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Core Network and Interoperability Testing (INT);
Conformance tests;
(3GPP™ Release 10);
Interworking between SIP-I based circuit-switched core network and other networks;
Part 2: SIP-I/SIP NNI
Test Suite Structure and Test Purposes (TSS&TP)

Reference RTS/INT-00157-2

Keywords

SIP, SIP-I, testing, TSS&TP

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Foreword

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

The present document is part 2 of a multi-part deliverable covering SIP NNI - SIP-I Interworking described in the clauses 7.2 and 7.3 of ETSI TS 129 235 [1] (Release 10), as identified below:

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

Part 2: "SIP-I/SIP NNI Test Suite Structure and Test Purposes (TSS&TP)".

Modal verbs terminology

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1 Scope

The present document specifies the Test Suite Structure and Test Purposes for SIP - SIP-I Interworking described in the clauses 7.2 and 7.3 of ETSI TS 129 235 [1] (Release 10).

2 References

2.1 Normative references

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

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

[1]	ETSI TS 129 235 (V10.1.0): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between SIP-I based circuit-
	switched core network and other networks (3GPP TS 29.235 version 10.1.0 Release 10)".
[2]	ETSI TS 129 163: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the IP Multimedia

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)".

[3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[4] Recommendation ITU-T T.38: "Procedures for real-time Group 3 facsimile communication over IP networks".

[5] Void.

[6] ETSI TS 101 572-1: "Core Network and Interoperability Testing (INT); Conformance tests; (3GPP Release 10); Interworking between SIP-I based circuit-switched core network and other networks; Part 1: Protocol Implementation Conformance Statement (PICS)".

[7] Recommendation ITU-T Q.735.1 (03/1993): "Stage 3 description for community of interest supplementary services using Signalling System No. 7 : Closed user group (CUG)".

2.2 Informative references

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

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

[i.2] IETF RFC 5079: "Rejecting Anonymous Requests in the Session Initiation Protocol (SIP)".

[i.3] Recommendation ITU-T Q.850: "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 129 235 [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].

3.2 Symbols

For the purposes of the present document, the symbols given in ETSI TS 129 235 [1] apply.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 129 235 [1] and the following apply:

ACM Address Complete Message
IAM Initial Address Message
IUT Implementation Under Test
oBCI optional Backward Call Indicator

REL RELease message
SUT System Under Test
TP Test Purpose

4 Test Suite Structure (TSS)

The Test Suite Structure is in close alignment with ETSI TS 129 235 [1] and ETSI TS 129 163 [2].

SIP NNI -SIP-I			
	Basic call	Sending_of_INVITE (IAM)	TP_101_xxx
		· · · · · ·	TP 102 xxx
			TP 103 xxx
			TP 104 xxx
			TP 105 xxx
			TP 106 xxx
			TP 107 xxx

SIP-I -SIP NNI			
	Basic call	Sending_of_INVITE	TP_201_xxx
			TP_202_xxx
			TP_203_xxx
			TP_204_xxx
			TP_205_xxx
			TP_206_xxx
			TP_207_xxx
			TP_208_xxx
			TP_209_xxx
			TP 211 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/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/MLPP	TP 314 xxx
	PSTN-SS/GVNS	TP 315 xxx
	PSTN-SS/REV	TP 316 xxx

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

5 Test Purposes (TP)

5.1 Introduction

5.1.1 TP naming convention

For each requirement in ETSI TS 129 163 [2] a TP is defined.

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

Table 5.1.1-1: TP identifier naming convention scheme

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

5.1.2 Test strategy

As the base standard ETSI TS 129 235 [1] and ETSI TS 129 163 [2] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification ETSI TS 101 572-1 [6]. 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 except stated explicitly.

6 Test purposes (TP)

6.1 SIP NNI -SIP-I protocol interworking

6.1.1 Signalling Interworking of a Call from the IP Multimedia Subsystem towards the SIP-I based circuit-switched core network

6.1.1.1 Sending of INVITE (IAM)

TP number	TP_101_001	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic ca	all/Sending_of_ SIP-INVITE	request/
Selection criteria			
Test Purpose name	Sending of SIP-INVITE	request	
Test Purpose	Ensure that on reception	n of a SIP-INVITE requestir	ng a session, the I-MGCF sends a
	SIP-INVITE request with	n encapsulated IAM messa	ge
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	← 100 Trying
	J - 2	Apply post test i	outine

TP number	TP_101_002	Reference	[1], clause 7.2.4 [2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding of SIP-INVITE request/	
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.		
Test Purpose name		ted in the Supported header	
Test Purpose		s procedure is successful if the	support of Precondition is
·	indicated in the Supported he The Nature of connection inc circuit' or 'continuity check re	eader. The INVITE with encaps licator is set to 'continuity check quired'. After the UPDATE was	ulated IAM is immediately sent. performed on a previous received, a UPDATE is sent
ISUP Parameter values	IAM: Nature of connection in 'continuity check required'	dicator = 'continuity check perfo	ormed on a previous circuit' or
SIP Parameter values	INVITE:		
		al none	
	183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv		
	UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv		
	200 OK LIDDATE		
	200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv		
Comments			
Message flows	100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE	MGCF	SIP-I INVITE (IAM) 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)

TP number	TP_101_003	Reference	[1], clause 7.2.4 [2], clause 7.2.3.1.1	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SIP-INVITE reques		
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/		•	
Test Purpose name	Preconditions support indicate			
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is indicated in the Supported header. The INVITE with encapsulated 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 indi	cator = 'continuity check is r	ot 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			
	183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv			
	UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv			
200 OK 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 SIP NNI MGCF SIP-I				
message nows	INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)	-		

TP number	TP_101_006	Reference	[1], clause 7.2.4		
T00 (OLD VIVI. OLD I/D : II/O	I COLD IN VITE	[2], clause 73.3.1.1		
TSS reference		nding_of_SIP-INVITE request/			
Selection criteria		/1 AND PICS 6.2.1/2; BICC sup			
Test Purpose name		ed in the Supported header COT			
Test Purpose		procedure is successful if the s			
	indicated in the Supported header. The internal ISUP Continuity check procedure is not				
	supported. The INVITE with encapsulated IAM is immediately sent. The Nature of connection indicator is set to 'COT to be expected'. After the UPDATE was received, an				
	UPDATE is sent	COT to be expected. After the t	JPDATE was received, an		
ISUP Parameter values		dicator = 'COT to be expected'			
SIP Parameter values	INVITE:	dicator - COT to be expected			
On Tarameter values	Supported: precondition, 100	rel			
	SDP a=curr:qos loca				
	a=curr:qos rem				
		ndatory local sendrecv			
		e remote sendrecv			
	·				
	183: Require: 100rel				
	SDP a=curr:qos loca	al none			
	a=curr:qos rem				
		ndatory local sendrecv			
a=des:qos mandatory remote sendrecv					
	a=conf:qos remote sendrecv				
	LIDDATE				
	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				
	200 OK UPDATE				
	SDP a=curr:gos loca	al sendrecv			
	a=curr:qos rem				
		ndatory local sendrecv			
	a=des:qos mandatory remote sendrecv				
Comments	Comments				
Message flows	SIP NNI	MGCF	SIP-I		
		→	INVITE (IAM)		
	1	+	100 Trying		
	3	+	183 Session Progress		
		>	PRACK		
		-	200 OK (PRACK)		
		→	UPDATE		
	200 OK (UPDATE)	← ←	200 OK (UPDATE)		
	Apply post test routine				

TP number	TP_101_007	Reference	[1], clause 7.2.4 [2], clause 7.3.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SIP-INVITE request			
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2				
Test Purpose name	Preconditions support indicated in the Supported header				
Test Purpose	Ensure that the Preconditions procedure is successful if the support of Precondition is				
	indicated in the Supported header. The INVITE with encapsulated 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 indi	cator = 'no COT to be expec	ted'		
SIP Parameter values	INVITE:				
	Supported: precondition, 100re				
	SDP a=curr:qos local				
	a=curr:qos remo				
	·	latory local sendrecv			
	a=des:qos none	remote sendrecv			
	193. Doguiro, 100rol				
	183: Require: 100rel SDP a=curr:qos local	nono			
	a=curr:qos remo				
		latory local sendrecv			
		latory remote sendrecv			
	a=conf:qos remo				
	'				
	UPDATE:				
	SDP a=curr:qos local sendrecv				
	a=curr:qos remo				
	a=des:qos mandatory local sendrecv				
	a=des:qos mandatory remote sendrecv				
	200 OK UPDATE				
	SDP a=curr:qos local	sendrecy			
	a=curr:qos remo				
		atory local sendrecv			
		atory remote sendrecv			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
_	INVITE →				
	100 Trying ←				
	183 Session Progress ←				
	PRACK →				
	200 OK (PRACK) ←				
	UPDATÈ →	→	INVITE (IAM)		
	200 OK (UPDATE) ←				
		Apply post test routine			

TP number	TP_101_007A	Reference	[1], clause 7.2.4		
TCC votovovo	CID NINI CID I/Dania anii/Cana	line of CID INIVITE requirest/	[2], clause 7.3.3.1.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send				
Selection criteria	PICS 6.2.1/1 AND PICS 6.2.1/2				
Test Purpose name	Preconditions fulfilled indicated				
Test Purpose	Ensure that Preconditions are t				
	request. The INVITE with enca	psulated IAM) is sent. The Nat	ure of connection indicator is		
	set to 'no COT to be expected'				
ISUP Parameter values	IAM: Nature of connection indi	cator = 'continuity check is not	required'		
	or				
	IAM: Nature of connection indi	cator = 'no COT to be expected	<u>''</u>		
SIP Parameter values	INVITE:				
	Supported: precondition, 100re				
	SDP a=curr:qos local	sendrecv			
	a=curr:qos remo				
		atory local sendrecv			
	a=des:qos none	remote sendrecv			
	180				
	SDP a=curr:qos local sendrecv				
	a=curr:gos remote sendrecv				
	a=des:gos mand	atory local sendrecv			
	a=des:qos mandatory remote sendrecv				
Comments		-			
Message flows	SIP NNI MGCF SIP-I				
_	INVITE →	→	INVITE (IAM)		
	180 Ringing ←	←	180 Ringing (ACM)		
	PRACK →	→	PRACK		
	200 OK (PRACK) ←	+	200 OK (PRACK)		
		Apply post test routine			

TP number	TP_101_010	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.1	
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_SIP-INVITE request/		
Selection criteria				
Test Purpose name	Unsupported media type is re	ejected 488 is sent		
Test Purpose	Ensure that an unsupported i	media type is rejected a 488 No	t Acceptable Here final	
	response is sent to the calling	g user		
ISUP Parameter values				
SIP Parameter values	INVITE:			
	SDP: m= video 4713 RTF	P/AVP 31		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→		
	488 Not Acceptable Here	←		
	ACK	→		

TP number	TP_101_011	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request/	
Selection criteria			
Test Purpose name	Unsupported media type is reje	ected session successful	
Test Purpose	Ensure that an unsupported m		sends in the SDP answer the
	port number '0' for the concern	ed media type	
ISUP Parameter values			
SIP Parameter values	INVITE: SDP: m=audio 4711 RTP/ m= video 4713 RTP		
	180 Ringing or 183 Session Pr SDP: m=audio <appropria m=video 0 RTP/AVF</appropria 	ite Port #> RTP/AVP 8	
Comments			
Message flows	SIP NNI INVITE 100 Trying CASE A 180 Ringing		SIP-I INVITE (IAM) 180 Ringing (ACM)
	CASE B 183 Session Progress ←	← Apply post test routine	183 Session Progress (ACM)

TP number	TP 101 012	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_ SIP-INVITE reque	st/
Selection criteria			
Test Purpose name	Unsupported codec is desele	ected	
Test Purpose	Ensure that the SUT remove an unsupported codec	s a codec from the codec list	in the SDP answer if the codec is
ISUP Parameter values			
SIP Parameter values	INVITE: SDP: m=audio 4711 RT 180 Ringing or 183 Session SDP: m=audio <appropri< th=""><th></th><th>· 8</th></appropri<>		· 8
Comments			
Message flows		MGCF → ←	SIP-I → INVITE (IAM)
		←	← 180 Ringing (ACM)
	CASE B 183 Session Progress		€ 183 Session Progress (ACM)
		Apply post test routine	•

TP number	TP_101_013	Reference	[1], clause 7.2.1	
TCC materials	CID NINI CID I/Dania anll/Ca	nding of CID INV/ITE requires	[2], clause 7.2.3.1.1	
TSS reference	SIP NINI - SIP-I/Basic call/Se	nding_of_ SIP-INVITE request	1	
Selection criteria				
Test Purpose name	INVITE request without SDP			
Test Purpose		NVITE request without a SDP	offer, the SUT sends a SDP	
	offer in the first reliable non-f	ailure message		
ISUP Parameter values				
SIP Parameter values	INVITE:			
	Supported: 100rel			
	180 Ringing or 183 Session			
	SDP: m=audio 4711 RT	P/AVP 8		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→ →	INVITE (IAM)	
	100 Trying	←		
	CASE A			
	180 Ringing	(180 Ringing (ACM)	
		→	, ,	
	200 OK PRACK	(200 OK PRACK	
	CASE B			
	183 Session Progress	+ +	183 Session Progress	
	111111111111111111111111111111111111111	_	(ACM)	
	PRACK	→ →	PRACK	
	_	+ +	200 OK PRACK	
	200 0101 10 010	Apply post test routine	200 011 10 1011	
	Apply post test routine			

TP number	TP_101_014	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request/	
Selection criteria			
Test Purpose name	To header tag is sent in the first	st provisional response	
Test Purpose	Ensure that a To header tag is	contained in the first provisior	nal response
ISUP Parameter values			
SIP Parameter values	INVITE:		
	To: <uri></uri>		
	180 Ringing or 183 Session Pr	rogress: To: <uri>; <tag></tag></uri>	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	INVITE (IAM)
	100 Trying ←	•	, ,
	CASE A		
	180 Ringing ←	· •	180 Ringing (ACM)
			3 3 ()
	CASE B		
	183 Session Progress	•	183 Session Progress
			(ACM)
		Apply post test routine	,

TP number	TP_101_015	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ing_of_ SIP-INVITE request/		
Selection criteria				
Test Purpose name	Coding of called party number			
Test Purpose	 Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. In the encapsulated IAM In case of the 'CC' of the received INVITE request URI is equal to the country code in which the next hop terminates: remove 'CC' from the user info and send the remaining part as digits in the called party number. The nature of address indicator is set to 'National (Significant) number' In case of the 'CC' of the received INVITE request URI is not equal to the country code in which the next hop terminates: send the unchanged part of the request URI without '+' as digits in the called party number. The nature of address indicator is set to 'International number' The internal Network Number Indicator = 'routing to internal network number not allowed' Numbering Plan Indicator = 'ISDN (Telephony) numbering plan (Recommendation 			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

TP number	TP_101_016	Refer	ence		[1], clause 7.2.1
					[2], clause 7.2.3.1.2.1
TSS reference	SIP NNI - SIP-I/Basic	call/Sending_o	f_ SIP-INVITE re	equest/	
Selection criteria	PICS 6.2.1/21				
Test Purpose name	SendingCompleteIndid	cation is mappe	ed into a hex dig	it 'F' in t	he called party number
Test Purpose	Ensure that on receipt is sent as thelf the INV last digit in the called	/ITE with encap		oleteIndi	ication element a hex digit 'F'
ISUP Parameter values		-			
SIP Parameter values					
Comments					
Message flows	SIP NNI		MGCF		SIP-I
_	INVITE	→		→	INVITE (IAM)
	100 Trying	←			
	Apply post test routine				

TP number	TP_101_017	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.2	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ing_of_ SIP-INVITE request/		
Selection criteria	PICS 6.1.1/1			
Test Purpose name	Nature of connection indicator			
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received The nature of connection indicator in the encapsulated IAM is set Satellite indicator = 'no satellite circuit in the connection' Continuity check indicator = 'continuity check not required' or 'continuity check required' or 'continuity check performed on a previous circuit' Echo control device indicator TMR audio 3,1 kHz or speech = outgoing echo control device included TMR 64 kBit/s or HLC 'Facsimile Group 2/3' = 'outgoing echo control device not included'			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←		,	
	Apply post test routine			

TP number	TP 101 018	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2.2
TSS reference	SIP NNI - SIP-I/Basic c	all/Sending_of_ SIP-INVITE	request/
Selection criteria	PICS 6.1.1/2		
Test Purpose name	Nature of connection in	dicator	
Test Purpose	received. In the encaps Satellite indicator = 'n Continuity check indi	sulated IAM the nature of con no satellite circuit in the conn	ection' cted or 'COT to be expected'
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→	→ INVITE (IAM)
	100 Trying	←	. ,
		Apply post test r	outine

TP number	TP_101_019	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.3			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/				
Selection criteria	NOT PICS 6.2.1/5					
Test Purpose name	Forward Call indicator					
Test Purpose	Ensure that an INITE (IAM) is sent after an INVITE request was received. If no PSTN XML attachment is present and the TMR is set to audio, the Forward call indicator is coded as follows: • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available) • Interworking indicator = ('1') interworking encountered • End-to-end information indicator = ('0') no end-to-end information available • ISDN user part/BICC indicator = ('0') ISDN user part/BICC not used all the way • ISDN access indicator = ('0') originating access non-ISDN					
ISUP Parameter values	SCCP method indicator =					
SIP Parameter values						
Comments						
Message flows	SIP NNI	SIP NNI MGCF SIP-I				
	INVITE ->		INVITE (IAM)			
	100 Trying ←					
	Apply post test routine					

TP number	TP_101_020	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.3			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/				
Selection criteria	NOT PICS 6.2.1/5 AND NOT P	PICS 6.2.1/6				
Test Purpose name	Forward Call indicator					
Test Purpose	Ensure that an INVITE with end	capsulated IAM is sent after a	n INVITE request was			
	received. If no PSTN XML attach	chment is present and the TM	R 64 kBit/s has no impact of			
	the coding of the Forward call i	ndicator. The Forward call ind	icator is coded as follows:			
	 End-to-end method indicat method available) 	or = ('00') no end-to-end meth	nod available (only link-by-link			
	,	') interworking encountered				
		licator = ('0') no end-to-end inf	formation available			
		 ISDN user part/BICC indicator = ('0') ISDN user part/BICC 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 = (, ,				
ISUP Parameter values	- COOI MELITOR MAIOLET -	(00) no maioation				
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE ->					
	100 Trying	-	,			
	Apply post test routine					
L						

TP number	TP_101_021	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.3		
TSS reference	SIP NNI - SIP-I/Basic call/Send	SIP NNI - SIP-I/Basic call/Sending of SIP-INVITE request/			
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 INVITE with encapsulated IAM is sent after an INVITE request was received. If no PSTN XML attachment is present and the TMR 64 kBit/s has impact of the coding of the Forward call indicator, the Forward call indicator is coded as follows: • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available) • Interworking indicator = ('0') no interworking encountered • End-to-end information indicator = ('0') no end-to-end information available • ISDN user part/BICC indicator = ('1') ISDN user part/BICC used all the way • ISDN user part/BICC preference indicator = ('01') ISDN user part/BICC not required all the way • ISDN access indicator = ('1') originating access ISDN • SCCP method indicator = ('00') no indication				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP NNI MGCF SIP-I				
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

TP number	TP 101 022	Reference	[1], clause 7.2.1	
Tr Humber	11 _101_022	Kererenee	[2], clause 7.2.3.1.2.3	
TSS reference	SIP NNI - SIP-I/Basic call/Sending of SIP-INVITE request/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Forward Call indicator			
Test Purpose		Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was		
restruipose		received. If the PSTN XML attachment is present the ProgressIndicator value		
	ProgressDescription = 6, the Fe			
		or = ('00') no end-to-end meth		
	method available)		od avallable (offig liftk-by-liftk	
	,	') no interworking encountered	1	
		, licator = ('0') no end-to-end info		
		ator = ('1') ISDN user part/BIC		
			user part/BICC not required all	
	the way	(01)102111		
	,	1') originating access ISDN		
	SCCP method indicator =	, ,		
ISUP Parameter values	IAM: Forward call indicator	(• •) • • • • • • • • • • • • • • • •		
SIP Parameter values	INVITE:			
	PSTM XML MIME body			
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00	<		
	Location>yyyy<			
	ProgressOctet4			
	ProgressDescription>0000110<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE → INVITE (IAM)			
	100 Trying ←			
	Apply post test routine			

TP number	TP_101_023	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.4	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/		
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 =	IAM: Calling Party Category = ISUP CPC		
SIP Parameter values	INVITE: P-Asserted-Identity ;cpc= PARAM, / Accept-Language = SIP_LANG INVITE (IAM): P-Asserted-Identity			
Comments				
Message flows	SIP NNI MGCF SIP-I			
	INVITE ->	→	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

Table 6.1.1.1-1: Coding of calling party category

	Values for test purposes TP101032			
	SIP_CPC		ISUP_CPC	
VA	cpc received in a P-Asserted-Identity PARAM	Accept-Language SIP_LANG	Sent Calling party's category	
VA_01	operator	fr	operator, language French	
VA_02	operator	en	operator, language English	
VA_03	operator	de	operator, language German	
VA_04	operator	ru	operator, language Russian	
VA_05	operator	es	operator, language Spanish	
VA_06	ordinary		ordinary calling subscriber	
VA_07	test		test call	
VA_08	payphone		payphone	
VA_09	mobile-hplmn		mobile terminal located in the home PLMN	
VA_10	mobile-vplmn		mobile terminal located in a visited PLMN	
VA_11	unknown		calling party's category unknown at this time (national use)	
VA_12	emergency		emergency service call	

TP number	TP 101 024	Reference	[1], clause 7.2.1		
	1. = =		[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding of SIP-INVITE request/	11. 17		
Selection criteria	PICS 6.2.4/6				
Test Purpose name	G.177 μ-law: Coding of TMR				
Test Purpose	received. The Transmission M	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. The Transmission Medium Requirement parameter in the INVITE with encapsulated IAM is set to '3,1 kHz audio' derived from the codec PCMU			
ISUP Parameter values	IAM: TMR 3,1 kHz audio				
SIP Parameter values		AVP 0 or <dynamic-pt> 0 or rtpmap: <dynamic-pt> P0</dynamic-pt></dynamic-pt>	CMU/8000		
Comments					
Message flows	SIP NNI INVITE 100 Trying		SIP-I INVITE (IAM)		

TP number	TP_101_024A	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.5	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ing_of_ SIP-INVITE request/		
Selection criteria	PICS 6.2.4/5			
Test Purpose name	G.177 a-law: Coding of TMR			
Test Purpose	Ensure that an INVITE with end			
	received. The Transmission Me	edium Requirement parameter	r in the INVITE with	
	encapsulated IAM is set to '3,1	kHz audio' derived from the c	odec PCMA	
ISUP Parameter values	IAM:			
	TMR			
	3,1 kHz audio			
SIP Parameter values	INVITE:			
	SDP			
	m=audio <port #=""> RTP/AVP 8 or <dynamic-pt></dynamic-pt></port>			
	a=rtpmap:8 PCMA/8000 or rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←			
		Apply post test routine		

TP number	TP_101_024B	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2.5
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/	
Selection criteria	PICS 6.2.4/1		
Test Purpose name	CLEARMODE: Coding of TMR		
Test Purpose	Ensure that an INVITE with end	capsulated IAM is sent after ar	n INVITE request was
	received. The Transmission Me		
	encapsulated IAM is set to '64	kBit/s unrestricted' derived from	m the CLEARMODE codec
ISUP Parameter values	IAM:		
	TMR		
	64 kBit/s unrestricted		
SIP Parameter values	INVITE:		
	SDP		
	m=audio <port #=""> RTP/AVP <dynamic-pt></dynamic-pt></port>		
	a=rtpmap: <dynamic-p1< th=""><th>> CLEARMODE/8000</th><th></th></dynamic-p1<>	> CLEARMODE/8000	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←		
	Apply post test routine		

