of CCBS in the I-MC	SCF	
Test Purpose	Ensure that on receipt of a SUI		
	'call-completion' and a Call-Info	header with purpose parame	ter ser to call-completion and
	m parameter set to 'BS', a SCC	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 CallingPartyNui	mber is derived from the From	header and the
	RetainSupported is set to 'TRU	IE'	
TCAP Parameter values	TC Begin		
	CCBS REQUEST invoke		
	CalledPartyNumber derived from the <b>To</b> header		
	CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header		
	RetainSupported		
	TRUE		
SIP Parameter values	SUBSCRIBE: <request uri=""></request>		
	Event: call-completion		
	Call-Info: <sip:ca< th=""><th>alling party number digits&gt;;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
1	SUBSCRIBE →	<b>→</b>	(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/	1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24	
Test Purpose name	Invocation of CCNR in the I-MC	GCF	
Test Purpose	Ensure that on receipt of a 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 RetainSupported is set to 'TRUE'		
TCAP Parameter values	TC Begin CCBS REQUEST invoke CalledPartyNumber derived from the <b>To</b> header CallingPartyNumber derived from the <b>P-Asserted-Identity</b> header RetainSupported TRUE		
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>		
_	Event: call-completion		
Comments			
Message flows	Mg	MGCF	SCCP
	SUBSCRIBE -	→	(X)UDT (TC-Begin)
	202 Accepted ←		
		Apply post test routine	

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

TP number	TP 408 010	Reference	7.5.11.1,
Ti Tidilisoi	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 6.3.1/2 AND PICS 6.3.2/2	24	
Test Purpose name	PUBLISH with m=BS and PIDF	basic status "closed" is interw	orked into CCBS SUSPEND
Test Purpose	Ensure that on receipt of a PUE	BLISH request and a m parame	eter is present in the Request
	line is set to 'BS' the Event hea	der field contains the value 'pre	esence', and a PIDF XML
	MIME body is present the prese	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=I</request>	3S	
	Event: presence		
	Content-Type: application/pidf+xml		
	xml version="1.0" encoding="UTF-8"?		
	<pre><pre><pre><pre></pre></pre></pre></pre>		
	<status></status>		
	    databo        		
Comments	Note the XML semantic is sche	matically the alias is not consider	dered
Message flows	Mg	MGCF	SCCP
	Invoke a successful CCBS request and remote user is now free		
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)
	200 OK (PUBLISH)	-	(1.702) (1.000)
	· · · · · · · · · · · · · · · · · · ·		
	Apply post test routine		

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

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

TP number	TP 408 014	Reference	7.5.11.1,	
Ti Hamber	11 _400_014	TKCTCTCTTCC	table 7.5.11.1.2	
T00 (	11.40.00/00/		table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	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	BLISH request and a m parame	eter is present in the Request	
	line is set to 'NR' the Event hea	der field contains the value 'pr	esence' and a PIDF XML	
	MIME body is present the 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=NR</request>			
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	d		
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Invoke a successful CCNR request and remote user is now free			
	PUBLISH → (X)UDT (TC-Cont)			
	200 OK (PUBLISH)			
	Apply post test routine			
	Apply post test routine			

TP number	TP_408_015	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "closed" is interv	vorked into CCBS SUSPEND	
Test Purpose	Ensure that on receipt of a PUE			
	'presence', a Call-Info header v			
	parameter set to 'NR' and a PII			
	'closed', a SCCP UDT or XUDT	is sent containing a TC-Cont	CCBS SUSPEND Data field	
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	d		
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Invoke a successful CCNR request and remote user is now free			
	PUBLISH → (X)UDT (TC-Cont)			
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP 408 016	Reference	7.5.11.1,	
	11 _ 100_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 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR and PIDF	basic status "open" is interwo	orked into CCBS RESUME	
Test Purpose	Ensure that on receipt of a PUE			
	line is set to 'NR' the Event hea	der field contains the value 'pr	esence' and a PIDF XML	
	MIME body is present the present	ence status set to 'open', a SC	CP UDT or XUDT is sent	
	containing a TC-Cont CCBS RI			
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">; m=NR</request>			
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open-</basic>			
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	Mg	MGCF	SCCP	
	Successful CCNR reques	t and remote user is free orig	ginating user suspended	
	PUBLISH →	<b>→</b>	(X)UDT (TC-Cont)	
	200 OK (PUBLISH)			
	· · · · · · · · · · · · · · · · · · ·			
	Apply post test routine			

TP number	TP_408_017	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=NR and PIDE	basic status "open" is interwo	orked into CCBS RESUME		
Test Purpose	Ensure that on receipt of a PUE				
	'presence' a Call-Info header w				
	parameter set to 'NR' and a PII				
	'open', a SCCP UDT or XUDT	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				
	<pre><?xml version="1.0" encoding="UTF-8"?></pre>				
	<pre><pre><pre><pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>open</basic>				
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	Mg MGCF SCCP				
	Successful CCNR request and remote user is free originating user suspended				
	PUBLISH → (X)UDT (TC-Cont)				
	200 OK (PUBLISH) ←				
		Apply post test routine			

TP number	TD 400 040	Reference	7 5 44 4	
i F number	TP_408_018	Reference	7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	SUBSCRIBE with m=BS and E	xpires header set to '0' is inter-	worked into CCBS CANCEL	
Test Purpose	Ensure that on receipt of a SUI			
	Request line is set to 'BS' and	Event header field contains the	value 'call-completion' and a	
	Call-Info header with purpose p			
	and a Expires header set to '0',			
	CANCEL Data field		3	
TCAP Parameter values	TC-End: CCBS CANCEL			
SIP Parameter values	SUBSCRIBE: <request uri="">; m=BS</request>			
	Event:call-completion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	Expires: 0			
Comments				
Message flows	Mg	MGCF	SCCP	
	A CCBS is successfully invoked			
	SUBSCRIBE →	<b>→</b>	(X)UDT (TC-End)	
	202 Accepted			
	Apply post test routine			

TP number	TP_408_019	Reference	7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	SUBSCRIBE with m=NR and E	xpires header set to '0' is inter	worked into CCBS CANCEL		
Test Purpose	Ensure that on receipt of a SUI	SSCRIBE 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,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/		•		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	TC-Cont CCBS REQUEST (represent	turn result) is interworked into	NOTIFY cc-service-retention		
Test Purpose	Ensure that on receipt of a UDT or XUDT containing a TC-Cont CCBS REQUEST (return result) Data field and the RetainSupported element is set to TRUE, a NOTIFY request is sent and the cc-state body is set to 'queued' the cc-service-retention body is set to 'true'				
TCAP Parameter values	TC-Cont: CCBS REQUEST (return result) RetainSupported=TRUE				
SIP Parameter values	NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: queued cc-service-retention: true				
Comments					
Message flows	Mg SUBSCRIBE 202 Accepted  NOTIFY 200 OK (NOTIFY)  →		SCCP (X)UDT (TC-Begin)  (X)UDT (TC-Cont)		
	Apply post test routine				

TP number	TP_408_021	Reference	7.5.11.1,			
			table 7.5.11.1.3			
TSS reference	IMS-SS/CC/	•	•			
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/24				
Test Purpose name	TC-Cont CCBS REQUI	EST (return result) is interwor	ked into NOTIFY cc-service-retention			
-	not present	,				
Test Purpose			a TC-Cont CCBS REQUEST (return			
	result) Data field and th	ne RetainSupported element i	s set to FALSE, a NOTIFY request is			
	sent and the cc-state b	ody is set to 'queued' a cc-se	rvice-retention body is not present			
TCAP Parameter values	TC-Cont: CCBS REQU	JEST (return result)				
	RetainSu	RetainSupported=FALSE				
SIP Parameter values	NOTIFY: Event: call-c	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion					
	cc-state: queued					
Comments						
Message flows	Mg	MGCF	SCCP			
	SUBSCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)			
	202 Accepted ←					
	NOTIFY ← (X)UDT (TC-Cont)					
	200 OK (NOTIFY) →					
	Apply post test routine					