TD	TD 404 0040	D-4	[4] - 7.0.4
TP number	TP_101_024C	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2.5
TSS reference	SIP NNI - SIP-I/Basic ca	III/Sending_of_ SIP-INVITE	request/
Selection criteria	PICS 6.2.4/7		
Test Purpose name	CLEARMODE: Coding of	of TMR	
Test Purpose	Ensure that an INVITE v	vith encapsulated IAM is se	ent after an INVITE request was
-	received. The Transmiss	sion Medium Requirement	parameter in the INVITE with
			derived from the CLEARMODE codec
ISUP Parameter values	IAM:		
	TMR		
	3,1 kHz audio		
SIP Parameter values	INVITE:		
	SDP		
	m=image 4 <port< th=""><th>#> udptl t38 or tcptl t38</th><th></th></port<>	#> udptl t38 or tcptl t38	
	a=[Based on ITU		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→	→ INVITE (IAM)
	100 Trying	←	,
	Apply post test routine		

TP number	TP_101_025	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.5	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/		
Selection criteria	PICS 6.2.4/1			
Test Purpose name	CLEARMODE: Coding of USI			
Test Purpose	Ensure that an INVITE with end	capsulated IAM is sent after an	INVITE request was	
	received. The User service Info			
	CLEARMODE			
ISUP Parameter values	IAM:			
	USI			
	Information Transport C	apability		
	Unrestricted digital in	nformation		
	or			
	Unrestricted digital inf. w/tones/ann			
SIP Parameter values	INVITE:			
	SDP			
	m=audio <port #=""> RTP/</port>			
	a=rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←			
		Apply post test routine		

TP number	TP 101 025A	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.5	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SIP-INVITE request/	15 37	
Selection criteria	PICS 6.2.4/7	· ·		
Test Purpose name	Fax T.38: Coding of USI			
Test Purpose	Ensure that an INVITE with end	capsulated IAM is sent after ar	n INVITE request was	
	received. The User service Info			
	information' or 'Unrestricted dig	ital inf. w/tones/ann' if the first	stated codec was set to	
	CLEARMODE			
ISUP Parameter values	IAM:			
	USI			
	Information Transport Capability			
	3,1 kHz audio			
SIP Parameter values	INVITE:			
	SDP			
	m=image 4 <port #=""> udp</port>	tl t38 or tcptl t38		
	a=[Based on ITU-T T.38	· 3 [4]]		
Comments	•			
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
	100 Trying ←		,	
	Apply post test routine			
L	L			

Table 6.1.1.1-2: Void

Table 6.1.1.1-3: Void

TP number	TP 101 026	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.2.5
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/	
Selection criteria			
Test Purpose name	Coding of HLC		
Test Purpose	Ensure that an INVITE with end	capsulated IAM is sent after an	INVITE request was
	received. The High Layer Com	patibility parameter in the IAM	is set according the mapping
	described in table 6.1.1.1-4		
ISUP Parameter values	IAM:		
	HLC		
SIP Parameter values	INVITE:		
	SDP		
	m line		
	a attributes		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	IAM
	100 Trying ←		
		Apply post test routine	

Table 6.1.1.1-4: Coding of HLC

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

TP number	TP 101 027	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.5			
TSS reference	SIP NNI - SIP-I/Basic call/Sending of SIP-INVITE request/					
Selection criteria	PICS 6.2.1/5	 				
Test Purpose name	Mapping of PSTN XML HighLayerCompatibility					
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a					
	HighLayerCompatibility elemen					
	IE present in an ISUP Access					
	derived from the PSTN XMLHigh	ghLayerCharacteristics elemer	nt			
ISUP Parameter values	IAM:					
	ATP High Layer Compatibility					
	High Layer Characterist	ics>HLC_value				
SIP Parameter values	INVITE:					
	PSTN XML MIME body					
		<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00	<				
	Interpretation>100<					
	PresentationMethod	>01<				
	HLOctet4					
	HighLayerCharacter	istics>HLC_value<				
Comments						
Message flows	SIP NNI MGCF SIP-I					
	INVITE → INVITE (IAM)					
	100 Trying ←					
		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	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML LowLayerCompatibility				
Test Purpose	Ensure that on receipt of a PS				
		t, this information is mapped in			
	IE present in an ISUP Access				
	value is derived from the PSTN	I XMLInformationTransferCapa	bility element		
ISUP Parameter values	IAM:				
	ATP Low Layer Compatibility				
	InformationTransferCap	ability= ITC_VA			
SIP Parameter values	INVITE:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
		Capability> ITC_VA <			
	LLOctet4>				
	TransferMode>00<				
	InformationTransferl	Rate>10000<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE → INVITE (IAM)				
	100 Trying ←				
		Apply post test routine			

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

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

TP number	TP_101_029	Reference	[1], clause 7.2.1		
T00			[2], clause 7.2.3.1.2.5		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML BearerCapability into TMR and USI				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a				
	BearerCapability element, this	information is mapped into a U	Iser Service Information		
	Parameter the Information Tran		d from the PSTN		
	XMLInformationTransferCapab	ility element			
ISUP Parameter values	IAM:				
	USI				
	Information Transfer Ca	pability= ITC_value			
SIP Parameter values	INVITE:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC value<				
	BCoctet4				
	TransferMode>00<				
	InformationTransferI	Rate>10000<			
	BCoctet5				
	Layer1Identification>	·01<			
	UserInfoLayer1Proto	ocol>00011<			
Comments	<u> </u>				
Message flows	SIP NNI MGCF SIP-I				
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

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

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

TP number	TP_101_030	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2.5			
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/					
Selection criteria	PICS 6.2.1/5AND PICS 6.2.1/7	•				
Test Purpose name	Mapping of PSTN XML HighLayerCompatibility into User Teleservice Information					
	parameter	parameter				
Test Purpose	Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a					
	HighLayerCompatibility elemer					
	Information parameter the Hig	gh Layer Characteristics value	is derived from the PSTN			
	XML HighLayerCharacteristics	element				
ISUP Parameter values	IAM:					
	UTI					
	High Layer Characterist	tics>HLC_value				
SIP Parameter values	INVITE:					
	PSTN XML MIME body					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacter	ristics>HLC_value<				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE ->		INVITE (IAM)			
	100 Trying ←					
		Apply post test routine				

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

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

			[1], clause 7.2.1		
TCC reference	CID NINI CID I/Dagia call/Cand	ing of CID INIVITE request/	[2], clause 7.2.3.1.2.5a		
	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/				
	PICS 6.2.1/5				
	all Back connection type is se		IN THE BOTH VAN ANDE		
	Ensure that on receipt of two BearerCapability elements in a INVITE PSTN XML MIME body:				
-	 The first stated codec in the 	e SDP m line is the equivalen	t to the second		
	BearerCapability element,	the BearerCapability element	is mapped into the User		
		parameter in the sent IAM, th ationTransferCapability value	e TMR is set according the		
		n the SDP m line is the equiva	alent to the first		
		the BearerCapability element			
		parameter in the sent IAM, the			
		ationTransferCapability value			
ISUP Parameter values	AM:	ation transicioapability value			
	гмк = second InformationTran	sferCanability			
	ΓMR prime = first InformationTr				
	JSI = first BearerCapability	ansier Capability			
	JSI = liist BearerCapability JSI prime = second BearerCap	ahility			
	NVITE: PSTN XML MIME body				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
ľ	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability> 00000 <				
	or	Sapasinty 00000 1			
	InformationTransferCapability>10000<				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransfer0	Capability> 10001 <			
	SDP: m line contains as the firs codec	t codec CLEARMODE and as	s the second codec a G.711		
Message flows	SIP NNI	MGCF	SIP-I		
I	NVITE →	→	INVITE (IAM)		
	100 Trying				
	- -	Apply post test routine			

TP number	TP_101_032	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.5a		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/				
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:	CDD line is the	any invalant to the execut		
	The first stated codec in the Bears Canability alament				
			y element is mapped into the User		
Service prime (USI prime) parameter in the sent IAM, the TMR is set a second PSTN XML InformationTransferCapability value					
	The second stated codec				
			y element is mapped into the User		
			nt IAM, the TMR prime is set according		
	the first PSTN XML Inforn				
	Ensure that the INVITE with e	ncapsulated IAM doe	es not contain the Fallback connection		
	type if the succeeding network				
	 TMR = Speech or audio 3 	,1 kHz			
	 USI = Speech or audio 3, 	1 kHz			
	 A TMR prime parameter is 	s not present			
	A USI prime is not presen	t			
ISUP Parameter values	IAM:				
	TMR = second InformationTra				
	TMR prime = first InformationTransferCapability				
	USI = first BearerCapability				
SIP Parameter values	USI prime = second BearerCa INVITE: PSTN XML MIME boo				
SIP Parameter values	<pre><?xml version="1.0" encoding</pre></pre>				
	PSTN	- uli-o !/			
	BearerCapability				
	BCoctet3				
	CodingStandard>00)<			
	InformationTransfer				
	or				
	InformationTransfer	Capability>10000<			
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransfer	Capability>10001<			
	SDP:	ham DTD/AV/D CL C	ADMODE 9		
Commonts	m=audio <pre></pre>		DE and as the second codec a G.711		
Comments	codec	31 COUGO OLEANINO	DE and as the second codec a G./ 11		
		network does not su	ipport the Fall back connection type		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -		→ INVITE (IAM)		
	100 Trying				
		Apply post test	routine		
	1	ייים אייים	: 		

TP number	TP_101_033	Reference		[1], clause 7.2.1	
				[2], clause 7.2.3.1.2.9	
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_ SIP-	NVITE request/		
Selection criteria	PICS 6.2.1/8				
Test Purpose name	Max-Forwards received	d, HOP is sent			
Test Purpose	Ensure that on receipt of the Max-Forwards header, the value is mapped into the Hop counter. The value of the HOP is created from the Max-Forwards header value by applying a given factor				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP NNI	MC	SCF	SIP-I	
	INVITE	→	→	INVITE (IAM)	
	100 Trying	←			
		Apply post test routine			

TP number	TP 101 034	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.10		
TSS reference	SIP NNI - SIP-I/Basic call/Sending of SIP-INVITE request/				
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML ProgressIndicator				
Test Purpose		Ensure that on receipt of a PSTN XML attachment in an INVITE request containing a			
	ProgressIndicator element, this				
	in an ISUP Access Transport P	arameter the Progress descrip	otion value is derived from the		
	PSTN XML ProgressDescriptio	n element			
ISUP Parameter values	IAM:				
	ATP Progress Indicator				
	Progress Description=P	l_value			
SIP Parameter values	INVITE:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location>0000<				
	ProgressOctet4				
	ProgressDescription	>PI_value<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

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

Pl_value	XML ProgressIndicator ProgressDescription	ATP Progress Indicator value
PI_VA_1	'000001'	Call is not end-to-end ISDN; further call progress information
		may be available in-band
PI_VA_2	'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	[1], clause 7.2.1			
T00 == f=======	OLD NINII OLD I/D - : II/O :		[2], clause 7.2.3.1.2A.1.1			
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/					
Selection criteria	PICS 6.2.2/1					
Test Purpose name	Number Portability Separate Directory Number Addressing Method is used. A Called Directory Number is present in the sent IAM					
Test Purpose	Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters					
rest Furpose	in the request line, an INVITE with encapsulated IAM is sent. The Called Party Number is					
	set to:					
		tor: "Network routing number	in national (significant)			
		al (significant) number" or "N				
	network specific number for					
	 Internal Network Number 	r Indicator: routing to interna	I network number not allowed			
	 Numbering plan Indicato 	r: ISDN (Telephony) numberi	ing plan (Recommendation			
	ITU-T E.164 [i.1])					
		from the user info of the reque	est URI the country code is			
	removed					
	The Called Directory Number					
	 Nature of address indicator "National (significant) number" Internal Network Number Indicator: routing to internal network number not allowed Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation ITU-T E.164 [i.1]) Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed else the address digits 					
	applied unchanged					
ISUP Parameter values	IAM:					
	Called party number, Called	d Directory Number				
SIP Parameter values	INVITE:					
		number>; rn= <number portab<="" th=""><th>ility Routing Number>; npdi</th></number>	ility Routing Number>; npdi			
	INVITE (IAM):					
Comments	Request URI: sip: <called number="">; The URI parameters can be received in arbitrary order</called>					
Message flows	SIP NNI MGCF SIP-I					
message nows	INVITE -		INVITE (IAM)			
	100 Trying	-				
		Apply post test routine				

TP number	TP_101_036	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2A.1.2		
TSS reference	SIP NNI - SIP-I/Basic call/Send	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/			
Selection criteria	PICS 6.2.2/2				
Test Purpose name	Number Portability Concatenat present	ed Addressing Method is used	. The called party number is		
Test Purpose	 Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters in the request line, an INVITE with encapsulated IAM is sent. The Called Party Number is set to: Nature of address indicator: "Network routing number concatenated with called directory number" or "National (significant) number" Internal Network Number Indicator: routing to internal network number not allowed Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation ITU-T E.164 [i.1]) Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed else the address digits applied unchanged. The called party number derived from the user info is appended except the country code 				
ISUP Parameter values	IAM:				
	Called party number				
SIP Parameter values	INVITE:				
		Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>			
		INVITE (IAM):			
Commonto	Request URI: sip: <called number="">;</called>				
Comments	The URI parameters can be received in arbitrary order				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -		INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

TP number	TP_101_037	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2A.1.3		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/				
Selection criteria	PICS 7.2.2/3				
Test Purpose name	Number Portability Separate N		ssing Method is used.		
	A Network Routing Number is present in the sent IAM				
Test Purpose	Ensure that on receipt of an init				
	in the request line, an INVITE v	vith encapsulated IAM is sent.	The Called Party Number is		
	set to:				
		tor: "National (significant) num			
		r Indicator: routing to internal			
	 Numbering plan Indicato ITU-T E.164 [i.1]) 	r: ISDN (Telephony) numberir	ng plan (Recommendation		
	 Address Signal: derived fremoved 	rom the user info of the reques	st URI the country code is		
	The Network Routing Number is set to:				
	Nature of address indicator: "Network routing number in national (significant)				
	number format" or "Network routing number in network specific number format"				
	 Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation ITU-T E.164 [i.1]) Address Signal: derived from the rn parameter if the Number Portability Routing Number contains an E164 number the country code is removed else the address digits applied unchanged 				
ISUP Parameter values	IAM:				
	Called party number, Netwo	ork Routing Number			
SIP Parameter values	INVITE:				
	Request URI: sip: <called n<="" th=""><th>umber>; rn=<number portabil<="" th=""><th>ity Routing Number>; npdi</th></number></th></called>	umber>; rn= <number portabil<="" th=""><th>ity Routing Number>; npdi</th></number>	ity Routing Number>; npdi		
	INVITE (IAM):				
	Request URI: sip: <called number="">;</called>				
Comments	The URI parameters can be received in arbitrary order				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

TP number	TP_101_038	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.2A.2			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request/				
Selection criteria	PICS 6.2.2/1 OR PICS 6.2.2/2	OR PICS 6.2.2/3 AND PICS 6	.2.2/4			
Test Purpose name	Sending of Number Portability	Forward Information				
Test Purpose	Ensure that on receipt of an initial INVITE request containing the npdi parameters in the request line, an INVITE with encapsulated IAM is sent. The INVITE with encapsulated IAM contains the Number Portability Forward Information parameter set according the following roles:					
		atabase Dip Indicator is prese r, set to "number portability qu er"				
ISUP Parameter values	IAM:					
	Number Portability Forward Information					
SIP Parameter values	INVITE: Request URI: sip: <called number="">; npdi INVITE (IAM): Request URI: sip: <called number="">;</called></called>					
Comments						
Message flows	SIP NNI INVITE → 100 Trying ←	MGCF →	SIP-I INVITE (IAM)			
		Apply post test routine	Apply post test routine			

TP number	TP 101 039	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2A.2		
TSS reference	SIP NNI - SIP-I/Basic call/Sending of SIP-INVITE request/				
Selection criteria	PICS 6.2.2/1 OR PICS 6.2.2/2	OR PICS 6.2.2/3 AND PICS 6	5.2.2/4		
Test Purpose name	Sending of Number Portability	Forward Information			
Test Purpose	Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters in the request line, an INVITE with encapsulated IAM is sent. The INVITE with encapsulated IAM contains the Number Portability Forward Information parameter set according the following roles: If the Number Portability Database Dip Indicator is present, and a Number Portability Routing Number is present, set to "number portability query done for called number, ported called subscriber"				
ISUP Parameter values	IAM:				
	Number Portability Forward Information				
SIP Parameter values	INVITE: Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi INVITE (IAM): Request URI: sip: <called number="">;</called></number></called>				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

TP number	TP_101_040	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2A.2	
TSS reference	SIP NNI - SIP-I/Basic call/Sending of SIP-INVITE request/			
Selection criteria	PICS 6.2.2/1 OR PICS 6.2.2/2	OR PICS 6.2.2/3 AND PICS 6	6.2.2/4	
Test Purpose name	Sending of Number Portability	Forward Information		
Test Purpose	Ensure that on receipt of an initial INVITE request containing the rn parameters in the request line, an INVITE with encapsulated IAM is sent. The INVITE with encapsulated 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 r	number"		
ISUP Parameter values	IAM: Number Portability Forward	Information		
SIP Parameter values	INVITE: Request URI: sip: <called number="">; rn=<number number="" portability="" routing=""> INVITE (IAM): Request URI: sip: <called number="">;</called></number></called>			
Comments				
Message flows	SIP NNI INVITE → 100 Trying ←	MGCF →	SIP-I INVITE (IAM)	
	Apply post test routine			

TP number	TP_101_041	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2B.1		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request/				
Selection criteria	PICS 6.2.2/5 AND PICS 6.2.2/	6			
Test Purpose name	Request URI cic parameter is r	mapped into IAM TNS paramet	er		
Test Purpose	Ensure that on receipt of an ini	tial INVITE request containing	the cic parameter in the		
	request line, an INVITE with er	ncapsulated IAM is sent. The T	ransit network selection		
	parameter is set to:				
		cation: CCITT-standardized ide	entification or national network		
	identification				
	 Network identification pl 	an: according value of Type of	network identification		
	 Network identification: d 	igits derived from the carrier id	entification code value of the		
	cic parameter				
ISUP Parameter values	IAM:				
	Transit network selection B	ICC ?			
SIP Parameter values	INVITE:				
	Request URI: sip: <called number="">; cic=< Carrier identification code ></called>				
	INVITE (IAM):				
	Request URI: sip: <called number="">;</called>				
Comments					
Message flows	SIP NNI MGCF SIP-I				
	INVITE → INVITE (IAM)				
	100 Trying ←				
	Apply post test routine				

Table 6.1.1.1-10: Void

6.1.1.2 Sending of UPDATE

TP number	TP_102_001	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.3			
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding of COT/	[[2], Gause 1.2.3.1.3			
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 UPDATE					
Test Purpose		If the INVITE with an encapsulated IAM has already been sent, the UPDATE message				
rest i di pose	shall be sent, when all of the					
		ons (if any) in the IMS net				
			is successfully performed on the			
	outgoing circuit		no caccociany penemica on aic			
ISUP Parameter values		dicator = "Continuity chec	k performed on a previous circuit" or			
	"Continuity check required or		'			
SIP Parameter values	INVITE:					
	Require: precondition					
	SDP a=curr:qos loca	al none				
	a=curr:qos rem					
	a=des:qos mai	ndatory local sendrecv				
	a=des:qos non	e remote sendrecv				
	183: Require: 100rel					
	SDP a=curr:qos loca	al none				
	a=curr:qos rem					
		ndatory local sendrecv				
	a=des:gos mandatory remote sendrecv					
	a=conf:qos ren	a=conf:qos remote sendrecv				
	UPDATE:	-1 du				
	SDP a=curr:qos loca					
	a=curr:qos remote none					
	a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv					
	a-ues.qos mai	idatory remote sendrecv				
	200 OK UPDATE					
	SDP a=curr:qos loca					
	a=curr:qos rem					
	•	ndatory local sendrecv				
	a=des:qos mai	ndatory remote sendrecv				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
		}	→ INITE (IAM)			
	1.00.00	(← 100 Trying			
	3	(← 183 Session Progress			
)	→ PRACK			
	- ,	(← 200 OK (PRACK)→ UPDATE			
		}				
	ZUU UK (UPDATE)	200 OK (UPDATE) ← 200 OK (UPDATE)				
		Apply post test rout	une			

TP number	TP_102_002		Reference		[2], clause 7.3.3.1.3
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_COT/				
Selection criteria	PICS 6.1.1/2 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/4				
Test Purpose name	Sending of BICC UPDATE				
Test Purpose			I IAM has already beer	n sent, t	the UPDATE message shall
	be sent, when	all of the followin	g conditions have bee	n met:	3
			(if any) in the IMS net		ave been met
ISUP Parameter values	IAM: Nature o	f connection indic	cator = "COT to be exp	ected"	
SIP Parameter values	INVITE:				
	Require: preco	ondition			
	SDP a=curr:qos local none				
		a=curr:qos remot			
			atory local sendrecv		
		a=des:qos none	remote sendrecv		
	183: Require:	100rel			
		a=curr:qos local i	none		
		a=curr:qos remot			
			atory local sendrecv		
			atory remote sendrecv		
		a=conf:qos remo			
		•			
	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 remot	e sendrecv		
		a=des:qos mand	atory local sendrecv		
		a=des:qos mand	atory remote sendrecv		
Comments					
Message flows	SIP NNI MGCF SIP-I				
	INVITE	→		→	INVITE (IAM)
	100 Trying	←		←	100 Trying
	183 Session F	Progress		←	183 Session Progress
	PRACK	→		→	PRACK
	200 OK (PRA	CK) ←		←	200 OK (PRACK)
	UPDATÈ	´ →		→	UPDATÈ ´
	200 OK (UPDATE) ← 200 OK (UPDATE)				
	`	,	Apply post test rou	ıtine	,

6.1.1.3 Receipt of multiple INVITE request and in-dialog SIP INFO request

TP number	TP_103_001	Reference	[1], clause 7.2.3 [2] 7.2.3.1.3A.2		
TSS reference	SIP-ISUP/Basic call/ Receipt of in-dialog SIP INFO requests				
Selection criteria	PICS 6.2.3/1				
Test Purpose name	Receipt of INFO request				
Test Purpose	If the MGCF supports overlap signalling from the preceding IMS node and the first incoming SIP INVITE request does not provide a complete number, then the MGCF shall not forward this first SIP INVITE request and additional SIP INFO requests which are used				
	by the MGCF to collect all digit	s required to identify the called	subscriber		
ISUP Parameter values					
SIP Parameter values	INVITE: Supported: 100rel 183 Session Progress: Supported: 100rel or Required: 100rel INFO: Content-Type: application/x-session-info SubsequentDigit: <additional digits=""></additional>				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→			
	484 Address Incomplete	←			
	ACK	→			
	INVITE	→			
	183 Session Progress	←			
	INFO	→			
	200 OK (INFO)	←			
	INFO	→ →	INVITE (IAM)		
	200 OK (INFO)	←			
	180 Ringing(3)	(180 Ringing(ACM)		
		Apply post test routine			