TP number	TP_408_022	Reference	7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	CCBS Return error TC-End Sh	ortTermDenial received, 480 T	Temporarily Unavailable		
	response to SUBCRIBE				
Test Purpose	Ensure that on receipt of a UD				
	error) component in the Data fi	eld set to 'ShortTermDenial', a	480 Temporarily Unavailable		
	final response to the SUBCRIB	E CCBS request is sent			
TCAP Parameter values	TC Begin	TC Begin			
	CCBS REQUEST invoke				
	TC-End CCBS REQUEST (Return error)				
	ShortTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=BS			
	Event: call-comp	letion			
Comments					
Message flows	Mg	MGCF	SCCP		
	SUBCRIBE	<b>→</b>	→ (X)UDT (TC-Begin)		
	480 Temporarily Unavailable	<b>←</b>	★ (X)UDT (TC-End)		
	Apply post test routine				

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

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

TP number	TP_408_025	Reference	7.5.11.1,
			table 7.5.11.1.3
TSS reference	IMS-SS/CC/	•	•
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24	
Test Purpose name	CCNR Return error TO response to SUBCRIB		ived, 403 Forbidden unavailable
Test Purpose		e Data field set to 'LongTerr	ng a TC-End CCNR REQUEST (Return nDenial', a 403 Forbidden final response
TCAP Parameter values	TC Begin CCNR REQUEST TC-End CCNR REQUI		
SIP Parameter values	SUBSCRIBE: <reque Event: c</reque 	st URI>, m=NR all-completion	
Comments		·	
Message flows	Mg SUBSCRIBE 403 Forbidden	M( → ← Apply post test	GCF SCCP  → (X)UDT (TC-Begin)  ← (X)UDT (TC-End)  routine

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

TP number	TP_408_027	Reference	7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	TC-End CCBS CANCEL received	ved after CCNR was successfu	Illy invoked		
Test Purpose	CCNR was successfully invoke to 'NR' in the Request line and	Ensure that on receipt of an UDT or XUDT containing a TC-End CCBS CANCEL after a CCNR was successfully invoked, a NOTIFY request is sent containing a m parameter set to 'NR' in the Request line and a Subscription-State header set to 'terminated ' and the subexp-params <b>reason</b> set to 'noresource'			
TCAP Parameter values	TC-End CCBS CANCEL				
SIP Parameter values	NOTIFY: <request uri=""> Event:call-completion Subscription-State: terminated; reason=noresource</request>				
Comments	•				
Message flows	NOTIFY <b>←</b>	-	SCCP ked (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/		table 7.5.11.1.3	
		2.0/04		
Selection criteria	PICS 6.3.1/2 AND PICS 6.	*:==:		
Test Purpose name		er free indication at the I-MGCF		
Test Purpose	Ensure that on receipt of a	UDT or XUDT containing a TC-C	ont REMOTE USER FREE	
	invoke component in the D	ata field, a NOTIFY request is ser	nt and a cc-state body is	
	present set to 'ready'	,	,	
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	Mg	MGCF	SCCP	
	CCNR request successfully invoked			
	NOTIFY ← (X)UDT (TC-Cont)			
	200 OK (NOTIFY)	<b>→</b>	, , , ,	
	Apply post test routine			

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

TP number	TP 408 030	Reference	7.5.11.2,		
			table 7.5.11.2.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Mapping of CCNR possible ind	ication in a 180 into the CCNR	possible indicator in the CPG		
Test Purpose	Ensure that on receipt of a 180	Ringing provisional response	and a Call-Info header is		
	present set to the URI of the te	rminating user and a purpose p	parameter set to		
	'call-completion' and m parame	ter ser to 'NR', a CPG is sent i	f an ACM was sent before		
	and a CCNR possible indicator	Parameter is present set to 'C	CNR possible'		
ISUP Parameter values	IAM: Called party number				
	Number digits				
	ACM: Called party status				
	No indication				
	CPG: Event indication				
	Alerting				
	CCNR possible indicate	r			
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>rty number digits&gt;;purpose=ca</th><th>all-completion</th></sip:called>	rty number digits>;purpose=ca	all-completion		
Comments					
Message flows	ISUP	MGCF	Mg		
	IAM → S	Start Ti/w2			
	ACM(no indication) ←	Γimeout Ti/w2 →	INVITE		
	CPG(Alerting) ←	<b>←</b>	180 Ringing		
	Apply post test routine				

TP number	TP_408_031	Reference	7.5.11.2,	
			table 7.5.11.2.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	486 with Call-Info header is ma	pped into REL cause 17 and 0	CCBS possible	
Test Purpose	Ensure that on receipt of a 486	Busy Here and a Call-Info hea	ader is present set to the URI	
	of the terminating user and a p	urpose parameter set to 'call-c	ompletion' and m parameter	
	ser to 'BS', a REL message is s	sent and the Cause value is se	t to 17 or 34 the Diagnostics	
	is set to 'CCBS possible'			
ISUP Parameter values	REL: Cause indicator			
	Cause=17 or 34			
	Diagnostics= CCBS possible			
SIP Parameter values	486: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion</sip:called>			
Comments				
Message flows	ISUP	MGCF	Mg	
	IAM →	<b>→</b>	INVITE	
	REL ←	<b>←</b>	486 Busy Here	
	RLC →	<b>→</b>	ACK	
	Apply post test routine			

TP number	TP_408_0	32	Reference		7.5.11.2,
					table 7.5.11.2.1
TSS reference	IMS-SS/C	C/			
Selection criteria	PICS 6.3.1	I/2 AND PICS 6.3.2	/24		
Test Purpose name	CCSS call	indicator in IAM is	mapped into the m pa	arameter i	in the Request line in the sent
Test Purpose	'CCSS cal	Ensure that on receipt of an IAM and a CCSS call indicator parameter is present set to 'CCSS call', an INVITE request is sent and the Request line contains a m parameter set to 'NR' or 'BS'			
ISUP Parameter values	IAM: CC	SS call indicator CCSS call			
SIP Parameter values		<request uri="">;m= Call-Info: <sip:calle NR</sip:calle </request>	,	s>;purpos	se=call-completion; m=BS or
Comments					
Message flows	IS	SUP	MGCF		Mg
_	IAM	<b>→</b>		<b>→</b>	INVITE
				<b>←</b>	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 6.3.1/2 AND PICS 6.3.2/2	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	Γ or XUDT containing a TC-Be	gin CCBS REQUEST	
	(invoke) component, a SUBSC			
	Identity header are derived from			
	is derived from the CCBS REQ			
	'call-completion' the Request lir	ne contains the m parameter se	et to 'BS'	
TCAP Parameter values	TC-Begin			
	CCBS REQUEST invoke			
	CalledPartyNumber			
	CallingPartyNumber			
	retainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>			
		rom the CCBS REQUEST Cal		
		n the CCBS REQUEST Called		
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>			
	CallingPartyNumber >			
	Event: call-comp			
	Expires: <any th="" va<=""><th>lue&gt;</th><th></th></any>	lue>		
Comments				
Message flows	SCCP	MGCF	Mg	
	(X)UDT(TC-Begin) →	<b>→</b>	SUBSCRIBE	
		<b>←</b>	202 Accepted	
		Apply post test routine		

TP number	TP_408_034	Reference	7.5.11.2,		
	11 _400_004	Kolololloo	table 7.5.11.2.2		
TSS reference	IMS-SS/CC/		table 7.3.11.2.2		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/2.4			
			OIDE 1: 1 OOND		
Test Purpose name	TC-Begin CCNR REQUEST (				
Test Purpose	Ensure that on receipt of a UD				
	(invoke) component, a SUBS0	CRIBE request is sent and the	From and the P-Asserted-		
			ngPartyNumber the To header		
	is derived from the CCNR RE				
	'call-completion' the Request I	ine contains the m parameter	set to 'NR'		
TCAP Parameter values	TC-Begin				
	CCNR REQUEST invoke				
	CalledPartyNumber				
	CallingPartyNumber				
	retainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <request uri=""></request>	. m=NR			
		from the CCNR REQUEST C	allingPartvNumber >		
	To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>				
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>				
	CallingPartyNumber >				
	Event: call-completion Expires: <any value=""></any>				
Comments	Event: dan dem	Expired: \	arry varace		
	SCCP	MGCF	Ma		
Message flows			Mg		
	(X)UDT(TC-Begin) →	<b>→</b>	SUBSCRIBE		
	← 202 Accepted				
	Apply post test routine				