TP number	TP_103_002	Reference	[1], clause 7.2.3 [2], clause 7.2.3.1.3A.3			
TSS reference	SIP NNI - SIP-I/Basic call/ Receipt of multiple INVITE request					
Selection criteria	PICS 6.2.3/2					
Test Purpose name	Receipt of multiple INVITE request					
Test Purpose	If the MGCF supports overlap signalling from the preceding IMS node and the first					
	incoming SIP INVITE request does not provide a complete number, then the MGCF shall					
	not forward this first SIP INVITE request and additional SIP INVITE requests which are					
	used by the MGCF to collect a	all digits required to identify	the called subscriber			
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE(1)	→				
	0.05.4					
	CASE A INVITE(2)	→				
	484 Address Incomplete(1) ACK					
	ACK	→				
	INVITE(3)	→	→ INVITE (IAM)			
	484 Address Incomplete(2)	É	2 11(11)			
	10 17 tadi 000 moompioto(2)	-				
	180 Ringing(3)	←	← 180 Ringing(ACM)			
	3 3(3)		3 3(- /			
	CASE B					
	484 Address Incomplete(1)	←				
	ACK	→				
	INVITE(2)	→				
	484 Address Incomplete(2)	←				
	ACK	→				
	INVITE(3)	→	→ INVITE (IAM)			
	180 Ringing(3)	←	← 180 Ringing (ACM)			
		Apply post test routine	5 5 ()			

6.1.1.4 Sending of 18x provisional responses

TP number	TP_104_001	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic ca	ll/Sending_of_18x/			
Selection criteria					
Test Purpose name	Sending of 180 Ringing	after 180 Ringing with a enca	osulated ACM was received		
Test Purpose	The SUT shall send the SIP 180 Ringing when receiving the following messages: - 180 Ringing (ACM) with Called party's status indicator set to subscriber free				
ISUP Parameter values	ACM: BCI Called party s	status indicator = subscriber fr	ee		
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
_	INVITE	→	→ INVITE (IAM)		
	100 Trying	←	← 100 Trying		
	180 Ringing	←	← 180 Ringing (ACM)		
		Apply post test rou			

TP number	TP 104 002		Reference	[1], clause 7.2.1
				[2], clause 7.2.3.1.4
TSS reference	SIP NNI - SIP	-I/Basic call/Send	ding_of_18x/	
Selection criteria				
Test Purpose name	Sending of 18	0 Ringing after C	PG was recei	ved
Test Purpose				en receiving the following messages:
		ng (CPG) with Ev		
ISUP Parameter values		lled party status		indication
	CPG: Event in	ndicator = ALER1	ΓING	
SIP Parameter values				
Comments				
Message flows	SIP NNI	MG	CF	SIP-I
_	INVITE	→	→	INVITE (IAM)
	100 Trying	←		, ,
			←	183 Session Progress (ACM - no indication)
	180 Ringing	←		180 Ringing CPG(ALERTING)
			Apply pos	t test routine

TP number	TP_104_003	Reference	[1], clause 7.2.1				
			[2], clause 7.2.3.1.4				
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/					
Selection criteria	PICS 6.2.1/9						
Test Purpose name	ACM received, P-Earl-Media I	neader present in 180					
Test Purpose		0 Ringing with an encapsulated					
	Ringing is sent. In the 180 Rin	iging a P-Early-Media header is	s present indicating				
	authorization of early media						
ISUP Parameter values	IAM: 3,1 kHz audio						
	ACM: BCI Called party status	indicator = free					
SIP Parameter values	INVITE:						
	Supported: 100rel	Supported: 100rel					
	P-Early-Media: supported						
	180 ringing						
	P-Early-Media: < authoriza	P-Early-Media: < authorization of early media>					
Comments							
Message flows	SIP NNI	MGCF	SIP-I				
	INVITE	→	INVITE (IAM)				
	180 Ringing	-	180 Ringing (ACM -free)				
	Apply post test routine						

TP number	TP 104 004	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.4			
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_18x/				
Selection criteria	PICS 6.2.1/10					
Test Purpose name	Provide media in a Cal	I-Info header field, or an Ale	rt-Info header field in a 180			
Test Purpose		Ensure that the SUT is able to provide media instead of the in-band media received from the PSTN in a Call-Info header field, or an Alert-Info header field present in a 180 Ringing				
ISUP Parameter values	ACM: BCI Called party	status indicator = subscribe	er free			
SIP Parameter values	180: Call-Info: <media re<br="">Alert-Info: <media r<="" th=""><th>•</th><th></th></media></media>	•				
Comments						
Message flows	SIP NNI INVITE 100 Trying 180 Ringing	MGCF ← Apply post test i	SIP-I → INVITE (IAM) ← 100 Trying ← 180 Ringing (ACM - free)			

TP number	TP_104_005	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4A	
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_18x/		
Selection criteria	PICS 6.2.1/10			
Test Purpose name	Provide media in a Call-Info	neader field, or an	Alert-Info header field in a 183	
Test Purpose	Ensure that the SUT is able to	o provide media ir	nstead of the in-band media received from	
	the PSTN in a Call-Info head	er field, or an Aler	t-Info header field present in a 183 Session	
	Progress			
ISUP Parameter values	ACM: BCI Called party statu	s indicator = no ind	dication	
SIP Parameter values	183:			
	Call-Info: <media resource="">; or</media>			
	Alert-Info: <media resource=""></media>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←	←	100 Trying	
	183 Session Progress ←	←	183 Session Progress ACM(no indication)	
	Apply post test routine			

TP number	TP 104 006	Reference	[1], clause 7.2.1			
	1		[2], clause 7.2.3.1.4			
TSS reference	SIP NNI - SIP-I/Basic call/S	Sending_of_18x/	- LE - 2/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Progress Indica	ator received in a AC	M/CPG			
Test Purpose	Ensure that on receipt of an 18x Message with encapsulated ACM called party status					
		subscriber free or a CPG event indicator ALERTING, a 180 Ringing is sent or 183 Session				
			tained in the ACM ATP or CPG ATP			
	parameter is mapped into the PSTN XML element in the 180 as indicated in					
	table 6.1.1.4-2.					
			ed party status subscriber free 180 Ringing			
			the ProgressIndicator value PI_value			
			ent indicator ALERTING 180 Ringing is sent rigressIndicator value PI_value			
ISUP Parameter values		Called party status = s				
1301 Farameter values		Called party status = i				
		'inband info available				
	CPG: ATP contains a Pro					
SIP Parameter values	180:	<u> </u>				
	xml version="1.0" encod</th <th>ing="utf-8"?></th> <th></th>	ing="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard	>00<				
	Location <yyyy></yyyy>					
	ProgressOctet4					
	ProgressDescription> PI_value <					
	183:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN	5				
	ProgressIndicator					
	ProgressOctet3					
	CodingStandard	>00<				
	Location <yyyy></yyyy>					
	ProgressOctet4	tions DI contra an				
Comments	ProgressDescrip	otion> PI_value <g< th=""><th></th></g<>				
Message flows	SIP NNI	MGCF	SIP-I			
Wessage nows	INVITE -		INVITE (IAM)			
	IIIVII E	4	1144112 (1/4W)			
	CASE A					
	180 Ringing ←	•	■ 180 Ringing (ACM free)			
			ATP contains a Progress Indicator IE)			
	CASE B		,			
	183 Session Progress ←	•	183 Session Progress(ACM - no			
			indication)			
	180 Ringing ←	•	CPG (ATP contains a Progress Indicator			
			IE)			
		Apply post te	est routine			

TP number	TP_104_007	Reference	[1], clause 7.2.1			
TCC votovovos	CID NINI CID I/Dania call/Com	diam of 10ml	[2], clause 7.2.3.1.4			
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5 Mapping of High layer compatibility received in a 18x Message with encapsulated					
Test Purpose name	ACM/CPG	,				
Test Purpose		Ensure that on receipt of a 18x Message with encapsulated ACM called party status				
	subscriber free or a 183 with a					
	High layer compatibility IE con					
	into the HighLayerCompatibility table 6.1.1.4-3.	PSIN XIVIL element in the 18	u as indicated in			
		asis and import ACMA called manters	atatus aubaaribar fra a 100			
		ceived in an ACM called party s				
		N XML element contains the H	ignLayerCompatibility value			
	HLC_value	animadia an CDC Eventindiant	to a ALEDTING 400 Discussion in			
		ceived in an CPG Event indicat ment contains the HighLayerCo				
ISUP Parameter values		d party status = subscriber free				
loor rarameter values		ains a High layer compatibility				
		ed party status = no indication	·-			
		and info available				
	CPG: ATP contains a High lay					
SIP Parameter values	180:	,				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN High overCompatibility					
	HighLayerCompatibility					
	HLOctet3 CodingStandard>00<					
	Interpretation>100<					
	Presentation/Method>01<					
	HLOctet4					
	HighLayerCharacter	ristics>HLC value<				
Comments		<u> </u>				
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	→	INMVITE (IAM)			
	CASE A					
	180 Ringing ←	+	180 Ringing (ACM)			
			(ATP contains HLC)			
	CASE B					
	183 Session Progress	+	183 Session Progress (ACM)			
	180 Ringing ←	←	180 Ringing (CPG)			
			(ATP contains HLC)			
		Apply post test routine				

TP number	TP_104_008	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Low layer compatibility received in a 18x with encapsulated ACM/CPG				
Test Purpose	Ensure that on receipt of an 18x Message with an encapsulated ACM called party status subscriber free or encapsulated CPG event indicator ALERTING, a 180 Ringing is sent The Low layer compatibility IE contained in the ACM ATP or CPG ATP parameter is mapped into the LowLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-4				
	Ringing is sent in the PST ITC_value	eived in an ACM called party s N XML element contains the L eived in an CPG Event indicat	owLayerCompatibility value		
		ment contains the LowLayerCo			
ISUP Parameter values	ACM: CASE A BCi Called party status = subscriber free ATP contains a LLC IE CASE B BCi Called party status = no indication				
		and info available'			
SIP Parameter values	CPG: ATP contains a Low lay	er compatibility iE			
SIF Farameter values	180: xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00<				
	InformationTransfer	Rate>10000<			
Comments					
Message flows	SIP NNI INVITE →	MGCF →	SIP-I INVITE (IAM)		
	CASE A				
	180 Ringing ←	+	180 Ringing (ACM) (ATP contains LLC)		
	CASE B 183 Session Progress ←	←	183 Session Progress (ACM)		
	180 Ringing ←	-	180 Ringing CPG (ATP contains LLC)		
		Apply post test routine			

TP number	TP_104_009	Reference	[1], clause 7.2.1		
TCC votovovos	CID NINI CID I/Dania call/Cara	diam of 40v/	[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Bearer Capability received in a18x with encapsulated ACM/CPG				
Test Purpose	Ensure that on receipt of an 18x message with encapsulated 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 or CPG ATP parameter is mapped into the BearerCapability PSTN XML element in the 180 as indicated in table 6.1.1.4-5 Bearer Capability received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the BearerCapability value ITC_value Bearer Capability received in an CPG Event indicator ALERTING 180 Ringing is sent				
ISUP Parameter values		contains the BearerCapability of party status = subscriber free			
1301 Farameter values	ATP contains a BC IE CASE B BCi Calle	d party status = no indication and info available'	•		
SIP Parameter values	180:	Capability IE			
Commonto	<pre><?xml version="1.0" encoding= PSTN BearerCapability BCoctet3 CodingStandard>00 InformationTransfer BCoctet4 TransferMode>00</pre> InformationTransfer BCoctet5> Layer1Identification: UserInfoLayer1Prote	l< Capability>ITC_value< Rate>10000< >01<			
Comments	015 1111		0.5		
Message flows	SIP NNI INVITE → CASE A	MGCF →	SIP-I INVITE (IAM)		
	180 Ringing CASE C	←	180 Ringing (ACM - free) (ACM with ATP contains a Bearer Capability IE)		
	183 Session Progress	←	183 Session Progress (ACM - no indication)		
	180 Ringing ←		180 (CPG with ATP contains a Bearer Capability IE)		
		Apply post test routine			

TP number	TP_104_010	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4	
TSS reference	SIP NNI - SIP-I/Basic call/Sei	nding_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call ind in 180	icator into PSTN XML Progress	Indicator element value 1 sent	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")			
ISUP Parameter values	ACM: BCI ISDN User Part in	dicator = ISDN User Part not us	ed all the way	
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000001<			
Comments				
Message flows	100 Trying	MGCF → ← ← Apply post test routine	SIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM)	

TP number	TP 104 011	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic c	all/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Backward of in 180	call indicator into PSTN XML	ProgressIndicator element value 2 sent		
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access non-ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 2 (Destination address is non-ISDN)				
ISUP Parameter values	ACM: BCI ISDN Us	er Part indicator = ISDN Use	er Part used all the way		
	ISDN acc	cess indicator = Terminating	access non-ISDN		
SIP Parameter values	180 Ringing xml version="1.0" en PSTN ProgressIndicator ProgressOctet4</th <th>Ü</th> <th></th>	Ü			
_	ProgressDes	scription>0000010<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	100 Trying	←	100 Trying		
	180 Ringing	←	180 Ringing (ACM)		
	Apply post test routine				

TP number	TP_104_012	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indicin 180	ator into PSTN XML ProgressI	ndicator element value 7 sent	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and the Backward call indicator ISDN User Part indicator is set to ISDN User Part used all the way and ISDN access indicator = Terminating access ISDN, a 180 Ringing is sent. A PSTN XML ProgressIndicator element is present the value is set to No 7			
ISUP Parameter values		ndicator = ISDN User Part use icator = Terminating access IS		
SIP Parameter values	180 Ringing xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
Comments				
Message flows	SIP NNI INVITE → 100 Trying ← 180 Ringing ←	←	SIP-I IAM 100 Trying 180 Ringing (ACM)	

TP number	TP 104 013	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/S	ending_of_18x/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of optional Backwa value 8 sent in 180	ard call indicator into PS	TN XML ProgressIndicator element		
Test Purpose	Ensure that on receipt of a 180 Ringing with 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 inform now available		nformation or an appropriate pattern is		
SIP Parameter values	180 Ringing xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	100 Trying	←	← 100 Trying		
	180 Ringing	←	← 180 Ringing (ACM)		
	Apply post test routine				

TP number	TP_104_014	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Sen				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	1 AND PICS 6.2.4/8			
Test Purpose name	The SUT performs Fall back				
Test Purpose	Ensure that on receipt of an INVITE request and the subsequent ISUP/BICC network is not				
		back is performed in the SUT:			
		kHz audio' USI is copied from t			
	element received in the PSTN	XML. Upon an ACM is receive	d a 180 Ringing is sent		
ISUP Parameter values					
SIP Parameter values	INVITE: PSTN XML MIME b	ody			
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00)<			
	InformationTransfer	Capability> 00000 <			
	or				
	InformationTransfer	Capability> 10000 <			
	BearerCapability				
	BCoctet3				
	CodingStandard>00)<			
	InformationTransferCapability>10001<				
	180 Ringing				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctat/				
	ProgressOctet4 ProgressDescription>0000101<				
	Bearer Capability	120001013			
	BCoctet3				
	CodingStandard>00)<			
	InformationTransfer				
		Capability 00000			
	or InformationTransferCapability>10000<				
	mormation ransier	Capability 10000			
Comments	Fallback is performed in the SI	JT			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -		INVITE (IAM)		
	100 Trying		100 Trying		
	180 Ringing		180 Ringing (ACM)		
	Too ranging	Apply post test routine	100 Kinging (AOM)		
L	1	pp.) poor toot routino			

TP number	TP_104_015	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	1 AND PICS 6.2.4/8			
Test Purpose name	Receipt of TMU speech, no BC	present in ATP			
Test Purpose	Ensure that on receipt of a Trai	nsmission medium used param	eter set to speech in the 180		
	Ringing with an ACM, a 180 Ri	nging is sent and a PSTN XML	BearerCapability element is		
	present the InformationTransfe	rCapability is set to Speech	•		
ISUP Parameter values	ACM: Transmission medium us	sed = speech			
SIP Parameter values	180 Ringing				
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>00000<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←	←	100 Trying		
	180 Ringing ←	←	180 Ringing (ACM)		
		Apply post test routine			

TP number	TP_104_016	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ing_of_18x/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/1	I AND PICS 6.2.4/8			
Test Purpose name	Receipt of TMU 3,1 kHz audio,				
Test Purpose	Ensure that on receipt of a Trar				
	the 180 Ringing with encapsula				
	BearerCapability element is pre	esent the InformationTransferC	Capability is set to 3,1 kHz		
	audio				
ISUP Parameter values	ACM: Transmission medium us	sed = 3,1 kHz audio			
SIP Parameter values	180 Ringing				
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransfer0	Capability>10000<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ← 100 Trying ′				
	180 Ringing ←	←	180 Ringing (ACM)		
		Apply post test routine			

TP number	TP_104_017	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	1 AND PICS 6.2.4/8			
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapab	ility sent in 180		
Test Purpose	Ensure that on receipt of a Tra				
	Capability IE in the 180 Ringing				
	XML BearerCapability element	is present the InformationTran	sferCapability is set as		
	indicated in table 6.1.1.4-1				
ISUP Parameter values	ACM: Transmission medium us	sed, ATP Bearer Capability IE			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ← 100 Trying				
	180 Ringing ← ← 180 Ringing (ACM)				
		Apply post test routine			

TP number	TP_104_018	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	1 AND PICS 6.2.4/8			
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapab	oility sent in 183		
Test Purpose	Ensure that on receipt of a Tra	nsmission medium used param	neter and in the ATP a Bearer		
	Capability IE in the 180 Ringing	g with encapsulated ACM, a 18	33 Session Progress is sent		
	and a PSTN XML BearerCapal	pility element is present the Infe	ormationTransferCapability is		
	set as indicated in table 6.1.1.4	-1			
ISUP Parameter values	ACM: Transmission medium u	sed, ATP Bearer Capability IE			
	BCi Called party status	= no indication			
SIP Parameter values	183 Session Progress				
	xml version="1.0" encoding=</p	:"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments	•••				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	→	INVITE (IAM)		
	100 Trying ←	+	100 Trying		
	183 Session Progress ←		183 Session Progress		
	119.111		(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	[1], clause 7.2.1
				[2], clause 7.2.3.1.4A
TSS reference	SIP NNI - SIP-	I/Basic call/Sendi	ng_of_18x/	
Selection criteria	NOT PICS 6.2.	1/5 AND NOT PI	CS 6.2.1/9	
Test Purpose name	ACM no indica	tion received, no	SIP response is	sent
Test Purpose				Progress with encapsulated ACM no SIP
	response is ser	nt if the INVITE d	oes not contain	a P-Early-Media header
ISUP Parameter values	IAM: 3,1 kHz a	udio		
	ACM: BCI Call	ed party status in	idicator = no ind	ication
SIP Parameter values				
Comments				
Message flows	SIP NNI	MG	SCF	SIP-I
	INVITE	→	→	INVITE(IAM)
			← Apply post te	183 Session Progress(ACM(no indication))
			Apply post te	ist routine

TP number	TP_104_020	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.4A			
TSS reference	SIP NNI - SIP-I/Basic call/Ser	ding_of_18x/				
Selection criteria	PICS 6.2.1/9					
Test Purpose name	ACM received, P-Earl-Media I	neader present in 183				
Test Purpose	Ensure that on receipt 183 Se					
	Session Progress is sent. In the	ne 183 session Progress a P-l	Early-Media header is present			
	indicating authorization of ear	y media				
ISUP Parameter values	IAM: 3,1 kHz audio					
	ACM: BCI Called party status	indicator = no indication				
SIP Parameter values	INVITE:					
	Supported: 100rel					
	P-Early-Media: supported	P-Early-Media: supported				
	183 Session Progress					
	P-Early-Media: < authorization of early media>					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	→	INVITE (IAM)			
	183 Session Progress	- ←	183 Session Progress ACM (no indication)			
		Apply post test routine				

TP number	TP 104 021	Reference	[1], clause 7.2.1			
			[2], clause 7.2.3.1.4A,			
			table 7.2.3.1.4A.1			
TSS reference	SIP NNI - SIP-I/Basic call/Sen	iding_of_18x/	-			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	CPG received, P-Earl-Media h	neader present in 183				
Test Purpose			ard call indicator set to In-band			
		is now available a 183 Sessior				
		edia header is present indicati	ng authorization of early media			
ISUP Parameter values	IAM: 3,1 kHz audio					
	CPG: oBCi In-band info or an	appropriate pattern is now ava	ilable			
SIP Parameter values	INVITE:	INVITE:				
	Supported: 100rel					
	P-Early-Media: supported					
	183 Session Progress					
	P-Early-Media: < authorization of early media>					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	→	INVITE (IAM)			
	183 Session Progress	-	183 Session Progress			
	(ACM)					
	183 Session Progress	÷ •	183 Session Progress (CPG)			
		Apply post test routine				

TP number	TP_104_022	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.4A,
			table 7.2.3.1.4A.1
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of optional Backward ProgressIndicator element value		ACM into PSTN XML
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated 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	SIP NNI	MGCF	SIP-I
	INVITE -		INVITE (IAM)
	183 Session Progress ←	←	183 Session Progress (ACM)
		Apply post test routine	

TP number	TP_104_023	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4A,
			table 7.2.3.1.4A.1
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indic	ator in encapsulated ACM into	PSTN XML
	ProgressIndicator element valu		
Test Purpose	Ensure that on receipt of a 183		
	Backward call indicator ISDN U		
	way, a 183 Session Progress is		
	the value is set to No 1 (Call is	not end-to-end ISDN: "further	progress information may be
	available in-band")		
ISUP Parameter values	ACM: BCI ISDN User Part ind	icator = ISDN User Part not us	ed all the way
	BCi Called party status	indicator = no indication	•
SIP Parameter values	183 Session Progress		
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription>0000001<		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	183 Session Progress ←	←	183 Session Progress
			(ACM)
		Apply post test routine	•

TP number	TP 104 024	Reference	[1], clause 7.2.1	
IF Hulliber	17_104_024	Reference	[2], clause 7.2.3.1.4A,	
			table 7.2.3.1.4A.1	
TCCforence	CID NINII CID I/Dania anli/Cara	ding of 10x/	table 7.2.3.1.4A.1	
TSS reference		SIP NNI - SIP-I/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		DOT!!!!	
Test Purpose name	Mapping of Backward call indi		D PSIN XML	
	ProgressIndicator element val			
Test Purpose	Ensure that on receipt of a 183			
	Backward call indicator ISDN I			
	and ISDN access indicator = T			
	sent. A PSTN XML ProgressIn	dicator element is present the	value is set to No 2	
	(Destination address is non-IS	DN)		
ISUP Parameter values	ACM: BCI ISDN User Part inc	dicator = ISDN User Part used	all the way	
	BCi ISDN access indica	ator = Terminating access non-	-ISDN	
		indicator = no indication		
SIP Parameter values	183 Session Progress			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	n> 0000010 <		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	→	INVITE (IAM)	
	100 Trying	•	,	
	183 Session Progress ← 183 Session Progress			
	(ACM)			
	Apply post test routine			
		Apply post test routine		