TP number	TP_408_035	Reference	7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-Cont CCBS SUSPEND is in "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=BS or ;m=NR</request>			
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>closed</basic>			
Comments	Note the XML semantic is 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,		
ii iidiibei	11 _400_030		table 7.5.11.2.2		
TSS reference	IMC CC/CC/		table 7.5.11.2.2		
	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/				
Test Purpose name	TC-Cont CCBS RESUME is in	terworked into PUBLISH with I	m=NR and PIDF basic status		
	"open"				
Test Purpose	CCBS or CCNR is invoked and	I the remote user is free the or	riginating user is suspended.		
	Ensure that on receipt of a TC-	Cont CCBS SUSPEND invoke	e component, a PUBLISH		
	request is sent containing the r	n parameter in the Request U	RI set to 'BS' or 'NR' the Event		
	header set to 'presence' and a				
	'open'	, ,	, ,		
TCAP Parameter values	TC-Cont				
	CCBS RESUME				
SIP Parameter values	PUBLISH: <reguest uri="">;m='BS' or ;m=NR</reguest>				
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	9 -			
	<status></status>				
	<basic>open</basic>				
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	SCCP	MGCF	Mg		
3	Successful CCBS/CCNR request and originating user suspended				
	(X)UDT(TC-Cont) →	→	PUBLISH		
	(X)0DT(TC-COIII)				
		=	200 OK (1 OBLISH)		
	Apply post test routine				

TP number	TP_408_037	Reference	7.5.11.2,
			table 7.5.11.2.2
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/24		
Test Purpose name	TC-End CCBS CANCEL is int	erworked into SUBSCRIBE with	n m=BS or NR and Expires
	header set to '0'		
Test Purpose		ully invoked. Ensure that on rec	
	containing a TC-End CCBS C	ANCEL Data field, a SUBSCRII	BE request is sent and a m
	parameter is present in the Re	equest URI set to 'BS' or 'NR the	e Event header field is set to
	call-completion and the Expir	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) →	<b>→</b>	SUBSCRIBE
	·	<b>←</b>	202 Accepted
	Apply post test routine		

TP number	TP_408_038	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/		·	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name			on 'true' is mapped into a TC-Cont	
		ırn result) retain supported		
Test Purpose			ent header field is set to 'call-completion'	
	the cc-state body is set	t to 'queued' and the cc-serv	ice-retention body is set to 'true', a	
			result) component is present the	
	RetainSupported eleme	ent is set to 'TRUE'		
TCAP Parameter values	TC-Cont: CCBS REQ	UEST (return result)		
	RetainSupported=TRUE			
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
	cc-service-retention: true			
Comments				
Message flows	SCCP	MGCF	Mg	
_	CCBS request already invoked			
	(X)UDT (TC-Cont)	<b>←</b>	← NOTIFY	
	→ 200 OK (NOTIFY)			
	Apply post test routine			

TP number	TP_408_039	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/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	turn result) retain not supporte	d		
Test Purpose			r field is set to 'call-completion'		
		eued' and the cc-service-retenti			
		S REQUEST (return result) com	nponent is present the		
	RetainSupported element is se	et to 'FALSE'			
TCAP Parameter values	TC-Cont: CCBS REQUEST (return result)				
	RetainSupported=FALSE				
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
Comments					
Message flows	SCCP	MGCF	Mg		
	CCBS request already invoked				
	(X)UDT (TC-Cont) ←	<b>←</b>	NOTIFY		
	→ 200 OK (NOTIFY)				
	Apply post test routine				