TP number	TP_104_025	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4A,	
			table 7.2.3.1.4A.1	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call indic	ator into in encapsulated ACM	PSTN XML	
	ProgressIndicator element valu			
Test Purpose	Ensure that on receipt of a 183	Session Progress with encaps	sulated ACM and the	
	Backward call indicator ISDN L	Jser Part indicator is set to ISD	N User Part used all the way	
	and ISDN access indicator = To	erminating access ISDN, a 183	B Session Progress is sent	
	A PSTN XML ProgressIndicate			
ISUP Parameter values	ACM: BCI ISDN User Part ind	icator = ISDN User Part used a	all the way	
	BCi ISDN access indica	tor = Terminating access ISDN	1	
	BCi Called party status	indicator = no indication		
SIP Parameter values	183 Session Progress			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000111<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←	` ,		
	183 Session Progress	+	183 Session Progress (ACM)	
		Apply post test routine		

TP number	TP 104 026	Reference	[1], clause 7.2.1
ir number	17_104_020	Reference	
			[2], clause 7.2.3.1.4A, table 7.2.3.1.4A.2
T00	OLD NINIL OLD LID: IIIO		table 7.2.3.1.4A.2
TSS reference	SIP NNI - SIP-I/Basic call/Se	ending_ot_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of optional Backwa ProgressIndicator element v		ulated CPG into PSTN XML
Test Purpose	Ensure that on receipt of a 1	83 Session Progress with	encapsulated CPG and the optional
•			n-band information or an appropriate
			nt. A PSTN XML ProgressIndicator
	element is present the value		
ISUP Parameter values	CPG: Event indicator = Pro		
			ormation or an appropriate pattern
	is now availab		
SIP Parameter values	183 Session Progress	· · ·	
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	ProgressIndicator		
	·		
	ProgressOctet4		
	ProgressDescript	ion> 0001000 <	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
			← 183 Session Progress
			(ACM no indication)
	183 Session Progress	←	
	Apply post test routine		
	183 Session Progress	← Apply post test rour	← 183 Session Progress (CPG)

TP number	TP_104_027	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.4A, table 7.2.3.1.4A.2	
TSS reference	SIP NNI - SIP-I/Basic call/Send	SIP NNI - SIP-I/Basic call/Sending of 18x/		
Selection criteria	PICS 6.2.1/5	<u> </u>		
Test Purpose name	Mapping of Backward call indic		PSTN XML	
	ProgressIndicator element valu			
Test Purpose	Ensure that on receipt of 183 S			
	Backward call indicator ISDN U			
	way, a 183 Session Progress is			
	the value is set to No 1 (Call is	not end-to-end ISDN: "further	progress information may be	
ICUD Devementes values	available in-band")			
ISUP Parameter values	CPG: Event indicator = Progre		od all the way	
SIP Parameter values	BCI ISDN User Part indicator = ISDN User Part not used all the way 183 Session Progress			
on rarameter values	<pre></pre> <pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>000001<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE(IAM)	
		+	183 Session Progress (ACM)	
	183 Session Progress ←	←	183 Session Progress (CPG)	
		Apply post test routine		

TP number	TP 104 028	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4A,	
			table 7.2.3.1.4A.2	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/	•	
Selection criteria	PICS 6.2.1/5			
Test Purpose name		Mapping of Backward call indicator in encapsulated CPG into PSTN XML		
	ProgressIndicator element valu			
Test Purpose	Ensure that on receipt of a 183			
	Backward call indicator ISDN U		,	
	and ISDN access indicator = T			
	sent. A PSTN XML ProgressIn		value is set to No 2	
	(Destination address is non-ISI			
ISUP Parameter values	CPG: Event indicator = Progre		n appropriate pattern is	
		vailable		
		icator = ISDN User Part used	,	
		itor = Terminating access non-	ISDN	
SIP Parameter values	183 Session Progress			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4	. 0000040 4		
Comments	ProgressDescription	1>0000010<		
	SIP NNI	MGCF	SIP-I	
Message flows	INVITE -		 .	
	INVITE	<u>-</u>	INVITE (IAM)	
		←	183 Session Progress (ACM)	
	183 Session Progress ←	+	183 Session Progress (CPG)	
		Apply post test routine	, ,	

TP number	TP_104_029	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4A,
			table 7.2.3.1.4A.2
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indic		PSTN XML
	ProgressIndicator element valu		
Test Purpose	Ensure that on receipt of a 183		
	Backward call indicator ISDN l		
	and ISDN access indicator = T		
	A PSTN XML ProgressIndicate		
ISUP Parameter values	CPG: Event indicator = Progre		n appropriate pattern is
	now a	vailable	
		icator = ISDN User Part used	,
		itor = Terminating access ISDI	N
SIP Parameter values	183 Session Progress		
	xml version="1.0" encoding=</p	="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription	n> 0000111 <	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	(INVITE) IAM
		←	183 Session Progress
			(ACM)
	183 Session Progress ←	←	183 Session Progress
			(CPG)
	Apply post test routine		

TP number	TP_104_033	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4,	
			table 7a.0f	
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/	•	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Progress Indicator	received in a ACM/CPG into 1	83	
Test Purpose	Ensure that on receipt of a 183	B Message with encapsulated A	ACM called party status no	
-	indication or CPGevent indicat	or in-band information or an ap	ppropriate pattern is now	
	available containing a ATP Pro	ogress Indicator, a 183 Session	Progress is sent. The	
	Progress Indicator IE containe	d in the ACM or CPG ATP par	ameter is mapped into the	
	PSTN XML element in the 183 Session Progress as indicated in table 6.1.1.4-2			
	 Progress Indicator receive 	ed in an ACM called party statu	is user no indication a 183	
	Session Progress is sent	in the PSTN XML element con	tains the ProgressIndicator	
	value PI_value			
	 Progress Indicator receive 	ed in an CPG 183 Session Pro	gress is sent in the PSTN XML	
		gressIndicator value PI_value	-	
ISUP Parameter values		ed party status = no indication		
		tains a Progress Indicator IE		
		ed party status = no indication		
	_	and info available'		
	CPG: ATP contains a Progres	ss Indicator IE		
SIP Parameter values	183 Session Progress:	" . (
	xml version="1.0" encoding:</th <th>="utf-8"?></th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
		ProgressOctet3		
		CodingStandard>00<		
	Location>yyyy< ProgressOctet4			
	ProgressOciet4 ProgressDescription>PI_value<			
Comments	1 Togrood Booking and			
Message flows	SIP NII	MGCF	SIP-I	
moodage news	INVITE -		INVITE (IAM)	
		-		
	CASE A			
	183 Session Progress €	·	183 Session Progress	
	Too ecosion regress	•	(ACM no indication) ATP	
			contains a Progress	
			Indicator IE	
	CASE B			
		←	183 Session Progress	
			(ACM - no indication)	
	183 Session Progress ←	·	183 Session Progress	
			(CPG - PROGRESS)	
			ATP contains a Progress	
			Indicator IE	
		Apply post test routine		

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

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'0000001'
PI_VA_2	Destination address is non-ISDN	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI VA 6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_104_034	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4,	
			table 7a.0f	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Mapping of High layer com			
Test Purpose			encapsulated ACM called party	
			ormation or an appropriate pattern is	
			gh 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		
			party status no indication, a 183	
		ent in the PSTN XML eleme	nt contains the	
	HighLayerCompatibility		indicates in based information or as	
			indicator in-band information or an Progress is sent in the PSTN XML	
		lighLayerCompatibility value		
ISUP Parameter values		alled party status = no indic		
loor rarameter values		alled party status = no indic		
		'inband info available'	ation	
	CPG: ATP contains a High			
SIP Parameter values	183 Session Progress:	· · · · · · · · · · · · · · · · · · ·		
	xml version="1.0" encod</th <th>ing="utf-8"?></th> <th></th>	ing="utf-8"?>		
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard			
	Interpretation>10			
	PresentationMet	:hod>01<		
	HLOctet4			
	HighLayerChara	cteristics>HLC_value<		
Comments	CID NINII	MOOF	OID I	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	CASE A			
	CASE A	←	← 183 Session Progress	
	183 Session Progress	-	★ 183 Session Progress (ACM)	
			(ACIVI)	
	CASE B			
	OAGE B		← 183 Session Progress	
			(ACM - no indication))	
	183 Session Progress	←	← 183 Session Progress	
	100 00001011 10g1000	-	(CPG - ATP contains a High	
			layer compatibility IE)	
		Apply post test rout		
L	1	ייים אינים		

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	[1], clause 7.2.1			
			[2], clause 7.2.3.1.4,			
			table 7a.0f			
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Low layer comp	atibility received in a 183 Sess	ion Progress with encapsulated			
	ACM/CPG into 183 Session	Progress				
Test Purpose		183 Session Progress with end				
			ation or an appropriate pattern is			
		now available, a 183 Session Progress is sent. The Low layer compatibility IE contained in the ACM ATP parameter is mapped into the LowLayerCompatibility PSTN XML element in				
			npatibility PSTN XML element in			
		is indicated in table 6.1.1.4-4				
		received in an ACM called par				
		nt in the PSTN XML element c	ontains the			
	LowLayerCompatibility					
			cator in-band information or an			
			gress is sent in the PSTN XML			
IOUD D		owLayerCompatibility value IT				
ISUP Parameter values		alled party status = no indicatio				
		alled party status = no indicatio inband info available'	OT1			
SIP Parameter values	CPG: ATP contains a Low 183 Session Progress:	layer compatibility iE				
Sir raiailletei values	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN PSTN					
	LowLayerCompatibility>					
	LLOctet3>					
	CodingStandard>00<					
	InformationTransferCapability>ITC value<					
	LLOctet4>	- 1				
	TransferMode>0	0<				
	InformationTrans	ferRate>10000<				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	→	➤ INVITE (IAM)			
	CASE A					
	183 Session Progress	←	183 Session Progress			
			(ACM)			
	CASE B					
		•	183 Session Progress			
		_	(ACM)			
	183 Session Progress	←	183 Session Progress			
		A	(CPG -Alerting)			
	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	[1], clause 7.2.1	
	11 _101_000	rtorororo	[2], clause 7.2.3.1.4,	
			table 7a.0f	
TSS reference	SIP NNI - SIP-I/Basic call/	Sending of 18x/	idalo rator	
Selection criteria	PICS 6.2.1/5			
Test Purpose name		ility received in a 183 Se	ession Progress with encapsulated	
	ACM/CPG	ACM/CPG		
Test Purpose			us no indication or CPG event indicator	
			w available, a 183 Session Progress is	
			M ATP parameter is mapped into the	
	BearerCapability PSTN XML element in the 183 Session Progress as indicated in			
	table 6.1.1.4-5.			
			party status subscriber free 183 Session	
	Progress is sent in the ITC_value	PSTN XML element co	ontains the BearerCapability value	
		eived in an CPG Event i	ndicator in-band information or an	
			ion Progress is sent in the PSTN XML	
		BearerCapability value I		
ISUP Parameter values		Called party status = no		
		Called party status = no		
		i 'inband info available'		
	CPG: ATP contains a Bea			
SIP Parameter values	183 Session Progress:	<u> •</u>		
	xml version="1.0" encod</th <th>dina="utf-8"?></th> <th></th>	dina="utf-8"?>		
	PSTN	g 5 .		
	BearerCapability			
	BCoctet3			
	CodingStandard	d>00<		
		nsferCapability>ITC_valu	ie<	
	BCoctet4	<u>-</u>		
	TransferMode>	00<		
		nsferRate>10000<		
	BCoctet5>			
	Layer1Identifica	ation>01<		
		Protocol>00011<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
			` '	
	CASE A			
	183 Session Progress	←	← 183 Session Progress	
			(ACM)	
	CASE B			
	OAOL D		← 183 Session Progress	
			(ACM)	
	183 Session Progress	←	← 183 Session Progress	
	100 Session Flogress	~ -	(CPG)	
		Apply post test	` ,	
[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	[1], clause 7.2.1	
			[2], clause 7.2.3.1.4B	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_18x/		
Selection criteria				
Test Purpose name	ACM containing CDIV informat	ion, a 181 is sent		
Test Purpose	Ensure that on receipt of a 181	Call Is Being Forwarded with	encapsulated ACM containing	
	a Redirection number, Call dive	ersion information and Generic	c notification set to 'Call is	
	diverted', a 181 Call Is Being F	orwarded is sent		
ISUP Parameter values	ACM: BCi Called party status = no indication			
	Redirection number			
	Call diversion information	on		
	Generic notification = 'C	all is diverted'		
SIP Parameter values	181 Call Is Being Forwarded			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	←		
	181 Call Is Being Forwarded	+	← 183 Session Progress (ACM)	
		Apply post test routine		

TP number	TP 104 038	Reference	[1],	clauses 7.2.1, 7.2.3.1.4B
TSS reference	SIP NNI - SIP-I/Basic call/Sending of 18x/			
Selection criteria	PICS 6.2.1/9 AND PICS 6.3.2/5	5		
Test Purpose name	ACM containing CDIV informat Forwarded is sent a P-Early-Me		ilable,	, a 181 Call Is Being
Test Purpose	Ensure that on receipt of a 181 Call Is Being Forwarded with encapsulated 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: <indicati< th=""><th>ing authorization of early med</th><th>dia></th><th></th></indicati<>	ing authorization of early med	dia>	
Comments		-		
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	→	→	INVITE (IAM)
	100 Trying	←		
	181 Call Is Being Forwarded	←	←	183 Session Progress (ACM)
		Apply post test routine		

TP number	TP_104_040	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.4B		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/				
Selection criteria	PICS 6.3.2/5				
Test Purpose name	CPG containing CDIV informat	ion, a 181 is sent			
Test Purpose	Ensure that on receipt of a 181	Call Is Being Forwarded with	encapsulated CPG Event		
	Indicator set to Progress contain	ining a Redirection number, Ca	all diversion information and		
	Generic notification set to 'Call		g Forwarded is sent		
ISUP Parameter values	CPG: Event Indicator set to Progress				
	Redirection number				
	Call diversion information				
	Generic notification = 'C	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	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	180/183	←	← 180/183 (ACM)		
	181 Call Is Being Forwarded	←	← 183 Session Progress		
	Ĭ		(CPG)		
		Apply post test routine	, ,		

TP number	TP 104 041	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.4B
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/9 AND PICS 6.3.2/5		
Test Purpose name	ACM containing CDIV information and oBCi inband info available, a 181 is sent a P-Early-Media present		
Test Purpose	Ensure that on receipt of a 181 Call Is Being Forwarded with encapsulated 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 Inband 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 Redirection number Call diversion information Generic notification = 'C	on	
SIP Parameter values	INVITE: Supported: 100rel P-Early-Media: < authoriza 181 Call Is Being Forwarded P-Early-Media: <indicat< th=""><th>tion of early media></th><th>ia></th></indicat<>	tion of early media>	ia>
Comments		•	
Message flows	SIP NNI INVITE 180/183 181 Call Is Being Forwarded	=	SIP-I → INVITE (IAM) ← 180/183 (ACM) ← 183 Session Progress (CPG)

6.1.1.5 Sending of the 200 OK (INVITE)

TP number	TP_105_001	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.5
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_200_OK/	
Selection criteria			
Test Purpose name	A 200 OK with encapsulated	ANM is received a 200 OK is se	ent
Test Purpose	Ensure that on receipt of a 20	00 OK (ANM) the SUT sends a 2	200 OK INVITE
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	INVITE (IAM)
	100 Trying	←	100 Trying
	180 Ringing	+	180 Ringing (ACM)
	200 OK (INVITE)	+	200 OK (INVITE) (ANM)
	ACK	→	ACK
		Apply post test routine	

TP number	TP 105 002	Referen	ice	[1], clause 7.2.1
				[2], clause 7.2.3.1.5
TSS reference	SIP NNI - SIP-I/Basic c	all/Sending_of_2	200_OK/	
Selection criteria				
Test Purpose name	A 200 OK with encapsu	ulated CON is red	ceived a 200 OK is se	ent
Test Purpose	Ensure that on receipt	of a 200 OK (CO	N) the SUT sends a	200 OK (INVITE)
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP NNI		MGCF	SIP-I
	INVITE	→	→	INVITE (IAM)
	100 Trying	←	←	100 Trying
	200 OK (INVITE)	←	←	200 OK (INVITE) (CON)
	ACK	→	→	ACK
		Apply	post test routine	

TSS reference SIP NNI - SIP-I/Basic call/Sending of 200 OK/ Selection criteria PICS 6.2.1/5 Progress indicator received in 200 OK (ANM) with encapsulated ANM/CON is map PSTN XML ProgressIndicator Test Purpose Ensure that on receipt of a 200 OK (INVITE) with encapsulated ANM/CON and an containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen	oped into				
TSS reference SIP NNI - SIP-I/Basic call/Sending_of_200_OK/ Selection criteria PICS 6.2.1/5 Test Purpose name PSTN XML ProgressIndicator Test Purpose Ensure that on receipt of a 200 OK (INVITE) with encapsulated ANM/CON and an containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen	ATP				
Selection criteria PICS 6.2.1/5 Test Purpose name Progress indicator received in 200 OK (ANM) with encapsulated ANM/CON is map PSTN XML ProgressIndicator Test Purpose Ensure that on receipt of a 200 OK (INVITE) with encapsulated ANM/CON and an containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen	ATP				
Test Purpose name Progress indicator received in 200 OK (ANM) with encapsulated ANM/CON is map PSTN XML ProgressIndicator Test Purpose Ensure that on receipt of a 200 OK (INVITE) with encapsulated ANM/CON and an containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen	ATP				
Test Purpose Ensure that on receipt of a 200 OK (INVITE) with encapsulated ANM/CON and an containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen	ATP				
Test Purpose Ensure that on receipt of a 200 OK (INVITE) with encapsulated ANM/CON and an containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen					
containing a Progress indicator IE set to value PI_value a, 200 OK (INVITE) is sen					
	t				
The DOTAL VALL December 15 of a section is a set on the site of a set of its standing to the late of A A E A					
The PSTN XML ProgressIndicator value is set as indicated in table 6.1.1.5-1					
ISUP Parameter values ANM/CON: ATP contains a Progress Indicator IE value PI_value					
SIP Parameter values 200 OK INVITE:					
<pre><?xml version="1.0" encoding="utf-8"?></pre>					
PSTN					
ProgressIndicator					
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
ProgressOctet4					
ProgressDescription>PI_value<					
Comments					
Message flows SIP NNI MGCF SIP-I					
INVITE → INVITE (IAM)					
CASE A					
180 Ringing ← ← 180 Ringing (ACM -	free)				
200 OK (INVITE)	NM)				
ACK → ACK	, , , ,				
CASE B					
200 OK (INVITE) ← 200 OK (INVITE) CO	NC				
ACK → 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	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_105_004	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.5,			
			table 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic call/Sending of 200 OK/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	High layer compatibility receive		encapsulated ANM/CON is			
	mapped into PSTN XML HighL					
Test Purpose	Ensure that on receipt of a 200					
	containing a High layer compa the PSTN XML HighLayerCom		value, a 200 OK INVITE is sent. icated in table 6.1.1.5-2			
ISUP Parameter values	ANM/CON: ATP contains a					
SIP Parameter values	200 OK INVITE:	J J 1 J	<u> </u>			
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00					
	Interpretation>100<					
	PresentationMethod	i>01<				
	HLOctet4					
0	HighLayerCharacte	ristics>HLC_value<				
Comments	CID NINII	MOCE	SIP-I			
Message flows	SIP NNI	MGCF				
	INVITE	•	→ INVITE (IAM)			
	CASE A					
	180 Ringing ←	•	← 180 Ringing (ACM)			
	200 OK (INVITE)		€ 200 OK (INVITE) (ANM)			
	ACK · ·	·	→ ACK ` ´` ´			
	CASE B					
	200 OK (INVITE)	•	€ 200 OK (INVITE) CON			
	ACK -	·	→ ACK `´			
		Apply post test routine	•			

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

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

TP number	TP_105_005	Reference	[1], clause 7.2.1				
			[2], clause 7.2.3.1.5,				
			table 7.2.3.1.5.1				
TSS reference	SIP NNI - SIP-I/Basic call/Se	ending_of_200_OK/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name		ved in 200 OK (ANM) with enca	psulated ANM/CON is mapped				
	into PSTN XML LowLayerCo						
Test Purpose		00 OK (INVITE) with encapsulate					
		patibility IE set to value ITC_valu					
		mpatibility value is set as indica					
ISUP Parameter values		a Low layer compatibility IE valu	ie ITC_value				
SIP Parameter values	200 OK INVITE:						
	xml version="1.0" encodir</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>					
	PSTN						
	LowLayerCompatibility>						
	LLOctet3>	00.4					
	CodingStandard>						
	LLOctet4>	erCapability> ITC_value <					
	TransferMode>00	1-					
	LLOctet5>	InformationTransferRate>10000<					
	Layer1Identification>01 </th						
	UserInfoLayer1Protocol> ITC_value </th						
Comments	When the 'XML UserInfoLayer1Protocol' element is absent, the entire 'LLOctet5' element is						
Commonts	absent						
ACKMessage flows	SIP NNI	MGCF	SIP-I				
Tronume Souge no ne	INVITE	→ →	INVITE (IAM)				
	CASE A						
	180 Ringing						
		Too ranging (Acivi nee)					
	200 OK (INVITE) ← 200 OK (INVITE) ANM						
	ACK → ACK						
		-					
	CASE B						
	200 OK (INVITE) ← 200 OK (INVITE) (CON)						
	ACK	→ →	ACK				
		Apply post test routine					
1	Αρρίγ μους τέρε τουτιπέ						

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

ITC_value	LLC Information transfer	XML LLC	XML UserInfoLayer1Protocol
	capability	InformationTransferCapability	
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	[1], clause 7.2.1			
			[2], clause 7.2.3.1.5, table 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic ca	all/Sending_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Bearer Capability receivinto PSTN XML Bearer		ith encapsulated ANM/CON is mapped			
Test Purpose			encapsulated ANM/CON and an ATP			
	containing a Bearer Car	pability IE set to value ITC	C_value, a 200 OK INVITE is sent			
	The PSTN XML Bearer	Capability value is set as	indicated in table 6.1.1.5-4			
ISUP Parameter values		ains a Bearer Capability I	E value ITC_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" end</th <th>coding="utf-8"?></th> <th></th>	coding="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3	lord>00<				
	CodingStand	ransferCapability> ITC_va	due			
	BCoctet4	ransier Capability - 11 C_va	ilue \			
	TransferMod	e>00<				
		ransferRate>10000<				
	BCoctet5>					
	Layer1Identif	Layer1Identification>01<				
	UserInfoLaye	UserInfoLayer1Protocol>ITC_value<				
Comments						
Message flows	SIP NNI INVITE	MGCF →	SIP-I → INVITE (IAM)			
	CASE A					
	180 Ringing	←	← 180 Ringing (ACM- free)			
	200 OK (INVITE) ← 200 OK (INVITE) ANM					
	ACK →					
	CASE B	_				
	200 OK (INVITE) ACK	← →	← 200 OK (INVITE) (CON) ACK			
		Apply post tes	t routine			

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

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

TP number	TP_105_007	Reference	[1], clause 7.2.1
			[2], clause 7.2.3.1.5,
			table 7.2.3.1.5.2
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_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 200		
			I the way, a 200 OK INVITE is
	sent and the PSTN XML Progr	ressIndicator value is set to 1 (Call is not end-to-end ISDN:
	further progress information m	ay be available in-band)	
ISUP Parameter values	ANM/CON: BCi ISDN User I	Part indicator = ISDN User Par	t not used all the way
SIP Parameter values	200 OK INVITE		
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription	n> 0000001 <	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	INVITE (IAM)
	CASE A		
	180 Ringing ←	·	180 Ringing (ACM- free)
	200 OK (INVITE)	·	200 OK (INVITE) ANM
	ACK -	· -	ACK
	CASE B		
	200 OK (INVITE) ←	· ←	200 OK (INVITE) (CON)
	ACK -	→	ACK
		Apply post test routine	

TP number	TP 105 008	Reference	[1], clause 7.2.1			
		110.0.0.0	[2], clause 7.2.3.1.5,			
			table 7.2.3.1.5.2			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of 200 OK/	1.2.6.1.6.2			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Backward call indicator mappe	d into PSTN XML ProgressInd	licator value 2			
Test Purpose	Ensure that on receipt of a 200					
-	backward call indicator is set to	ISDN User Part used all the	way and Terminating			
	access non-ISDN, a 200 OK I	NVITE is sent and the PSTN λ	(ML ProgressIndicator value is			
	set to 2 (Destination address is					
ISUP Parameter values	ANM/CON: BCi ISDN User F					
		icator = Terminating access n	on-ISDN			
SIP Parameter values	200 OK INVITE					
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>				
	PSTN					
	ProgressIndicator					
	Dragger Octob					
	•	ProgressOctet4				
Comments	ProgressDescription	>0000010<				
	SIP NNI	MGCF	SIP-I			
Message flows	INVITE -	WIGCF	_			
	INVITE	7	INVITE (IAM)			
	CASE A					
	180 Ringing \leftarrow	←	180 Ringing (ACM - free)			
	100 Kinging	•	100 Kinging (ACM - Iree)			
	200 OK (INVITE)	←	200 OK (INVITE) (ANM)			
	ACK ACK					
	ACR 7 ACR					
	CASE B					
	200 OK (INVITE)	4	200 OK (INVITE) (CON)			
	ACK →		ACK			
	AUN	Apply post test routine	AOR			
		Apply post test routille				

TP number	TP_105_009	Reference		[1], clause 7.2.1			
				[2], clause 7.2.3.1.5,			
				table 7.2.3.1.5.2			
TSS reference	SIP NNI - SIP-I/Basic c	all/Sending_of_200_	OK/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Backward call indicator	mapped into PSTN	XML Progressind	dicator value 7			
Test Purpose				d ANM/CON and the backward			
				Terminating access ISDN, a			
	200 OK INVITE is sent						
ISUP Parameter values		NUser Part indicator					
		cess indicator = Term	ninating access I	SDN			
SIP Parameter values	200 OK INVITE						
	xml version="1.0" en</th <th>coding="utf-8"?></th> <th></th> <th></th>	coding="utf-8"?>					
	PSTN						
	ProgressIndicator						
	<u></u>						
	ProgressOctet4						
_	ProgressDes	scription> 0000111 <					
Comments							
Message flows	SIP NNI		GCF	SIP-I			
	INVITE	→	→	INVITE (IAM)			
	CASE A						
	180 Ringing	←	+	180 Ringing (ACM)			
	000 014 (151) (175)		-	OOO OK (INI) (ITE) (ANIM)			
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)			
	ACK	→	→	ACK			
	CASE B						
	200 OK (INVITE)	←	4	200 OK (INVITE) (CON)			
	ACK	→	→	ACK			
	ACK	<u>-</u>	-	AON			
		Apply pos	i iesi rouline	Apply post test routine			

TP number	TP_105_010	Refere	nce	[1], clause 7.2.1 [2], clause 7.2.3.1.5,		
				table 7.2.3.1.5.2		
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_	200_OK/	•		
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Optional backward call	indicator mappe	ed into PSTN XML Pr	ogressIndicator value 8		
Test Purpose				d ANM/CON and the optional		
				ropriate pattern is now		
				gressIndicator value is set to 8		
	(In-band information or					
ISUP Parameter values			ndicator In-band infor			
		nformation or a	n appropriate pattern	is now available		
SIP Parameter values	200 OK INVITE					
	xml version="1.0" en</th <th>icoding="utf-8"?</th> <th>></th> <th></th>	icoding="utf-8"?	>			
	PSTN Dra succeede diseates					
	ProgressIndicator					
	ProgressOctet4					
		scription>00010	00<			
Comments	1 Togressber	3011ption- 00010	-			
Message flows	SIP NNI		MGCF	SIP-I		
	INVITE	→	→	INVITE (IAM)		
				,		
	CASE A					
	180 Ringing ← ← 180 Ringing (ACM)					
				,		
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)		
	ACK → ACK					
	CASE B					
	200 OK (INVITE)	←	←	200 OK (INVITE) CON		
	ACK	→	→	ACK		
		Appl	y post test routine			

TP number	TP_105_011	Reference	e	[1], clause 7.2.1			
				[2], clause 7.2.3.1.5,			
				table 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic call	/Sending_of_20	00_OK/				
Selection criteria	PICS 6.2.1/5						
Test Purpose name		า 200 OK (ANM) with encapsulated	ANM/CON, no BC present in			
Took Durmana	ATP	a Transmission	madium usad nara	mater act to anacab in the 200			
Test Purpose		Ensure that on receipt of a Transmission medium used parameter set to speech in the 200 OK INVITE with encapsulated ANM/CON, a 200 OK INVITE is sent and a PSTN XML					
				Capability is set to Speech			
ISUP Parameter values	IAM:	io procent the i	THO THAT GOT THAT GOT TO	capability to cot to opecon			
	TMR = second Informatio	nTransferCapa	bility				
	TMR prime = first Informa						
	USI = first BearerCapabili		,				
	USI prime = second Bear	erCapability					
	ANM/CON: Transmission	on medium use	d = speech				
SIP Parameter values	INVITE: PSTN XML MII						
	xml version="1.0" enco</th <th>ding="utf-8"?></th> <th></th> <th></th>	ding="utf-8"?>					
	PSTN Page Canability						
	BearerCapability BCoctet3						
	CodingStandar	-d>00<					
		nsferCapability:	>00000<				
	BearerCapability						
	BCoctet3						
	CodingStandar						
	InformationTra	nsferCapability:	>10001<				
	200 OK INVITE						
	200 OK INVITE xml version="1.0" enco</th <th>dina="utf_8"2></th> <th></th> <th></th>	dina="utf_8"2>					
	PSTN	ding- dii-0 :>					
	BearerCapability						
	BCoctet3						
	CodingStandar	rd>00<					
	InformationTra	nsferCapability:	>00000<				
0	•••						
Comments Manager flavo	CID NINII		MCCE	CID I			
Message flows	SIP NNI INVITE	→	MGCF →	SIP-I			
	IIIVIIE	7	7	INVITE (IAM)			
	CASE A						
	180 Ringing	←	←	180 Ringing (ACM - free)			
	100 Tunging	•	•	roo runging (room moo)			
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)			
	ACK						
	CASE B						
	200 OK (INVITE)	←	←	200 OK (CON)			
	ACK	→	→	ACK			
	Apply post test routine						

TP number	TP_105_012	Refe	rence	[1], clause 7.2.1		
	11 _100_012	Itticio	TOTIOC	[2], clause 7.2.3.1.5,		
				table 7.2.3.1.5.1		
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5	bail/ochding_c	<u> </u>			
Test Purpose name		z audio in 200) OK (ANM) with enc	apsulated ANM/CON, no BC		
l'est i dipose name	present in ATP	2 audio iii 200	OR (ANN) WITH CHO	apsulated AMM/OOM, NO DO		
Test Purpose		of a Transmis	sion medium used n	arameter set to 3,1 kHz audio in		
l cat i di posc				OK INVITE is sent and a PSTN		
				TransferCapability is set to		
	3,1 kHz audio	cicinciit is pic	Scrit tric information	Transicioapability is set to		
ISUP Parameter values	IAM:					
loor rarameter values	TMR = second Informa	ationTransfer(`anahility			
	TMR prime = first Informa					
	USI = first BearerCapa		-i Capability			
	USI prime = second Be		.,			
	ANM/CON: Transmis			io		
SIP Parameter values	INVITE: PSTN XML		useu – 5, i ki iz auu	10		
SIF Farailleter values	<pre><?xml version="1.0" er</pre></pre>		"2>			
	PSTN	icouing- uti-c	! /			
	BearerCapability					
	BCoctet3					
		dard>00<				
	CodingStand		silitus 40000			
	mormation	FransferCapal	ollity > 10000 <			
	BearerCapability					
	BCoctet3					
	CodingStan	dord>00/				
			silitus 40004 z			
	mormation	InformationTransferCapability>10001<				
	••••					
	200 OK INVITE					
	<pre><?xml version="1.0" er</pre></pre>	ooding="utf 0	"2>			
	PSTN	icouing- un-c	! ~			
	BearerCapability BCoctet3					
		dard>00<				
	CodingStan	uaru>∪∪< FransferCapal	sility > 10000 <			
	Illomation	i ransiei Capai	Jility 10000			
Comments	•••					
Message flows	SIP NNI		MGCF	SIP-I		
wessage nows	INVITE	→	WIGGI	→ INVITE (IAM)		
	IIIVIIE	7		INVITE (IAW)		
	CASE A					
	CASE A	-		400 Diamin (ACM)		
	180 Ringing	←		← 180 Ringing (ACM)		
	000 014 (111) (175)	-		7		
	200 OK (INVITE)	(← 200 OK INVITE (ANM)		
	ACK	→				
	CASE B					
	200 OK (INVITE)	←		← 200 OK (INVITE) CON		
ACK → ACK						
	Apply post test routine					
	Apply post test routine			-		

TP number	TP_105_013	Refe	rence	[1], clause 7.2.1 [2], clause 7.2.3.1.5		
TSS reference	SID NINI - SID-I/Rasic (call/Sending (of 200 OK/	[[2], clause 7.2.3.1.5		
Selection criteria	PICS 6.2.1/5	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/				
Test Purpose name	I .	Receipt of TMU, BC present in ATP PSTN XML BearerCapability sent in 200 OK				
Test Purpose		Ensure that on receipt of a Transmission medium used parameter and in the ATP a Bearer				
rest Fulpose		Capability IE in the 200 OK INVITE with encapsulated ANM/CON, a 200 OK INVITE is sent				
				ent the InformationTransferCapability is		
	set as indicated in tabl		oronioni io proce	The information realistic Capability to		
ISUP Parameter values	IAM:					
	TMR = second Informa	ationTransferC	Capability			
	TMR prime = first Infor					
	USI = first BearerCapa		. ,			
	USI prime = second Be	earerCapabilit				
	ANM/CON: Transmi	ssion medium	used, ATP Bea	rer Capability IE		
SIP Parameter values	200 OK INVITE					
	xml version="1.0" er</th <th>ncoding="utf-8</th> <th>3"?></th> <th></th>	ncoding="utf-8	3"?>			
	PSTN					
		BearerCapability				
		BCoctet3				
		CodingStandard>00 InformationTransferCapability>ITC_value				
	Information	i ranster Capai	ollity>11C_value	;<		
Comments	•••					
Message flows	SIP NNI		MGCF	SIP-I		
Message nows	INVITE	→	WIGGI	→ INVITE (IAM)		
	111111111111111111111111111111111111111	•		2 HAVITE (IMM)		
	CASE A					
	180 Ringing	←		← 180 Ringing (ACM)		
	100 runging	•		t 100 ranging (7 town)		
	200 OK (INVITE)	←		← 200 OK (INVITE) (ANM)		
	ACK	→		= 200 011 (111112) (111111)		
	7.5.1	_				
	CASE B					
	200 OK (INVITE)	←		← CON		
	ACK	→				
		Ap	ply post test ro	outine		

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

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

6.1.1.6 Sending of the Release message (REL)

TP number	TP_106_001	Reference	[1], clause 7.2.2			
			[2], clause 7.2.3.1.7			
TSS reference	SIP NNI - SIP-I/Basic c	all/Sending_of_REL/				
Selection criteria						
Test Purpose name	BYE received in confirm REL is sent	ned dialogue no Reason he	ader included, a BYE with encapsulated			
Test Purpose	present, a BYE with en	Ensure that on receipt of a BYE request in confirmed dialogue and no Reason header is present, a BYE with encapsulated 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		•	<u>-</u> ·			
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE 100 Trying	→ ←	→ INVITE (IAM)			
	180 Ringing	←	← 180 Ringing (ACM - free)			
	200 OK (INVITE) ACK	← →	← 200 OK (INVITE) (ANM)			
	BYE 200 OK (BYE)	→ ←	→ BYE (REL)← 200 OK (BYE) (RLC)			

TP number	TP 106 002	Reference		[1], clause 7.2.2
Ti Tidilibei	11 _100_002	Reference		[2], clause 7.2.3.1.7
TCC reference	CID NINI CID I/Desis cell/	Conding of DEL/		[[2], Glause 1.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/	Sending_oi_REL/		
Selection criteria				
Test Purpose name	BYE received in confirmed	d dialogue Reason header	included	I, a BYE with encapsulated
	REL is sent			
Test Purpose	Ensure that on receipt of a	BYE request in confirmed	d dialogu	e and a Reason header is
•				e cause indicator is set to the
	Reason header cause val			
ISUP Parameter values	REL: Cause indicator Ca			eyerra miterwerning penit
130F Farameter values		—		n noint
OID Developed		tion = network beyond inte	HWOIKING	у роши
SIP Parameter values	BYE: Reason: Q.850 [i.3];			
Comments	The Cause_value is a PI	(IT parameter		
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	→	→	INVITE (IAM)
	100 Trying	←		,
	180 Ringing	←	←	180 Ringing (ACM - free)
	100 Kinging		•	100 Kinging (ACM - nee)
	OOO OK (INI) (ITE)	7	,	COO OK (INIVITE) (ANIMA)
	200 OK (INVITE)	←	+	200 OK (INVITE) (ANM)
	ACK	→	→	ACK
	BYE	→	→	BYE (REL)
	200 OK (BYE)	-	É	200 OK (BYE) (RLC)

TP number	TP_106_003	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.7	
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_REL/		
Selection criteria				
Test Purpose name	BYE received in early dialogue	e no Reason header included, a	a BYE with encapsulated REL	
	is sent			
Test Purpose		E request in early dialogue and		
	present, a BYE with encapsula			
	16 (normal clearing), the locati	on is set to 'network beyond in	terworking point'	
ISUP Parameter values	REL: Cause indicator Cause Value = 16 (normal clearing)			
	Location	= network beyond interworking	g point	
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	· -	INVITE (IAM)	
	18x ←	· ←	18x	
			(ACM (no indication or free)	
	BYE -	· -	BYE (REL)	
	200 OK (BYE) ←	· ←	200 OK (BYE) RLC	
	487 Request Terminated ←	· ←	487 Request Terminated	
	ACK -	→	ACK .	

TD	TD 400 004	D ([4] I 7.00
TP number	TP_106_004	Reference	[1], clause 7.2.2
			[2], clause 7.2.3.1.7
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_REL/	
Selection criteria			
Test Purpose name	BYE received in early dialogue	Reason header included, a B	YE with encapsulated REL is
	sent		
Test Purpose	Ensure that on receipt of a BYE		
	a BYE with encapsulated REL	message is sent. The cause in	dicator is set to the Reason
	header cause value, the location	n is set to 'network beyond into	erworking point'
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value	
	Location	= network beyond interworking	g point
SIP Parameter values	BYE: Reason: Q.850 [i.3]; caus		
Comments	The Cause_value is a PIXIT page	arameter	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	18x ←	←	18x
			(ACM (no indication or free)
	BYE →	→	BYE (REL)
	200 OK (BYE) ←	←	200 OK (BYE) RLC
	487 Request Terminated ←	←	487 Request Terminated
	ACK →	→	ACK

TP number	TP_106_005	Reference	[1], clauses 7.2.2 and 7.2.3.1.7	
TSS reference	SIP NNI - SIP-I/Basic call/Ser	ding_of_REL/		
Selection criteria				
Test Purpose name	CANCEL received in early dia encapsulated REL is sent	logue no Reason header includ	led, a CANCEL with	
Test Purpose	Ensure that on receipt of a CANCEL request in early dialogue and no Reason header is present, a CANCEL with encapsulated REL message is sent. The cause indicator is set to No. 16 (normal clearing), the location is set to 'network beyond interworking point'			
ISUP Parameter values	REL: Cause indicator Cause Value = 31 (normal unspecified) Location = network beyond interworking point			
SIP Parameter values		-		
Comments				
Message flows	SIP NNI INVITE 18x CANCEL 200 OK (CANCEL) 487 Request Terminated ACK	÷ ÷ ÷	SIP-I INVITE (IAM) 18x (ACM (no indication or free) CANCEL (REL) 200 OK (CANCEL)RLC 487 Request Terminated ACK	

TP number	TP 106 006	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_REL/	16 47		
Selection criteria					
Test Purpose name	CANCEL received in early dial	ogue Reason header include	d, a CANCEL with		
	encapsulated REL is sent				
Test Purpose	Ensure that on receipt of a CA	NCEL request in early dialogu	ie and a Reason header is		
	present, a CANCEL with encap	osulated REL message is sen	t. The cause indicator is set to		
	the Reason header cause valu	e, the location is set to 'netwo	ork beyond interworking point'		
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value			
		= network beyond interworking	g point		
SIP Parameter values	CANCEL: Reason: Q.850 [i.3];	cause = Cause_value			
Comments	The Cause_value is a PIXIT p	arameter			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	18x ←	· ←	18x		
			(ACM (no indication or free)		
	CANCEL → CANCEL (REL)				
	200 OK (CANCEL)	· ←	200 OK (CANCEL)RLC		
	487 Request Terminated	· ←	487 Request Terminated		
	ACK ·	→	ACK .		

TP number	TP_106_007	Reference	[1], clause 7.2.2			
			[2], clause 7.2.3.1.7			
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_REL/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	BYE received in confirmed dia					
	with encapsulated REL is sent containing a High layer compatibility IE					
Test Purpose		Ensure that on receipt of a BYE request in confirmed dialogue and a PSTN XML				
	HighLayerCompatibility is pres					
	present containing a High laye	r compatibility IE. The value	is mapped as indicated in			
	table 6.1.1.6-1					
ISUP Parameter values	REL: ATP High layer compat	ibility High Layer Characteris	stic = HLC_value			
SIP Parameter values	BYE:					
	xml version="1.0" encoding=</p	="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacte	ristics>HLC_value<				
Comments	OID NINII	11005	OID I			
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	-	INVITE (IAM)			
	100 Trying		100 0: : (1011 ()			
	180 Ringing ← 180 Ringing (ACM -free)					
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)					
	ACK -	•				
	BYE -	· -	BYE (REL)			
	200 OK (BYE)		- 200 OK (RLC)			

TP number	TP_106_008	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	BYE received in early dialogue encapsulated REL is sent conta				
Test Purpose	Ensure that on receipt of a BYE request in early dialogue and a PSTN XML HighLayerCompatibility is present, a BYE with encapsulated REL is sent and an ATP is present containing a High layer compatibility IE. The value is mapped as indicated in table 6.1.1.6-1				
ISUP Parameter values	REL: ATP High layer compati	bility High Layer Characteristic	c = HLC_value		
SIP Parameter values	BYE: xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4 HighLayerCharacter	< >01<			
Comments					
Message flows	SIP NNI INVITE →	MGCF →	SIP-I INVITE (IAM)		
	BYE 200 OK (BYE) 487 Request Terminated ACK →	→ ← ←	BYE (REL) 200 OK (INVITE) RLC 487 Request Terminated ACK		

TP number	TP_106_009	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Sei	SIP NNI - SIP-I/Basic call/Sending of REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CANCEL received in early dia	alogue PSTN XML HighLayerC	ompatibility present, a		
	CANCEL with encapsulated F	REL is sent containing a High la	ayer compatibility IE		
Test Purpose		ANCEL request in early dialogu			
		sent, a CANCEL with encapsu			
	is present containing a High I	ayer compatibility IE. The value	e is mapped as indicated in		
	table 6.1.1.6-1				
ISUP Parameter values	REL: ATP High layer compa	tibility High Layer Characterist	ic = HLC_value		
SIP Parameter values	CANCEL				
	xml version="1.0" encoding</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>			
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacteristics> HLC_value <				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	CANCEL -	→	CANCEL (REL)		
	200 OK (CANCEL)	÷	200 OK (CANCEL) (RLC)		
	,	÷	487 Request Terminated		
	•	→	ACK		

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

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

TP number	TP 106 010	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Sending of REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	BYE received in confirmed dialogue PSTN XML LowLayerCompatibility present, a BYE with encapsulated REL is sent containing a Low layer compatibility IE				
Test Purpose	Ensure that on receipt of a BYE request in confirmed dialogue and a PSTN XML LowLayerCompatibility is present, a BYE with encapsulated 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 compatit	oility Information Transfer Cap	pability = ITC_value		
SIP Parameter values	xml version="1.0" encoding=</th <th></th> <th>•</th>		•		
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←	←	100 Trying		
	180 Ringing ← 180 Ringing (ACM - free)				
	200 OK (INVITE) ← 200 OK (ANM)				
	ACK → ACK				
	BYE → BYE (REL)				
	200 OK (BYE) ←	+	200 OK (BYE) (RLC)		

TP number	TP 106 011	Reference	[1], clause 7.2.2		
	11 _100_011	TKO GO GO GO	[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Sending of REL/				
Selection criteria	PICS 6.2.1/5	9_0:_: \			
Test Purpose name	BYE received in early dialogue	PSTN XML LowLaverCompat	tibility present a BYF with		
l cot i ai poco manio	encapsulated REL is sent containing a Low layer compatibility IE				
Test Purpose	Ensure that on receipt of a BYE				
l cot i ai poco	LowLayerCompatibility is prese				
	present containing a Low layer				
	table 6.1.1.6-2	pa			
ISUP Parameter values	REL: ATP Low layer compatit	oility Information Transfer Cap	ability = ITC value		
SIP Parameter values	BYE		, =		
	xml version="1.0" encoding=</th <th>"utf-8"?></th> <th></th>	"utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
			,		
	BYE →	→	BYE (RE)L		
	200 OK (BYE) ←	←	200 OK (BYE) (RLC)		
	487 Request Terminated ←	←	487 Request Terminated		
	ACK →	→	ACK		

TP number	TP_106_012	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CANCEL received in early diale				
	with encapsulated REL is sent				
Test Purpose	Ensure that on receipt of a CAI				
	LowLayerCompatibility is prese				
	present containing a Low layer	compatibility IE. The value is n	napped as indicated in		
	table 6.1.1.6-2				
ISUP Parameter values	REL: ATP Low layer compatil		ability = ITC_value		
SIP Parameter values	CANCEL xml version="1.0"</th <th>encoding="utf-8"?></th> <th></th>	encoding="utf-8"?>			
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments	0.5				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	CANCEL -	→	CANCEL (REL)		
	200 OK (CANCEL) ←	←	200 OK (CANCEL) (RLC)		
	487 Request Terminated ←	+	487 Request Terminated		
	ACK →	→	ACK		

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	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rec	eipt_of_REL/			
Selection criteria					
Test Purpose name	A BYE with Reason header an	id REL is received, a BYE requ	uest is sent		
Test Purpose	Ensure that on receipt of a BY	E message with a Reason hea	ader and encapsulated REL		
	message in the confirmed diale	ogue, a BYE is sent. The Reas	son header is present and the		
	cause value is set to the receiv	ved cause value in the Reasor	n header		
ISUP Parameter values					
SIP Parameter values	BYE: Reason: Q.850 [i.3]; ca	use = Cause_value			
Comments	Cause_value is a PIXIT param	neter			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	100 Trying ←	·	100 Trying		
	180 Ringing ←	·	180 Ringing (ACM - free)		
	200 OK (INVITE)	·	200 OK (INVITE) (ANM)		
	ACK → ACK				
	BYE •	· ←	BYE (REL)		
	200 OK (BYE)	→	200 OK (BYE) (RLC)		