TP number	TP 408 040	Reference	7.5.11.2,	
ir number	17_400_040	Keierence	,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/24		
Test Purpose name	A NOTIFY cc-state 'que	eued' and cc-service-retention	n 'true' is mapped into a TC-Cont	
	CCNR REQUEST (retu	ırn result) retain supported		
Test Purpose	Ensure that on receipt	of a NOTIFY request the Eve	nt header field is set to 'call-completion'	
	the cc-state body is set	to 'queued' and the cc-service	ce-retention body is set to 'true', a	
	TC-Cont is sent and the	e CCNR REQUEST (return re	esult) component is present the	
	RetainSupported eleme	ent is set to 'TRUE'		
TCAP Parameter values	TC-Cont: CCNR REQ	UEST (return result)		
	RetainSupported=TRUE			
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
	cc-service-retention: true			
Comments				
Message flows	SCCP	MGCF	Mg	
	CCNR request already invoked			
	(X)UDT (TC-Cont)	<b>+</b>	← NOTIFY	
	, , , , , ,		→ 200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_408_041	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/24		
Test Purpose name	A NOTIFY cc-state 'que	ued' and cc-service-retention	'true' is mapped into a TC-Cont	
_	CCNR REQUEST (retur	n result) retain not supported		
Test Purpose			header field is set to 'call-completion'	
			-retention body is not present, a	
	TC-Cont is sent and the	CCNR REQUEST (return res	ult) component is present the	
	RetainSupported elemen	nt is set to 'FALSE'		
TCAP Parameter values	TC-Cont: CCNR REQUEST (return result)			
	RetainSupported=FALSE			
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
Comments				
Message flows	SCCP	MGCF	Mg	
	CCNR request already invoked			
	(X)UDT (TC-Cont) ← NOTIFY			
	→ 200 OK (NOTIFY)			
		Apply post test routine		

TP number	TP_408_042	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24			
Test Purpose name	CCBS request unsucc	essful 480 Temporarily Una	available 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 Elem	ShortTermDenial Element is sent			
TCAP Parameter values	TC-End CCBS REQUEST (Return error) ShortTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">, m=BS</request>				
	Event: call-completion				
Comments					
Message flows	SCCP	MGCF	Mg		
	(X)UDT (TC-Begin)	<b>→</b>	→ SUBCRIBE		
	(X)UDT (TC-End)	<b>←</b>	<ul> <li>480 Temporarily Unavailable</li> </ul>		
	Apply post test routine				

TP number	TP_408_043	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/	•	·		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/24			
Test Purpose name	CCNR request unsucc	cessful 480 Temporarily Unav	vailable 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				
TOAR Bearing to a contract	ShortTermDenial Eler				
TCAP Parameter values	TC-End CCNR REQUEST (Return error)  ShortTermDenial				
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>				
	Event: call-completion				
Comments					
Message flows	SCCP	MGCF	Mg		
	(X)UDT (TC-Begin)	<b>→</b>	→ SUBCRIBE		
	(X)UDT (TC-End)	<b>←</b>	<ul> <li>480 Temporarily Unavailable</li> </ul>		
	Apply post test routine				

TP number	TP_408_044	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24		
Test Purpose name	CCBS request unsuccessful 40	3 Forbidden is received		
Test Purpose	Ensure that on receipt of a 403			
	TC-End CCBS REQUEST (Re	turn error) component contai	ning the LongTermDenial	
	Element is sent			
TCAP Parameter values	TC-End CCBS REQUEST (Re	TC-End CCBS REQUEST (Return error)		
	LongTermDenial			
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) ←	<b>←</b> 4	403 Forbidden	
	Apply post test routine			

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

TP number	TP 408 046	Reference	7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24			
Test Purpose name	CCBS invoked. SUBC	RIBE Expires 0 received TC-E	ind is sent		
Test Purpose	'terminated' and the su	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params <b>reason</b> set to 'noresource' upon CCBS was successfully invoked, a TC-End message is sent containing the CCBS CANCEL			
	component	3	ŭ		
TCAP Parameter values	TC-End CCBS CANCEL				
SIP Parameter values	NOTIFY: <request uri=""></request>				
	Event:call-completion				
	Subscription-State: terminated; reason=noresource				
Comments					
Message flows	SCCP	MGCF	Mg		
	CCBS request successfully invoked				
	(X)UDT (TC-End)	<b>←</b>	← NOTIFY		
			→ 200 OK NOTIFY		
	Apply post test routine				