TP number	TP_107_001A	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/			
Selection criteria					
Test Purpose name	A BYE with encapsulated REL	is received, a BYE request is	sent		
Test Purpose	Ensure that on receipt of a BYE	with encapsulated REL mes	sage in the confirmed		
	dialogue, a BYE is sent				
	Ensure that if the Reason Head	der field was not received, the	n the received ISUP Cause		
	value being received in the end	apsulated ISUP REL messag	e shall be mapped into SIP		
	Reason header fields as specif	ied			
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value			
SIP Parameter values	BYE: Reason: Q.850 [i.3]; cau	ise = Cause_value			
Comments	Cause_value is a PIXIT parame	eter			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←	←	100 Trying		
	180 Ringing ← 180 Ringing (ACM - fee)				
	200 OK (INVITE) ←				
	ACK → ACK				
	BYE ←	+	BYE (REL)		
	200 OK (BYE) →	→	200 OK (BYE) (RLC)		

TP number	TP_107_002	Reference	[1], clause 7.2.2 [2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call/Rece	ipt_of_REL/	16 32	
Selection criteria				
Test Purpose name		A SIP_final_Response with encapsulated REL and Reason header is received before an early dialogue is established, a final response is sent		
Test Purpose	Ensure that on receipt of a SIP_final_Response with Reason header and encapsulated REL message before an early dialogue is established a SIP final response is sent. The received SIP final response is sent containing the received Reason header field and without the ISUP REL message			
ISUP Parameter values				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850 [i.3]; cause = Cause_value			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←	←	Trying	
	SIP_final_Response ← ACK →	← →	SIP_final_Response (REL) ACK (RLC)	

TP number	TP 107 002A	Reference	[1], clause 7.2.2	
			[2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/		
Selection criteria				
Test Purpose name	A SIP_final_Response with end			
	before an early dialogue is esta	ablished, a final response is s	ent	
Test Purpose	Ensure that on receipt of a SIP			
	Reason header was not receive			
	response is sent. The Cause va			
	cause parameter of the sent fin			
	SIP_final_Response is derived	d from the interworked Reaso	n header as indicated in	
	table 6.1.1.7-1a			
ISUP Parameter values	REL: Cause indicator Cause '	Value = Cause_value		
SIP Parameter values	4xx/5xx/6xx:			
	Reason: Q.850 [i.3]; cause = Cause_value			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←	←	Trying	
	SIP final Response	←	SIP-I final Response (REL)	
	ACK →	→	ACK (RLC)	

TP number	TP_107_002B	Reference	[1],clause 7.2.2
			[2], clause 7.2.3.1.8, table 9
			and clause 7.2.3.2.12, table 18
TSS reference	SIP NNI - SIP-I/Basic call	/Receipt_of_REL/	
Selection criteria			
Test Purpose name	A SIP_final_Response wi established, a final response		received before an early dialogue is
Test Purpose			thout Reason header and without
			is established a SIP final response is
	·	, ,	n the received Status code as
	indicated in table 6.1.1.7-	1. The status code of the se	nt SIP_final_Response is derived
	from the interworked Rea	son header as indicated in t	able 6.1.1.7-1
ISUP Parameter values			
SIP Parameter values	4xx/5xx/6xx: Reason: Q.8	350 [i.3]; cause = Cause_va	lue
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→	→ INVITE (IAM)
	100 Trying	←	← Trying
	SIP_final_Response	←	← SIP-I_final_Respons
	ACK	→	→ ACK

TP number	TP 107 003	Reference	[1], clause 7.2.2	
	1		[2], clause 7.2.3.1.8	
TSS reference	SIP NNI - SIP-I/Basic call	/Receipt_of_REL/	12 4	
Selection criteria				
Test Purpose name	A SIP_final_Response wit established (180), a final i	•	ceived after an early dialogue is	
Test Purpose	Ensure that on receipt of a SIP_final_Response with encapsulated REL message after an early dialogue due to sending a 180 Ringing is established a SIP final response is sent. The Cause value of the received REL is present in the Reason header cause parameter 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	50 [i.3]; cause = Cause_ v	/alue	
Comments				
Message flows	SIP NNI INVITE 180 Ringing SIP_final_Response ACK	MGCF	SIP-I → INVITE (IAM) ← 180 Ringing (ACM) ← SIP_final_Response (REL) → ACK (RLC)	

TP number	TP_107_003A	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Re	SIP NNI - SIP-I/Basic call/Receipt of REL/			
Selection criteria					
Test Purpose name	A SIP_final_Response with e	ncapsulated REL and without	Reason header is received		
	after an early dialogue is esta	blished (180), a final respons	se is sent		
Test Purpose	Ensure that on receipt of a SIP_final_Response with encapsulated REL message and a Reason header was not received after an early dialogue due to sending a 180 Ringing is established, a SIP final response is sent. The Cause value of the received REL is mapped into the Reason header cause parameter of the sent final response. The status code of the sent SIP_final_Response is derived from the interworked Reason header as indicated in table 6.1.1.7-1a				
ISUP Parameter values	REL: Cause indicator Cause	e Value = Cause_value			
SIP Parameter values	4xx/5xx/6xx:				
	Reason: Q.850 [i.3]; caus	Reason: Q.850 [i.3]; cause = Cause_value			
Comments					
Message flows	180 Ringing SIP_final_Response	MGCF	180 Ringing (ACM) SIP-I_final_Response (REL)		

TP number	TP_107_003B	Reference	[1], clause 7.2.2 [2], clause 7.2.3.1.8, table 9 and clause 7.2.3.2.12, table 18
TSS reference	SIP NNI - SIP-I/Basic ca	II/Receipt of REL/	and clause 7.2.3.2.12, table 10
Selection criteria		<u> </u>	
Test Purpose name	A SIP_final_Response westablished (180), a final		s received after an early dialogue is
Test Purpose	Ensure that on receipt of a SIP-I_final_Response without Reason header and without encapsulated REL message after an early dialogue due to sending a 180 Ringing is established, a SIP final response is sent. The Reason header cause value is derived from the received Status code as indicated in table 6.1.1.7-1. The status code of the sent SIP_final_Response is derived from the interworked Reason header as indicated in table 6.1.1.7-1		
ISUP Parameter values			
SIP Parameter values	4xx/5xx/6xx: Reason: Q.	850 [i.3]; cause = Cause _	value
Comments		-	
Message flows	SIP NNI INVITE 180 Ringing SIP_final_Response ACK	MGCF → ←	SIP-I → INVITE (IAM) ← 180 Ringing (ACM) ← SIP-I_final_Respons → ACK

TP number	TP_107_004	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rec	eipt_of_REL/			
Selection criteria					
Test Purpose name	A SIP_final_Response with en established (181), a final response	•	received after an early dialogue is		
Test Purpose	Ensure that on receipt of a SIP_final_Response with encapsulated REL message after an early dialogue due to sending a 181 Call Is Being Forwarded is established a SIP final response is sent. The cause value of the received REL is present in the Reason header cause parameter 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 [i.	.3]; cause = Cause _	value		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	181 Call Is Being Forwarded	←	← 181 Call Is Being Forwarded (ACM)		
	SIP_final_Response ACK	← →	← SIP_final_Response (REL)→ ACK (RLC)		

TP number	TD 107 004A	Da	ference		[1] alauga 7.2.2
i P number	TP_107_004A	Re	rerence		[1], clause 7.2.2
					[2], clause 7.2.3.1.8
TSS reference	SIP NNI - SIP-I/Basic cal	I/Receipt_	of_REL/		
Selection criteria					
Test Purpose name	A SIP_final_Response w	ith encap	sulated REL	and w	vithout Reason header is received after
	an early dialogue is estal	olished (1	81), a final re	spon	se is sent
Test Purpose	Ensure that on receipt of	a SIP fin	al Response	with	encapsulated REL message and a
_	Reason header was not	received a	fter an early	dialo	gue due to sending a 181 Call Is Being
	Forwarded is established	l a SIP fin	al response i	s sen	t. The Cause value of the received
					neter of the sent final response. The
					red from the interworked Reason
	header as indicated in ta				
ISUP Parameter values	REL: Cause indicator C			value	
SIP Parameter values	4xx/5xx/6xx:				
	Reason: Q.850 [i.3]; o	cause = C	ause value		
Comments			<u> </u>		
Message flows	SIP NNI		MGCF		SIP-I
	INVITE	→		→	INVITE (IAM)
	181 Call Is Being	←			181 Call Is Being Forwarded (ACM)
	Forwarded				3 (- ,
	SIP_final_Response	←		←	SIP-I final Response (REL)
	ACK .	→		→	ACK (RLC)

TP number	TP_107_004B	Reference	[1], clause 7.2.2 [2], clause 7.2.3.1.8, table 9		
			and clause 7.2.3.2.12, table 18		
TSS reference	SIP NNI - SIP-I/Basic call/Rec	eipt_of_REL/			
Selection criteria					
Test Purpose name	A SIP_final_Response without established (181), a final response		received after an early dialogue is		
Test Purpose	Ensure that on receipt of a SIP-I_final_Response without Reason header and without encapsulated REL message after an early dialogue due to sending a 181 Call Is Being Forwarded is established a SIP final response is sent. The Reason header cause value is derived from the received Status code as indicated in table 6.1.1.7-1. The status code of the sent SIP_final_Response is derived from the interworked Reason header as indicated in table 6.1.1.7-1				
ISUP Parameter values					
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850 [i	.3]; cause = Cause_v a	alue		
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	181 Call Is Being	·	181 Call Is Being Forwarded (ACM)		
	SIP_final_Response	=	SIP-I_final_Response ACK		

TP number	TP_107_005	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/			
Selection criteria					
Test Purpose name	A SIP_final_Response with enestablished (183), a final response		d after an early dialogue is		
Test Purpose	Ensure that on receipt of a REL message after an early dialogue due to sending a 183 Session Progress is established a SIP final response is sent. The Cause value of the received REL is present in the Reason header cause parameter of the sent final response				
ISUP Parameter values	ACM: BCi Called party status = no indication oBCi in-band info available REL: Cause indicator Cause Value = Cause value				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850au	se = Cause_value			
Comments					
Message flows	SIP NNI INVITE 183 Session Progress SIP final Response	MGCF → → ← ←			
	ACK	→ →	` ` ` /		

TP number	TP_107_005A	Reference	[1], clause 7.2.2
			[2], clause 7.2.3.1.8
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name	A SIP_final_Response with en	capsulated REL and witho	out Reason header is received
	after an early dialogue is estab	lished (183), a final respo	nse is sent
Test Purpose	Ensure that on receipt of a SIP	_final_Response with end	capsulated REL message and a
	Reason header was not receiv		
	Progress is established a SIP	final response is sent. The	Cause value of the received REL
	is mapped into the Reason hea	ader cause parameter of t	he sent final response
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value	
SIP Parameter values	4xx/5xx/6xx:		
	Reason: Q.850 [i.3]; cause	= Cause_value	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	INVITE (IAM)
	183 Session Progress ←	←	183 Session Progress (ACM)
	SIP_final_Response	←	SIP_final_Response (REL)
	ACK →	→	ACK (RLC)

TP number	TP 107 005B	Reference		[1] clause 7.2.2
ir number	F 101 003B	Reference		[1], clause 7.2.2
				[2], clause 7.2.3.1.8, table 9
				and clause 7.2.3.2.12, table 18
TSS reference	SIP NNI - SIP-I/Basic call/	Receipt_of_REL/		
Selection criteria				
Test Purpose name	A SIP_final_Response wit established (183), a final r		s receiv	red after an early dialogue is
Test Purpose	Ensure that on receipt of a SIP-I_final_Response without Reason header and without encapsulated REL message after an early dialogue due to sending a 183 Session Progress is established a SIP final response is sent. The Reason header cause value is derived from the received Status code as indicated in table 6.1.1.7-1. The status code of the sent SIP_final_Response is derived from the interworked Reason header as indicated in table 6.1.1.7-1			
ISUP Parameter values				
SIP Parameter values	4xx/5xx/6xx: Reason: Q.8	50 [i.3]; cause = Cause_	value	
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	→	→	INVITE (IAM)
	183 Session Progress	←	←	183 Session Progress (ACM)
	SIP_final_Response	←	←	SIP-I_final_Respons
	ACK .	→	→	ACK .

TP number	TP_107_006	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rece	ipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Progress indicator IE p	resent in a SIP_final_Respons	e with encapsulated REL is		
	mapped into the PSTN XML Pr	ogressIndicator in the sent fina	al response		
Test Purpose	Ensure that on receipt of a SIP				
	Progress Indicator IE is present				
	table 6.1.1.7-5 is sent, a PSTN				
	Description is derived from the	received REL Progress indicat	or as indicated in		
	table 6.1.1.7-2				
ISUP Parameter values	REL: ATP Progress Indicator	= PI_value			
SIP Parameter values	4xx/5xx/6xx:				
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>00<				
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescription	>PI_value<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	(INVITE) IAM		
	180 Ringing ← 180 Ringing (ACM)				
	SIP final Response	←	SIP_final_Response (REL)		
	ACK - ·	→	ACK (RLC)		

TP number	TP 107 007	Reference	[1], clause 7.2.2			
ir number	11-101_001	Reference	[2], clause 7.2.2			
TSS reference	SIP NNI - SIP-I/Basic ca	all/Receipt of REL/	[[2], clause 7.2.5.1.6			
Selection criteria	PICS 6.2.1/5	all/Tecelpt_ol_TCL/				
		anatibility IT anabout in a f	DEL is manned into the DCTN VMI			
Test Purpose name		in the sent final response	REL is mapped into the PSTN XML			
Test Purpose	Ensure that on receipt o	f a SIP_final_Response w	vith encapsulated REL message and High			
	Layer Compatibility IE is	s present in an ATP, a SIF	P final response as indicated in			
			ompatibility is contained and the			
	HighLayerCharacteristic	s is derived from the rece	ived REL High Layer Compatibility as			
	indicated in table 6.1.1.7	7-3				
ISUP Parameter values	REL: ATP High Layer	Compatibility = HLC_valu	ie .			
SIP Parameter values	4xx/5xx/6xx:					
	xml version="1.0" end</th <th>coding="utf-8"?></th> <th></th>	coding="utf-8"?>				
	PSTN					
	HighLayerCompatib	HighLayerCompatibility				
	HLOctet3					
	CodingStandard>00<					
		Interpretation>100<				
	Presentation					
	HLOctet4					
		aracteristics>HLC_value	<			
Comments		g				
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	→	→ INVITE (IAM)			
	180 Ringing ←					
	100 runging (riow)					
	SIP final Response	←	← SIP final Response (REL)			
	ACK	→	→ (ACK) RLC			

TP number	TP_107_008	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Rece	eipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Low Layer Compatibili	ty IE present in a REL is mapp	ed into the PSTN XML		
	LowLayerCompatibility in the s	ent final response			
Test Purpose	Ensure that on receipt of a SIP				
	Layer Compatibility IE is present				
	table 6.1.1.7-5 is sent, a PSTN				
	InformationTransferCapability i	s derived from the received RI	EL Low Layer Compatibility as		
	indicated in table 6.1.1.7-4				
ISUP Parameter values	REL: ATP Low Layer Compa	ibility = ITC_value			
SIP Parameter values	4xx/5xx/6xx:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
	LLOctet4>				
	TransferMode>00<				
	InformationTransfer	Rate>10000<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	180 Ringing ← 180 Ringing (ACM -free)				
	SIP_final_Response				
	/ ION		(/ (011) 1120		

Table 6.1.1.7-1: Interworking of SIP received Status code into Reason header cause value and sent Status code

VA	← SIP_final_Response	← SIP_final_Response - Reason header	← SIP-I_final_Response
	Status code	Cause parameter	Status code
VA_01	400 Bad Request	value No 111 (Protocol error, unspecified)	400 Bad Request
VA_02	500 Server Internal error	value No 127 (Interworking, unspecified)	401 Unauthorized
VA_03	500 Server Internal error	value No 127 (Interworking, unspecified)	402 Payment Required
VA_04	501 Not Implemented	value No 79 (Service or option not implemented,	403 Forbidden
		unspecified)	
VA_05	404 Not Found	value No 1 (Unallocated (unassigned) number)	404 Not Found
VA_06	500 Server Internal error	value No 127 (Interworking, unspecified)	405 Method Not Allowed
VA_07	500 Server Internal error	value No 127 (Interworking, unspecified)	406 Not Acceptable
VA_08	500 Server Internal error	value No 127 (Interworking, unspecified)	407 Proxy authentication
			required
VA_09	504 Server timeout	value No 102 (Recovery on timer expiry)	408 Request Timeout
VA_10	410 Gone	value No 22 (Number changed)	410 Gone
VA_11	500 Server Internal error	value No 127 (Interworking, unspecified)	413 Request Entity too
			long
VA_12	400 Bad Request	value No 111 (Protocol error, unspecified)	414 Request-URI too long
VA_13	500 Server Internal error	value No 127 (Interworking, unspecified)	415 Unsupported Media
			type
VA_14	400 Bad Request	value No 111 (Protocol error, unspecified)	416 Unsupported URI
			scheme
VA_15	501 Not Implemented	value No 79 (Service or option not implemented,	417 Unknown Resource-
		unspecified)	Priority
VA_16	400 Bad Request	value No 111 (Protocol error, unspecified)	420 Bad Extension
VA_17	400 Bad Request	value No 111 (Protocol error, unspecified)	421 Extension required
VA_18	480 Temporarily unavailable	value No 31 (Normal, unspecified)	422 Session Interval Too
			Small
VA_19	500 Server Internal error	value No 127 (Interworking, unspecified)	423 Interval Too Brief

VA	← SIP_final_Response	← SIP_final_Response - Reason header	← SIP-I_final_Response		
VA_20	433 Anonymity Disallowed	value No 24 (Call rejected due to feature at the	433 Anonymity Disallowed		
	(see note 1)	destination)	(see note 1)		
VA_21	500 Server Internal error	value No 127 (Interworking, unspecified)	440 Max-Breadth		
			Exceeded		
VA_22	480 Temporarily unavailable	value No 20 (Subscriber absent)	480 Temporarily		
			Unavailable		
VA_23	500 Server Internal error	value No 127 (Interworking, unspecified)	481 Call/Transaction does		
			not exist		
VA_24	500 Server Internal error	value No 127 (Interworking, unspecified)	482 Loop detected		
VA_25	483 Too Many Hops	value No 25 (Exchange routing error)	483 Too many hops		
VA_26	484 Address Incomplete	value No 28 (Invalid number format (address	484 Address Incomplete		
		incomplete))			
VA_27	404 Not Found	value No 1 (Unallocated (unassigned) number)	485 Ambiguous		
	486 Busy Here	value No 17 (User busy)	486 Busy Here		
VA_29	500 Server Internal error	value No 127 (Interworking, unspecified) or not	487 Request terminated		
		interworked. (see note 2)			
VA_30	488 Not acceptable here	value No 50 (Requested facility not subscribed)	488 Not acceptable here		
VA_31	500 Server Internal error	value No 127 (Interworking, unspecified)	493 Undeciphera		
VA_32	500 Server Internal error	value No 127 (Interworking, unspecified)	500 Server Internal error		
VA_33	501 Not Implemented	value No 79 (Service or option not implemented,	501 Not implemented		
		unspecified)			
VA_34	502 Bad Gateway	value No 27 (Destination out of order)	502 Bad Gateway		
VA_35	503 Service Unavailable	value No 41 (Temporary failure)	503 Service Unavailable		
VA_36	504 Server timeout	value No 102 (Recovery on timer expiry)	504 Server timeout		
VA_37	500 Server Internal error	value No 127 (Interworking, unspecified)	505 Version not supported		
VA_38	513 Message too large	value No 95 (Invalid message, unspecified)	513 Message too large		
VA_39	500 Server Internal error	value No 127 (Interworking, unspecified)	580 Precondition failure		
VA_40	486 Busy Here	value No 17 (User busy)	600 Busy Everywhere		
VA_41	403 Forbidden	value No 21 (Call rejected)	603 Decline		
VA_42	604 Does not exist anywhere	value No 2 (No route to specified transit network)	604 Does not exist		
		·	anywhere		
VA_43	606 Not Acceptable	value No 88 (Incompatible destination)	606 Not Acceptable		
	NOTE 1: Anonymity Disallowed, IETF RFC 5079 [i.2] refers.				
	NOTE 2: No interworking if the O-MGCF previously issued a CANCEL request for the INVITE.				
NOTE 3	NOTE 3: The 4xx/5xx/6xx SIP responses that are not covered in this table are not interworked.				

Table 6.1.1.7-1a: Mapping of Reason header cause value into sent Response code

VA	← SIP_final_Response	← SIP-I_final_Response REL Cause	← SIP-I_final_Response
		indicators parameter	
	Status code	Cause parameter	Status code
VA_01	404 Not Found	Cause value No 1 (Unallocated (unassigned) number)	400 Bad Request
VA_02	604 Does not exist anywhere	Cause value No 2 (No route to specified transit network)	401 Unauthorized
VA_03	604 Does not exist anywhere	Cause value No 3 (No route to destination)	402 Payment Required
VA_04	500 Server Internal error	Cause value No 4 (Send special information tone)	403 Forbidden
VA_05	404 Not Found	Cause value No 5 (Misdialled trunk prefix)	404 Not Found
VA_06	486 Busy Here	Cause value No 17 (User busy)	405 Method Not Allowed
VA_07	408 Request Timeout IF "ICS call" (see note 4) ELSE 480 Temporarily unavailable	Cause value No 18 (No user responding)	406 Not Acceptable
VA_08	480 Temporarily unavailable	Cause value No 19 (No answer from user (user alerted))	407 Proxy authentication required
VA_09	408 Request Timeout IF "ICS call" (see note 4) ELSE 480 Temporarily unavailable	Cause value No 20 (Subscriber absent)	408 Request Timeout

VA	← SIP_final_Response	← SIP-I_final_Response REL Cause	← SIP-I_final_Response
	-	indicators parameter	
VA_10	603 Decline IF location field is set to user ELSE 403 Forbidden	Cause value No 21 (Call rejected)	410 Gone
VA_11	410 Gone	Cause value No 22 (Number changed)	413 Request Entity too long
_	410 Gone	Cause value No 23 (Redirection to new destination)	414 Request-URI too long
VA_13	433 Anonymity Disallowed (see note 1)	Cause value No 24 (Call rejected due to feature at the destination)	415 Unsupported Media type
VA_14	483 Too Many Hops	Cause value No 25 (Exchange routing error)	416 Unsupported URI scheme
VA_15	480 Temporarily unavailable	Cause value No 26 (Non-selected user clearing)	417 Unknown Resource- Priority
VA_16 VA 17	502 Bad Gateway 484 Address Incomplete	Cause value No 27 (Destination out of order) Cause value No 28 (Invalid number format	420 Bad Extension
VA_17	404 Address incomplete	(address incomplete))	421 Extension required
VA_18	501 Not Implemented	Cause value No 29 (Facility rejected)	422 Session Interval Too Small
VA_19	480 Temporarily unavailable	Cause value No 31 (Normal, unspecified) (class default) (see note 2)	423 Interval Too Brief
VA_20	486 Busy here if Diagnostics indicator includes the (CCBS indicator = CCBS possible) else 503 Service Unavailable (see note 3)	Cause value No 34 (No circuit/channel available)	433 Anonymity Disallowed (see note 1)
VA_21	500 Server Internal error	Cause value No 38 (Network out of order)	440 Max-Breadth Exceeded
VA_22	503 Service Unavailable (see note 3)	Cause value No 41 (Temporary failure)	480 Temporarily Unavailable
VA_23	503 Service Unavailable (see note 3)	Cause value No 42 (Switching equipment congestion)	481 Call/Transaction does not exist
VA_24	500 Server Internal error	Cause value No 43 (Access information discarded)	482 Loop detected
VA_25	503 Service Unavailable (see note 3)	Cause value No 44 (Requested channel not available)	483 Too many hops
VA_26	500 Server Internal error	Cause value No 46 (Precedence call blocked)	484 Address Incomplete
VA_27	503 Service Unavailable (see note 3)	Cause value No 47 (Resource unavailable, unspecified) (class default)	485 Ambiguous
VA_28	488 Not acceptable here	Cause value No 50 (Requested facility not subscribed)	486 Busy Here
VA_29	603 Decline	Cause value No 55 (Incoming class barred within Closed User Group (CUG))	487 Request terminated
VA_30	603 Decline	Cause value No 57 (Bearer capability not authorized)	488 Not acceptable here
VA_31	503 Service Unavailable (see note 3)	Cause value No 58 (Bearer capability not presently available)	493 Undeciphera
VA_32	501 Not Implemented	Cause value No 63 (Service option not available, unspecified) (class default)	500 Server Internal error
VA_33	500 Server Internal error	Cause value No 65 (Bearer capability not implemented)	501 Not implemented
VA_34	501 Not Implemented	Cause value No 69 (Requested facility not implemented)	502 Bad Gateway
VA_35	501 Not Implemented	Cause value No 70 (Only restricted digital information capability is available)	503 Service Unavailable
VA_36	501 Not Implemented	Cause value No 79 (Service or option not implemented, unspecified) (class default)	504 Server timeout
VA_37	403 Forbidden	Cause value No 87 (User not member of Closed User Group (CUG))	505 Version not supported
VA_38	606 Not Acceptable	Cause value No 88 (Incompatible destination)	513 Message too large
VA_39	403 Forbidden	Cause value No 90 (Non existing Closed User Group (CUG))	580 Precondition failure

VA	← SIP_final_Response	← SIP-I_final_Response REL Cause indicators parameter	← SIP-I_final_Response		
VA_40	500 Server Internal error	Cause value No 91 (Invalid transit network selection)	600 Busy Everywhere		
VA_41	513 Message too large	Cause value No 95 (Invalid message, unspecified) (class default)	603 Decline		
VA_42	501 Not Implemented	Cause value No 97 (Message type non-existent or not implemented)	604 Does not exist anywhere		
VA_43	606 Not Acceptable				
NOTE 1: Anonymity Disallowed, IETF RFC 5079 [i.2] refers.					
NOTE 2: Class 0 and class 1 have the same default value.					
NOTE 3: No Retry-After header field is included.					
NOTE 4: The I-MGCF identifies a call as an "ICS call" as specified in clause 7.2.3.1.2.12 of ETSI TS 129 163 [2].					

Table 6.1.1.7-2: Mapping of Progress Indicator information element to PSTN XML ProgressIndicator

PI_value	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
	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'

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

VA value	← SIP_final_Response	
	Status code	
VA_01	404 Not Found	
VA_02	408 Request Timeout	
VA_03	410 Gone	

VA value	← SIP_final_Response
	Status code
VA_04	480 Temporarily unavailable
VA_05	482 Loop detected
VA_06	486 Busy Here
VA_07	500 Server Internal error
VA_08	504 Server timeout
VA_09	603 Decline
VA_10	606 Not Acceptable

- 6.1.1.8 Void
- 6.1.1.9 Void
- 6.1.1.10 Void

6.1.2 Signalling Interworking of a Call from SIP-I based circuit-switched core network towards the IP Multimedia Subsystem

6.1.2.1 Sending of INVITE

TP number	TP_201_001	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1
TSS reference	SIP-I-SIP/Basic call/	Sending_of_INVITE/	
Selection criteria			
Test Purpose name	IAM received, a INVI	TE is sent	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM message, an INVITE request is sent		
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP I	MGCF	SIP-NNI
	INVITE (IAM)	→	→ INVITE
			← 100 Trying
		Apply post test ro	outine

TP number	TP_201_004	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1.3
TSS reference	SIP-I-SIP/Basic call/Sending_	of_INVITE/	
Selection criteria	PICS 6.2.1/11		
Test Purpose name	Information request procedure	successful, Calling pa	arty number in INF received
Test Purpose		nt. On receipt of an Info	y number is present, an Information ormation (INF) message containing a st
ISUP Parameter values	IAM: No calling party number INR: Calling party address r INF: Calling party address r Calling party number	equest indicator=callin	g party address requested address included
SIP Parameter values			
Comments			
Message flows	SIP-I INVITE (IAM) 183 Session Progress (INR)	MGCF → ←	SIP-NNI
	INFO (INF)	→	→ INVITE
	200 OK (INFO)	←	← 100 Trying
		Apply post test ro	, 0

TP number	TP_201_005	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.1.3	
TSS reference	SIP-I-SIP/Basic call/Sending_	of_INVITE/		
Selection criteria	PICS 6.2.1/11 AND PICS 6.2	.1/12		
Test Purpose name	Information request procedure not successful, no Calling party number in INF received, the call is rejected			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message and no Calling party number is present, the call is rejected			
ISUP Parameter values	IAM: No calling party number present INR: Calling party address request indicator=calling party address requested INF: Calling party address response=calling party address not included			
SIP Parameter values		<u> </u>		
Comments				
Message flows	SIP-I INVITE (IAM) 183 Session Progress (INR) INFO (INF) 4xx/5xx/6xx (REL) ACK	MGCF	SIP-NNI	

TP number	TP_201_006	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.1.3		
TSS reference	SIP-I-SIP/Basic call/Sending	of INVITE/	1, 1,		
Selection criteria	PICS 6.2.1/11 AND NOT PICS	6.2.1/12			
Test Purpose name	Information request procedure call is continued	Information request procedure not successful, no Calling party number in INF received, the call is continued			
Test Purpose	Request (INR) message is ser	Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message and no Calling party number is present, the call is continued			
ISUP Parameter values	INR: Calling party address re	INR: Calling party address request indicator=calling party address requested			
SIP Parameter values					
Comments					
Message flows	SIP-I INVITE (IAM) 183 Session Progress (INR) INFO (INF)	MGCF → ← →	SIP-NNI → INVITE ← 100 Trying		
		Apply post test routi	ine		

TP number	TP_201_007	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.1.3	
TSS reference	SIP-I-SIP/Basic call/Sending_o	f_INVITE/		
Selection criteria	PICS 6.2.1/11			
Test Purpose name	Information request procedure	not successful, T 33 is expired		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and no Calling party number is present, an Information Request (INR) message is sent. If timer T33 is expired, the call is rejected			
ISUP Parameter values	IAM: No calling party number present INR: Calling party address request indicator=calling party address requested			
SIP Parameter values				
Comments				
Message flows	SIP-I INVITE (IAM)	MGCF	SIP-NNI	
	183 Session Progress (INR)	← Start T ₃₃		
	4xx/5xx/6xx (REL)	← T ₃₃ Expiry		
	ACK	→		
	Apply post test routine			

TP number	TP_201_009	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.1.4 b)	
TSS reference	SIP-I-SIP/Basic call/Sending_c	f_INVITE/		
Selection criteria				
Test Purpose name	End of address signalling determined by receipt of the maximum number of digits used in the national numbering plan			
Test Purpose	Ensure that on receipt of an IN contains maximum number of INVITE is sent			
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP-NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
	Apply post test routine			

TP number	TP 201 010	Referen	ce	[1], clause 7.3.1
				[2], clause 7.2.3.2.1.4 c)
TSS reference	SIP-I-SIP/Basic call/S	ending_of_INVITE	1	
Selection criteria				
Test Purpose name	End of address signal call to the called party	•	receipt of sufficier	nt number of digits to route the
Test Purpose				and the called party number the called party, the initial
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP-I	N	IGCF	SIP-NNI
_	INVITE (IAM)	→	→	INVITE
	•		+	100 Trying
	Apply post test routine			

TP number	TP_201_015	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1.4
TSS reference	SIP-I-SIP/Basic call/	Sending_of_INVITE/	
Selection criteria	PICS 6.2.3/3		
Test Purpose name	A PSTN XML Sending determined	ngCompleteIndication is sent if	the end of the address signalling is
Test Purpose	Ensure that the end SendingCompleteInd	of the address signalling is det dication is sent	ermined a PSTN XML
ISUP Parameter values			
SIP Parameter values	INVITE xml version="1.0" PSTN sendingComplete</th <th>•</th> <th></th>	•	
Comments			
Message flows	SIP-I INVITE (IAM)	MGCF	SIP-NNI → INVITE
		Apply post test i	routine

TP number	TP_201_023	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.1.5		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_INVITE/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	1 AND PICS 6.2.4/8			
Test Purpose name	Mapping of USI and USI prime	into PSTN XML BearerCapa	bility element		
Test Purpose	Ensure that on receipt of an IN		that includes a USI and USI		
	Prime parameter then the SUT				
	Map the USI Prime into the second Bearer Capability stated in the XML				
	BearerCapability element	and			
	 The first offered codec is to 	he CLEARMODE codec			
		Bearer Capability stated in the	XML BearerCapability		
	element and				
	 The second offered coded 	is an Audio codec			
ISUP Parameter values	IAM: USI=speech or 3,1 kHz				
	USI prime=unrestricted				
	TMR Prime: 64 kBit/s p				
	ATP(HLC Video Teleph	ony)			
SIP Parameter values	INVITE:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN Page County High				
	BearerCapability BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>mapped from USI<				
	BearerCapability				
	BCoctet3				
	CodingStandard>00)<			
		Capability>mapped from USI	prime<		
		- 1	'		
	SDP:				
	m=audio <proper number<="" port="" th=""><th>> RTP/AVP CLEARMODE 8 .</th><th></th></proper>	> RTP/AVP CLEARMODE 8 .			
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

TP number	TP_201_024	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/			
Selection criteria					
Test Purpose name	Called party number is mapped	d into Request URI in the sent	INVITE request		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM the called party number is mapped into the Request URI of the sent INVITE request: • If the nature of address indicator is set to 'National (significant) number' then the				
	country code of the networ	rk in which the SUT is located a eceived in the Called party nun	and a leading '+' is inserted		
	digits received in the Calle	d party number	is inserted before the number		
ISUP Parameter values	IAM: Called party number= National (significant) number or International number				
SIP Parameter values	INVITE: Request URI				
	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone</called>				
	or				
	tel: '+CC' <called digits="" number="" party=""> if the called party number is a national number</called>				
	sip: '+' <called <b="" a="" is="" number="" party="">national number sip: '+' <called digits="" number="" party="">@hostportion; user=phone</called></called>				
	or	arty number digita- whostportion	on, ascr-phone		
		ırty number digits>			
	if the called party number is an international number				
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

TD	TD 004 005	D-f	[4] -1 7.0.4		
TP number	TP_201_025	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/			
Selection criteria					
Test Purpose name	Called party number is mapped	d into To header in the sent IN	VITE request		
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM t	ne called party number is		
	mapped into the To header of t	he sent INVITE request:	•		
	 If the nature of address inc 	licator is set to 'National (signi	ficant) number' then the		
		k in which the SUT is located			
		eceived in the Called party nur			
			is inserted before the number		
	digits received in the Calle				
ISUP Parameter values		ational (significant) number or	International number		
SIP Parameter values	INVITE:				
	То				
	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone</called>				
	or				
	tel: '+CC' <called digits="" number="" party=""></called>				
	if the called party number is a national number				
	sip: '+' <called digits="" number="" party="">@hostportion; user=phone</called>				
	or	arty marriaer digital Circosport	on, addr phone		
		rty number digits>			
	tel: '+' <called digits="" number="" party=""> if the called party number is an international number</called>				
Comments	ii the called party flamb	er is an international number			
Message flows	SIP-I	MGCF	SIP-NNI		
Wessage nows	INVITE (IAM) →	₩GCI	INVITE		
		→ ←	=		
		=	100 Trying		
		Apply post test routine			

TP number	TP_201_026	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.2
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/	
Selection criteria	PICS 6.2.4/3		
Test Purpose name	Mapping of TMR speech into S	DP	
Test Purpose	Ensure that on receipt of an IN'	VITE with encapsulated IAM th	e TMR speech is mapped
	into the SDP m-line a attributes	i	
ISUP Parameter values	IAM: TMR=speech		
SIP Parameter values	a=rtpmap: <dynamic-pt> P OR</dynamic-pt>	P 8 [additional codes] P <dynamic-pt> [additional codec P</dynamic-pt>	
Comments			
Message flows	SIP-I INVITE (IAM) →	MGCF Apply post tost routing	SIP-NNI INVITE 100 Trying
		Apply post test routine	

TP number	TP 201 026A	Reference	[1], clause 7.3.1
Ti Hamber	11 _201_020/		[2], clause 7.2.3.2.2.2
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/	16 3:
Selection criteria	PICS 6.2.4/4		
Test Purpose name	Mapping of TMR 3,1 kHz audio	into SDP	
Test Purpose	Ensure that on receipt of an IN mapped into the SDP m-line a		the TMR 3,1 kHz audio is
ISUP Parameter values	IAM: TMR=TMR value		
SIP Parameter values	a=rtpmap: <dynamic-pt> F OR</dynamic-pt>	P 8 [additional codes] P <dynamic-pt> [additional coordinated coor</dynamic-pt>	•
Comments	OID I	моог	OID NINI
Message flows	SIP-I INVITE (IAM) →	MGCF → ←	SIP-NNI INVITE 100 Trying
	Apply post test routine		

TP number	TP_201_026B	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.2	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/		
Selection criteria	PICS 6.2.4/2			
Test Purpose name	Mapping of TMR 64 kBit/s unre	stricted into SDP		
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM th	e TMR 64 kBit/s	
	unrestricted is mapped into th	e SDP m-line a attributes		
ISUP Parameter values	IAM: TMR=64 kBit/s unrestric	eted		
SIP Parameter values	INVITE:			
	SDP			
	m=audio <port #=""> RTP/AVP <dynamic-pt></dynamic-pt></port>			
	a=rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>			
Comments				
Message flows	SIP-I	MGCF	SIP-NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
		Apply post test routine		

Table 6.1.2.1-1: Void

TP number	TP_201_027	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.2	
TSS reference	SIP-I - SIP NNI/Basic call/S	Sending_of_INVITE/		
Selection criteria				
Test Purpose name	AMR codec included			
Test Purpose		n INVITE with encapsulated IAM		
		MR set to speech or 3,1 kHz audi	o, the SDP in the sent INVITE	
	contains an AMR codec			
ISUP Parameter values	IAM: TMR=speech or 3,1	kHz audio		
SIP Parameter values	INVITE:			
	SDP:			
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>			
	a = <rtpmap dynamic="" pt=""> AMR</rtpmap>			
Comments				
Message flows	SIP-I	MGCF	SIP-NNI	
	INVITE (IAM)	→	INVITE	
		←	100 Trying	
	Apply post test routine			

TP number	TP_201_028	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.2		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/			
Selection criteria	PICS 6.2.4/3				
Test Purpose name	Mapping of USI parameter Info	rmation Transfer Capability sp	eech		
Test Purpose	Ensure that on receipt of an IN				
	Capability speech and User In				
	A-law is mapped into the SDP	m-line audio codec PCMA or F	PCMU		
ISUP Parameter values	IAM: User service information	า			
	USI Information Tran	nsfer Capability			
	speech				
	Information Layer 1	Protocol Indicator			
	G.711 μ-law				
	or				
	G.711 A-law				
SIP Parameter values	INVITE:				
	SDP				
	m= <port> RTP/AVP 8</port>				
	a= rtpmap: 8 PCMA/800	00			
	or				
	m=audio <port> RTP/A</port>				
_	a= rtpmap:0 PCMU/800	0			
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

TP number	TP 201 028A	Reference	[1], clause 7.3.1		
TT Hamber	11 _201_020/(Kererenee	[2], clause 7.2.3.2.2.2		
TSS reference	SIP-I - SIP NNI/Basic call/Sending of INVITE/				
	PICS 6.2.4/7	ding_or_invite/			
Selection criteria			4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Test Purpose name	Mapping of USI parameter Info	ormation Transfer Capability 3,	1 kHz audio and HLC		
	Facsimile Group 2/3				
Test Purpose	Ensure that on receipt of an IN				
	Capability 3,1 kHz audio and l				
	"G.711 A-law and ATP HLC "F	acsimile Group 2/3" is mappe	ed into the SDP m-line image		
	udptl or tcptl				
ISUP Parameter values	IAM: User service information	n			
	USI Information Transfer Capability				
	3,1 kHz audio				
	ATP				
	High Layer Compatibility				
	High Layer Characteristics				
	Facsimile Group 2/3				
SIP Parameter values	INVITE:				
	SDP				
	m=image udptl t38				
	or				
	m=image tcptl t38				
Comments	III-iiiiage tepti too				
	CID I	МОСТ	CID NINI		
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

TP number	TP_201_028B	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.2
TSS reference	SIP-I - SIP NNI/Basic call/Sending of INVITE/		
Selection criteria	PICS 6.2.4/2		
Test Purpose name	Mapping of USI parameter Info	ormation Transfer Capability U	DI
Test Purpose	Ensure that on receipt of an IN		
	Capability Unrestricted digita	I information is mapped into t	the SDP m-line audio codec
	CLEARMODE		
ISUP Parameter values	IAM: User service information	n	
	USI Information Tra	nsfer Capability	
	Unrestricted digi	tal information	
SIP Parameter values	INVITE:		
	SDP		
	m= <media> RTP/AVP <dynamic payload="" type=""></dynamic></media>		
	a= rtpmap: <dynamic payload="" type=""> CLEARMODE/8000</dynamic>		
Comments			
Message flows	SIP-I	MGCF	SIP-NNI
	INVITE (IAM) →	→	INVITE
	. ,	←	100 Trying
	Apply post test routine		

Table 6.1.2.1-2: Void

TP number	TP_201_029	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.3A	
TSS reference	SIP-I - SIP NNI/Basic	call/Sending_of_INVITE/		
Selection criteria				
Test Purpose name	Mapping of Calling pa	rty's category into cpc parame	ter	
Test Purpose	CPC_value is mapped	Ensure that on receipt of an INVITE with encapsulated IAM the calling party's category CPC_value is mapped into the 'cpc' parameter in the P-Asserted-Identity and the Accept-Language header in the sent INVITE as described in table 6.1.2.1-3		
ISUP Parameter values	IAM: Calling party's	category		
SIP Parameter values	INVITE: P-Asserted	-Identity		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
			← 100 Trying	
		Apply post test re	outine	

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 Param	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	
VA_12	emergency service call per ANSI Standard	emergency	

TP number	TP_201_030	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.4
TSS reference	SIP-I - SIP NNI/Basic call/Sending of INVITE/		
Selection criteria	PICS 6.2.1/8		
Test Purpose name	HOP counter procedure support	rted	
Test Purpose	Ensure that on receipt of the H	OP counter parameter, the val	ue is mapped into the
	Max-Forwards header. The val	ue of the Max-Forwards heade	er is created from the HOP
	counter value by applying a giv	en 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	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
		←	100 Trying
		Apply post test routine	

TP number	TP 201 031	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.5
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_INVITE/	
Selection criteria			
Test Purpose name	The O-MGCF inserts an IMS (Communication Service Identifie	er
Test Purpose		e SUT shall insert an IMS Com Telephony Communication Ser	
ISUP Parameter values			
SIP Parameter values	INVITE: Contact: icsi-ref		
	Accept-Contact:		
	P-Asserted-Service	ce: urn:urn-7:3gpp-service.ims.	icsi.mmtel
Comments			
Message flows	SIP-I	MGCF	SIP NNI
_	INVITE (IAM) →	→	INVITE
		←	100 Trying
		Apply post test routine	

TP number	TP_201_032	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.6	
TSS reference	SIP-I - SIP NNI/Basic	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Support of P-Early-Me	edia header		
Test Purpose	Ensure that on receip	t of an INVITE with encapsul	ated IAM a P-Early-Media header is	
	present in the sent IN	VITE request	·	
ISUP Parameter values				
SIP Parameter values	INVITE : P-Early-Me	edia: supported		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
			100 Trying	
		Apply post test	routine	

TP number	TP_201_033	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of High Layer Compat			
Test Purpose	Ensure stat on receipt of an IN			
	present containing a High Laye			
	element is present derived acco	ording the HLC_VA as indicate	ed in table 6.1.2.1-4	
ISUP Parameter values	IAM:			
	ATP High Layer Compatibility			
	High Layer Characterist	ics= HLC_VA		
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			
-	HighLayerCharacter	istics>HLC_VA<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
		Apply post test routine		

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

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

TP number	TP_201_034	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending of INVITE/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Low Layer Compat	ibility IE into PSTN XML LowLa	ayerCompatibility	
Test Purpose	Ensure stat on receipt of an IN'			
	present containing a Low Layer			
	element is present derived acc	ording the ITC_VA as indicated	l in table 6.1.2.1-5	
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	ability=ITC_VA		
SIP Parameter values	INVITE:			
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>		
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00	CodingStandard>00<		
	InformationTransferCapability>ITC_VA<			
	LLOctet4>			
	TransferMode>00<			
	InformationTransferI	Rate>10000<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		-	100 Trying	
		Apply post test routine		

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

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

TP number	TP_201_035	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Ser	nding_of_INVITE/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Bearer Capability	IE into PSTN XML Be	arerCapability	
Test Purpose	Ensure stat on receipt of an II	NVITE with encapsula	ted IAM and an USI parameter is	
_	present ,a PSTN XML Bearer	Capability element is	oresent derived according the	
	ITC_value as indicated in tabl	e 6.1.2.1-6	-	
ISUP Parameter values	IAM:			
	USI			
	Information Transfer C	apability=ITC_value		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding</th <th> ="utf-8"?></th> <th></th>	="utf-8"?>		
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability>ITC_value<			
	BCoctet4			
	TransferMode>00<			
	InformationTransfe	rRate>10000<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →		→ INVITE	
		← 100 Trying		
		Apply post test r		

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	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_INVITE/	TE 4:	
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/2	22		
Test Purpose name	Mapping of ISUP UTI parameter	er into PSTN XML BearerCapa	bility	
Test Purpose	Ensure that on receipt of an IN			
	Information parameter is prese			
	derived according the HLC_val	ue as indicated in table 6.1.2.1	-7	
ISUP Parameter values	IAM: UTI			
	High Layer Characte	eristics> HLC_value		
SIP Parameter values	INVITE:			
	PSTN XML MIME body			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00<			
	Interpretation>100<			
	PresentationMethod>01<			
	HLOctet4			
	HighLayerCharacter	istics>HLC_value<		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
	Apply post test routine			

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

HLC_value	DSS1 High layer characteristics identification	XML HighLayerCharacteristic
VA_01	Telephony	'000001'
VA_02	Facsimile Group 2/3	'0000100'
VA_03	Facsimile Group 4 Class I	'0100001'
VA_04	Facsimile service Group 4, Classes II and III	'0100100'
VA_05	Syntax based Videotex	'0110010'
VA_06	International Videotex interworking via gateways or interworking units	'0110011'
VA 07	Telex service	'0110101'
VA_08	FTAM application	'1000010'
VA_09	Videotelephony	'1100000'

TP number	TP_201_037	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.8	
TSS reference	SIP-I - SIP NNI/Basic call/Sending of INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Forward call indicate	tor into PSTN XML ProgressInd	dicator	
Test Purpose	Ensure that on receipt of an IN			
	and the ISDN access indicator			
	ProgressIndicator element acco	ording the roles PI_value in tab	le 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			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00<			
	Location>yyyy<			
	ProgressOctet4			
	ProgressDescription> PI_value <			
Comments	The Progress indicator value 6	is not specified in Q.931		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
	. ,	←	100 Trying	
		Apply post test routine	, ,	