TP number	TP_408_047	Reference	7.5.11.2,
			table 7.5.11.2.3
TSS reference	IMS-SS/CC/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24	
Test Purpose name	CCNR invoked at the O-MGCF	SUBCRIBE Expires 0 receive	d TC-End is sent
Test Purpose	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to		
	'terminated' and the subexp-pa		
	successfully invoked, a TC-End	d message is sent containing t	he CCBS CANCEL
	component		
TCAP Parameter values	TC-End		
	CCBS CANCEL		
SIP Parameter values	NOTIFY: <request uri=""></request>		
	Event:call-completion		
	Subscription-State: terminated; reason=noresource		
Comments			
Message flows	SCCP	MGCF	Mg
	CCNR request successfully invoked		
	(X)UDT (TC-End) ←	<b>+</b>	NOTIFY
		<b>→</b>	200 OK NOTIFY
	Apply post test routine		

TP number	TP_408_048	Reference	7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PI	CS 6.3.2/24		
Test Purpose name	Interworking of Remo	te user free indication at the C	)-MGCF	
Test Purpose		Ensure that on receipt of a NOTIFY request the cc-state body is set to 'ready' upon Call		
	completion was succe	essfully invoked, a TC-Cont m	essage is sent containing the CCBS	
	REMOTE USER FRE	E 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 successfully invoked			
	(X)UDT (TC-Cont)	<b>←</b>	← NOTIFY	
			→ 200 OK (NOTIFY)	
	Apply post test routine			

## 6.3.9 Communication Waiting (CW)

TP number	TP_409_001	Reference	7.5.12		
TSS reference	IMS-SS/CW/	IMS-SS/CW/			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/8			
Test Purpose name	Mapping of Generic no	otification 'call waiting' in ar	ACM into Alert-Info header		
Test Purpose	Ensure that on receipt	Ensure that on receipt of an ACM the Called party status indicator is set to 'subscriber free'			
	and a Generic notificat	and a Generic notification indicator parameter is present set to "Call is a waiting call", a 180			
	Ringing is sent. An Ale	ert-Info header is present a	nd the urn is set to		
	'urn:alert:service:call-w	aiting'			
ISUP Parameter values	ACM: Backward call i	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	MGCF	ISU	JP	
	INVITE	<b>→</b>	→ 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 6.3.1/2 AND PICS	6.3.2/8		
Test Purpose name	Mapping of Generic notifi	ication 'call waiting' in a CP	PG into Alert-Info header	
Test Purpose	Ensure that on receipt of a CPG the Event indicator is set to 'Alerting' and a Generic notification indicator parameter is present set to "Call is a waiting call," a 180 Ringing is sent. An Alert-Info header is present and the urn is set to 'urn:alert:service:call-waiting'			
ISUP Parameter values	CPG: Event indicator  Alerting  Generic notification  Call is a waiting call			
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting			
Comments		•		
Message flows	Mg 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/	IMS-SS/CW/			
Selection criteria	PICS 6.3.1/2 AND	PICS 6.3.2/8			
Test Purpose name	Interworking of the ACM	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in an ACM			
Test Purpose	Ensure that on receipt of a 180 Ringing and an Alert Info header is present the value is set to 'urn:alert:service:call-waiting', an ACM is sent containing a Generic notification indication parameter set to 'Call is a waiting call'				
ISUP Parameter values	ACM: Backward call indicator Called party status indicator Subscriber free Generic notification Call is a waiting call				
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting				
Comments		-			
Message flows	Mg IAM ACM Apply post test re	MGCF → ← outine	<b>→</b> ←	ISUP INVITE 100 Trying 180 Ringing	

TP number	TP_409_004	Reference		7.5.12	
TSS reference	IMS-SS/CW/	•			
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/8			
Test Purpose name	Interworking of the CPG	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a CPG			
Test Purpose	to 'urn:alert:servi	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	Alertin Generic n	CPG: Event indicator     Alerting     Generic notification     Call is a waiting call			
SIP Parameter values	180: Alert-Info urn:ale	180: Alert-Info urn:alert:service:call-waiting			
Comments		<u> </u>			
Message flows	Mg IAM ACM CPG Apply post test	MGCF → T i/w2 expired	→ IN ← 10	UP VITE 10 Trying 10 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
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