Table 6.1.2.1-8: Mapping of Forward call indicator into PSTN XML ProgressIndicator

Pl_value	Forward call 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	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2.7	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Progress Indicator	IE into PSTN XML ProgressInd	dicator	
Test Purpose		Ensure stat on receipt of an INVITE with encapsulated IAM and an ATP parameter is		
	present containing a Progress Indicator IE a PSTN XML ProgressIndicator element is present derived according the PI_VA as indicated in table 6.1.2.1-9			
ISUP Parameter values	IAM:			
	ATP Progress Indicator			
	Progress Description=P	I_VA		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00<			
	Location>0000<			
	ProgressOctet4			
	ProgressDescription>PI_VA<			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) → INVITE			
	← 100 Trying			
	Apply post test routine			

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

PI_VA	ATP Progress Indicator value	XML ProgressIndicator ProgressDescription
PI_VA_1	Call is not end-to-end ISDN; further call progress information may be available in-band	'0000001'
PI_VA_2	Destination address is non-ISDN	'0000010'
PI_VA_3	Origination address is non-ISDN	'0000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI VA 6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_201_039	Reference	[1], clause 7.3.1	
	OID I OID MAINE : II/O		[2], clause 7.2.3.2.2A1.1	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/1			
Test Purpose name	Number Portability Separate D			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Called Directory Number is present Nature of address indicator: "Network routing number in national (significant) number format" or "National (significant) number" or "Network routing number in network specific number format", an INVITE us sent The userpart of the request URI is derived from the Called Directory Number. '+CC' is inserted before 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 The userpart of the To header field is derived from the Called Directory Number. '+CC' is inserted before 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 "Network routing number in network specific number format"			
SIP Parameter values Comments	INVITE: Request line <+CC number;npdi	Called Directory Number>; rn rectory Number>; rn= +CC Ca	= +CC Called party	
	SIP-I	MGCF	SIP NNI	
Message flows	INVITE (IAM) →	MGCF → ← Apply post test routine	INVITE 100 Trying	

TP number	TP_201_040	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.2A1.2	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/2			
Test Purpose name	Number Portability Concatenat			
Test Purpose	Ensure that on receipt of an IN			
	Number is not present, the Nat			
	set to: "Network routing numbe		ectory number" or "National	
	(significant) number", an INVIT			
	The userpart of the request U			
	representing the Portability rou	ting number is removed. '+CC	' is inserted before the	
	digitstring:			
		equest URI is derived from th		
		esenting the Portability Routin	g Number are removed from	
	the digitstring. '+CC' is inse			
	The npdi URI parameter is added to the request URI			
	The userpart of the To header			
	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			
ISUP Parameter values	IAM: Called party number			
	Nature of address indicator:			
	"Network routing number concatenated with called directory number" or			
	"National (signific			
SIP Parameter values		Called Party Number>; rn= <	+CC Portability Routing	
	Number>;npdi			
	To: <+CC Called Pa	rty Number>; rn= <+CC Porta	bility Routing Number>;npdi	
Comments	- CID I		OID MAIN	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	-	INVITE	
		+	100 Trying	
		Apply post test routine		

TP number	TP_201_041	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.2A1.3			
TSS reference	SIP-I - SIP NNI/Basic call/Sen	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.2/3					
Test Purpose name	Number Portability Separate N	letwork Routing Number Addre	essing Method is used			
Test Purpose	Number Portability Separate Network Routing Number Addressing Method is used Ensure that on receipt of an INVITE with encapsulated 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 is sent The userpart of the request URI is derived from the Called Party Number. '+CC' is inserted before the digitstring: The rn parameter of the request URI is derived from the Network Routing Number. '+CC' is inserted before the digitstring The userpart of the To header field is derived from the Called Party Number. '+CC' is inserted before the digitstring: The rn parameter of the request URI is derived from the Network Routing Number. '+CC' is inserted before the digitstring:					
ISUP Parameter values	The npdi URI parameter is added to the request URI IAM: Called party number "National (significant) number" Network Routing Number Nature of address indicator: "Network routing number in national (significant) number format" or "National (significant) number" or "Network routing number in network specific number format"					
SIP Parameter values	INVITE: Request line <+CC Called Party Number>; rn= <+CC Network Routing Number>;npdi To: <+CC Called Party Number>; rn= <+CC Network Routing Number>;npdi					
Comments						
Message flows	SIP-I INVITE (IAM) →	MGCF → ← Apply post test routine	SIP NNI INVITE 100 Trying			

TP number	TP 201 042	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.2B.1			
TSS reference	SIP-I - SIP NNI/Basic	call/Sending_of_INVITE/				
Selection criteria	PICS 6.2.2/5 AND PI	CS 6.2.2/8				
Test Purpose name	Mapping of ISUP carr	rier selection information into 'ci	c' URI parameter			
Test Purpose		Ensure that on receipt of an IAM and a Transit Network Selection parameter is present, the				
	value of the Transit N	value of the Transit Network Selection parameter is sent in the cic URI parameter of the				
	Request URI of the s	Request URI of the sent INVITE request				
ISUP Parameter values	IAM: Transit Network Selection					
SIP Parameter values	INVITE: Request URI sip: <called number;cic="TNS" party="" th="" value<=""></called>					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	← 100 Trying					
	Apply post test routine					

Table 6.1.2.1-10: Void

6.1.2.2 Updating Precondition Information

TP number	TP_202_001		Reference		[1], clause 7.3.4
TSS reference	SIP-I - SIP NNI /Basic ca	all/ Upd	lating Precondition Inforr	mation/	
Selection criteria	PICS 7.2.1/3				
Test Purpose name	Update received after IN	VITE w	vas sent		
Test Purpose	For each early SIP dialogue for which a provisional response has been received from the succeeding node indicating support for preconditions the MGCF, using an UPDATE or a PRACK request, shall send a confirmation that all the required preconditions have been met				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	→	→	INVI	ΓΕ
	100 Trying	←	←	100	Trying
	183 Session Progress	←	←	183 9	Session Progress
	PRACK	→	→	PRAG	CK
	200 OK (PRACK)	←	+	200 (OK (PRACK)
	UPDATE	→	→	UPD	ATE
	200 OK(UPDATE)	←	←	200 (OK(UPDATE)
	,		Apply post test routi	ne	•

TP number	TP 202 002		Reference	[1], clause 7.3.1		
Tr Humber	11 _202_002		iverenence	[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic ca	SIP-I - SIP NNI/Basic call/Receipt of 4xx-5xx-6xx/				
Selection criteria			<u> </u>			
Test Purpose name	Mapping of unsuccessfo	ul final re	esponses to ISUP/BICC	Release messages		
Test Purpose				from the succeeding IMS node as a		
_	response either to the II	NVITE r	equest, to the UPDATE	request or to the PRACK request.		
				eption of the 580 Precondition		
				all release the call with REL		
				nt to the SIP-I based circuit-switched		
				nessage into the 480 Temporarily		
				cuit-switched 3GPP core network		
ISUP Parameter values	REL: 127 (interworking	g unspe	cified)			
SIP Parameter values	SIP_Response					
Comments	OID I		моог	OID NINII		
Message flows	SIP-I	_	MGCF	SIP NNI		
	INVITE (IAM)	→ ←	→	INVITE		
	100 Trying	-	-			
	183 Session Progress Case A	~	~	183 Session Progress		
	PRACK	→	→	PRACK		
	200 OK (PRACK)	-	7 ←			
	500 Server Internal	-	-			
	Error (REL 127-	_	~	560 Precondition failure		
	interworking					
	unspecified)					
	ACK (RLC)	→	→	ACK		
	NOIR (IREO)	-	•	Holt		
	Case B					
	PRACK	→	→	PRACK		
	200 OK (PRACK)	←	←	200 OK (PRACK)		
	UPDATÈ	→	→			
	200 OK(UPDATE)	←	←	200 OK(UPDATE)		
	,			,		
	500 Server Internal	(+	580 Precondition failure		
	Error (REL 127-					
	interworking					
	unspecified)	→	_	VCK		
	ACK (RLC)	7	→	ACK		

6.1.2.3 Sending of ACM and awaiting answer indication

TP number	TP_203_002		Reference		[1], clause 7.3.1
					[2], clause 7.2.3.2.4
TSS reference	SIP-I - SIP NNI/Basic	call/Se	nding_of_18x with enc	apsı	ulated ACM/
Selection criteria					
Test Purpose name	An ACM is sent after a	180 F	Ringing was received		
Test Purpose					oonse without P-Early-Media
					lated ACM. The Called party's
	status indicator is set	to 'subs	scriber free'. The ringing	g to	ne is sent by the SUT
ISUP Parameter values	ACM: Called party's s	tatus i	ndicator =subscriber fre	ее	
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	→		→	INVITE
	, ,			←	100 Trying
	180 Ringing (ACM)	←		←	180 Ringing
		←	Ringing tone		
	Apply post test routine				

TP number	TP_203_003	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.4		
TSS reference	SIP-I - SIP NNI/Basic call/Sei	nding_of_18x with encapsul	lated ACM/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	180 received, a P-Early-Medi	a header is present			
Test Purpose	Ensure that on receipt of a 18	0 Ringing provisional respo	onse with P-Early-Media header		
	does not authorize the backw	ard early media, the SUT s	ends a 180 Ringing with an		
	encapsulated ACM. The Calle	ed party's status indicator is	set to 'subscriber free'		
	The ringing tone is sent by the				
ISUP Parameter values	ACM: Called party's status ir	dicator =subscriber free			
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	100 Trying ←	←	100 Trying		
	180 Ringing (ACM) ←	←	180 Ringing		
	+	Ringing tone	3 3		
	Apply post test routine				

Reference	[1], clause 7.3.1			
	[2], clause 7.2.3.2.4			
nding_of_18x with encar	osulated ACM/			
/14				
a header not authorize e	early media is present			
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 a 180 Ringing with an encapsulated 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				
idicator =subscriber free				
÷	100 Trying180 RingingEarly media			
1	MGCF			

TP number	TP_203_005	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.4
TSS reference	SIP-I - SIP NNI/Basic call/Se	nding_of_18x with encaps	sulated ACM/
Selection criteria	PICS 6.2.1/9		
Test Purpose name	181 received, a P-Early-Med	ia header authorize early	media is present
Test Purpose			d and a P-Early-Media is present
			forwarded or 183 Session Progress
	with an encapsulated ACM is		
			esent, the In-band information
			attern is now available'. The SUT
	does not generate the awaiti	ng answer indication	
ISUP Parameter values	ACM: Called party's status i		
		iation or appropriate patte	rn is now available
SIP Parameter values	181		
	P-Early-Media: sendonly		
	181/183 (ACM)		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
		←	100 Trying
		+	181 Call is Being Forwarded
	CASE A		
	181 Call is Being ←		
	Forwarded		
	(ACM no indication)		
	CASE B		
	183 Session Progress		
	(ACM no indication)		
	· · · · · ·	+	Early media
		Apply post test rout	tine

TP number	TP 203 006	Reference	[1], clause 7.3.1			
Ti mamber	11 _200_000	Ttororonoo	[2], clause 7.2.3.2.4			
TSS reference	SID I SID NINI/Basis cal	II/Sending of 18x with enca				
Selection criteria	PICS 6.2.1/9	ii/Sending_or_rox with enca	apsulated ACIVI/			
		M 1: 1 1 0 :	1 2 2			
Test Purpose name		Media header authorize ear				
Test Purpose			nd a P-Early-Media header is present			
			rogress with an encapsulated ACM is			
			indication' and an optional backward			
	call indicator is present, t	the In-band information indi	cator is set to 'in-band information or			
	appropriate pattern is no	w available'. The SUT does	not generate the awaiting answer			
	indication					
ISUP Parameter values	ACM: Called party's stat	tus indicator =no indication				
	oBCi = in-band in	formation or appropriate pa	ttern is now available			
SIP Parameter values	183					
	P-Early-Media: sendo	only				
	183 (ACM)					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	← 100 Trying					
	183 Session Progress ← 183 Session Progress					
	(ACM no indication)					
	,	←	← Early media			
	Apply post test routine					

TP number	TP 203 008	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.4	
TSS reference	SIP-I - SIP NNI/Basic call/Ser	nding_of_18x with encapsula	ated ACM/	
Selection criteria	PICS 6.2.1/15			
Test Purpose name	MGW plays out early media a	ssociated with the Alert-Info	header	
Test Purpose	Ensure that the MGW plays a	n early media associated wi	th the URL in an Alert-Info header	
	contained in a received 180 R	linging response		
ISUP Parameter values				
SIP Parameter values	180: Alert-Info: < Media res	ource URL>		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	NVITE	
	, ,	← ·	100 Trying	
	180 Ringing (ACM free) ←	← ·	180 Ringing	
	Apply post test routine			

TP number	TP_203_010	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsulate	d 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		
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	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE ← 100 Trying	
	183 Session Progress (ACM)	+ +	← 183 Session Progress← Early media	
	Apply post test routine			

TP number	TP 203 011	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Ser	nding_of_18x with encaps	ulated ACM/		
Selection criteria					
Test Purpose name	180 received, coding of Backy	vard call indicator in ACM	TMR speech or 3,1 kHz audio		
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received. Ensure that on receipt of a 180 Ringing response, a 183 Session Progress with an encapsulated 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)				
10110	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	OID I	11005	OID MAIL		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	← 100 Trying				
	180 Ringing (ACM) ← ← 180 Ringing				
	Apply post test routine				

TP number	TP_203_012	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_c	f_18x with encapsula	ted ACM/		
Selection criteria					
Test Purpose name	181 received, coding of Backward ca				
Test Purpose	INVITE with encapsulated IAM with or 3,1 kHz received. Ensure that on 181 Being Forwarded or 183 Sessio Backward call indicator is set to the Charge indicator = charge (10) Called party's status indicator = Called party's category indicator = End-to-end method indicator = Interworking indicator = interworking indicator = interworking indicator = interworking indicator = ISDN user part/BICC indicator = ISDN access indicator = termina Echo control device indicator = interworking indicator = interventional indicator = inter	receipt of a 181 Call is in Progress with encap following values: no indication (00) r = no indication (00) no end-to-end method king encountered (1) r = no end-to-end infor ISDN user part not use	s Being forwarded response, a soluted ACM is sent and the available (00) rmation available (0) sed all the way (0)		
ISUP Parameter values	IAM: Transmission Medium Requir	ement indicator=spee	ch or 3,1 kHz		
SIP Parameter values	181/183 (ACM): Backward call indicator				
Comments					
Message flows	SIP-I INVITE (IAM) CASE A 181 Call is Being forwarded (ACM) CASE B	€	SIP NNI INVITE 100 Trying 181 Call is Being forwarded		
	183 Session Progress (ACM)				
	` ` '	ply post test routine			

TP number	TP 203 013	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 18x with encapsu			
Selection criteria	PICS 6.2.1/9 AND NOT PICS 6				
Test Purpose name	183 received, coding of Backw	ard call indicator in ACM	TMR speech or 3,1 kHz audio		
Test Purpose	INVITE with encapsulated IAM	with Transmission Mediu	m Requirement indicator=speech		
	or 3,1 kHz received. Ensure the				
			encapsulated ACM is sent and the		
	Backward call indicator is set to	o the following values:			
	 Charge indicator = charge 	(10)			
	 Called party's status indicate 	ator = no indication (00)			
	 Called party's category inc 	licator = no indication (00))		
	 End-to-end method indica 	tor = no end-to-end metho	od available (00)		
	Interworking indicator = interworking encountered (1)				
	End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	 ISDN access indicator = te 	erminating access non-ISI	ON (0)		
	 Echo control device indica 	tor = incoming echo contr	rol device included (1)		
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
SIP Parameter values	183: P-Early-Media: sendonly				
	183 (ACM)				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	183 Session Progress ←	←	183 Session Progress		
	(ACM)				
		Apply post test routine			

TP number	TP_203_014	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsula	ted ACM/	
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6	5.2.1/18		
Test Purpose name	180 received, coding of Backwa	ard call indicator in ACM TN	MR 64 kBit/s unrestricted	
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s			
	unrestricted received. Ensure t	hat on receipt of a 180 Ring	ging response, a 180 Ringing with	
	an encapsulated ACM is sent a	and the Backward call indica	ator is set to the following values:	
	 Charge indicator = charge 	(10)		
	 Called party's status indica 	tor = 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)			
		ator = ISDN user part not u		
		rminating access non-ISDN		
		tor = incoming echo control	` '	
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	NVITE	
		← 1	00 Trying	
	180 Ringing (ACM) ←	← 1	80 Ringing	
		Apply post test routine	5 5	

TSS reference	TP_203_015	Reference	[1], clause 7.3.1		
	OID I OID NINI/D: II/Oiif		1121 0101100 7 2 2 2 5 1		
		19v with openeulated	[2], clause 7.2.3.2.5.1		
Selection criteria	SIP-I - SIP NNI/Basic call/Sending_of_ PICS 6.2.4/2 AND NOT PICS 6.2.1/18		ACIVI/		
	181 received, coding of Backward call		64 kPit/s uprostricted		
	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 181 Call is Being forwarded response, a				
	181 Being Forwarded or 183 Session		ated ACIVI is sent and the		
	Backward call indicator is set to the fol	llowing values.			
	Charge indicator = charge (10)	- :l: t: (00)			
	Called party's status indicator = no	` ,			
	 Called party's category indicator = 				
	 End-to-end method indicator = no 		allable (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)				
	IAM: Transmission Medium Requirer	ment indicator=64 kBit/s	s unrestricted		
SIP Parameter values	181/183 (ACM):				
	Backward call indicator				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	IAM	→	INVITE		
	← 100 Trying				
	← 181 Call is Being forwarded				
	CASE A				
	181 Call is Being forwarded (ACM) ←				
	CASE B				
	183 Session Progress (ACM) ←				
	Apply post test routine				

TP number	TP_203_016	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsu			
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18 AND PICS 6.2.1/	/9		
Test Purpose name	183 received, coding of Backw	ard call indicator in ACM	TMR 64 kBit/s unrestricted		
Test Purpose			um Requirement indicator=64 kBit/s		
			ession Progress response, a 183		
	Session Progress with an enca	apsulated ACM is sent an	d the Backward call indicator is set		
	to the following values:				
	 Charge indicator = charge 	e (10)			
	 Called party's status indic 	ator = no indication (00)			
	 Called party's category in 	dicator = 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 = t 	erminating access non-IS	DN (0)		
	 Echo control device indica 	ator = incoming echo cont	rol device not included (0)		
ISUP Parameter values	IAM: Transmission Medium	Requirement indicator=64	kBit/s unrestricted		
SIP Parameter values	183: P-Early-Media: sendonly	•			
	183 (ACM)				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	, ,	←	100 Trying		
	183 Session Progress ←	←	183 Session Progress		
	(ACM)				
	Apply post test routine				

TP number	TP_203_017	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsu	ılated ACM/		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	18			
Test Purpose name	180 received, coding of Backw	ard call indicator in ACM	TMR 64 kBit/s unrestricted		
Test Purpose	INVITE with encapsulated IAM	l with Transmission Mediւ	um Requirement indicator=64 kBit/s		
	unrestricted received. Ensure t	that on receipt of a 180 R	inging response, a 180 Ringing with		
	an encapsulated ACM is sent a	and the Backward call ind	licator is set to the following values:		
	 Charge indicator = charge 	(10)			
	 Called party's status indicate 	ator = subscriber free (01)		
	 Called party's category inc 	dicator = 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 indice				
	 ISDN access indicator = to 				
	Echo control device indicate				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	180 Ringing (ACM) ←	←	180 Ringing		
	,	Apply post test routine			

TP number	TP_203_018	Reference		[1], clause 7.3.1
				[2], clause 7.2.3.2.5.1
TSS reference	SIP-I - SIP NNI/Basic call/Send		ith encapsulated	ACM/
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/1	•		
Test Purpose name	181 received, coding of Backwa			
Test Purpose	INVITE with encapsulated IAM unrestricted received. Ensure the 181 Being Forwarded or 183 Set Backward call indicator is set to Charge indicator = charge Called party's status indicate Called party's category indicated End-to-end method indicated Interworking indicator = no End-to-end information indicator ISDN user part/BICC indicator ISDN access indicator = te Echo control device indicator	nat on receipt ession Progre to the following (10) tor = no indicaticator = no indicator = no end-to interworking icator = no en ator = ISDN u	of a 181 Call is Iss with encapsul values: eation (00) dication (00) o-end method avagencountered (d-to-end informations in the ser part used all cess ISDN (1)	Being forwarded response, a lated ACM is sent and the ailable (00) 0) ation available (0) If the way (1)
ISUP Parameter values	IAM: Transmission Medium R	lequirement in	idicator=64 kBit/	s unrestricted
SIP Parameter values	181/183 (ACM): Backward call indicator			
Comments				
Message flows	SIP-I INVITE (IAM)	→	←	SIP NNI INVITE 100 Trying 181 Call is Being forwarded
	181 Call is Being forwarded (ACM) ← CASE B			
	183 Session Progress (ACM)			
		Apply post	test routine	

TP number	TP_203_019	Reference	[1], clause 7.3.1	
ir number	17_203_019	Reference	[2], clause 7.2.3.2.5.1	
TCC reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/			
TSS reference			ACM/	
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/1			
Test Purpose name	183 received, coding of Backwa			
Test Purpose	INVITE with encapsulated IAM v			
	unrestricted received. Ensure th			
	Session Progress with an encap	sulated ACM is sent and the	Backward call indicator is set	
	to the following values:			
	 Charge indicator = charge (10)		
	Called party's status indicat			
	Called party's category indicate	` ,		
	End-to-end method indicator = no end-to-end method available (00)			
	Interworking indicator = no interworking encountered (0)			
		cator = no end-to-end informa		
		tor = ISDN user part used al	i the way (1)	
		minating access ISDN (1)		
		or = incoming echo control de		
ISUP Parameter values		equirement indicator=64 kBit/s	s unrestricted	
SIP Parameter values	183: P-Early-Media: sendonly			
	183 (ACM)			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	, ,		← 100 Trying	
	183 Session Progress (ACM)	←	← 183 Session Progress	
	rec eccient regress (rem)	Apply post test routine	100 Coccion Flogress	
		Apply post test routille		

TP number	TP_203_020	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsu	ılated ACM/	
Selection criteria				
Test Purpose name	180 received, coding of Backw	ard call indicator in ACM	HLC "Facsimile Group 2/3"	
Test Purpose			um Requirement indicator=3,1 kHz	
			eived. Ensure that on receipt of a	
			ited ACM is sent and the Backward	
	call indicator is set to the follow	ving values:		
	 Charge indicator = charge 	(10)		
	 Called party's status indicate 	ator = subscriber free (01))	
	 Called party's category inc 	licator = 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 indic 			
	 ISDN access indicator = te 			
	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	SIP-I	MGCF	ISUP	
_	INVITE (IAM) →	→	INVITE	
	, , ,	+	100 Trying	
	180 Ringing (ACM) ←	+	180 Ringing	
	Apply post test routine			

TP number	TP_203_021	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.5.1
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 18x with encaps	
Selection criteria	On 1 On 1414//Basis sail/Cone	ang_or_rox with oncaper	alatoa / tolvii
Test Purpose name	181 received, coding of Backw	ard call indicator in ACM	HLC "Facsimile Group 2/3"
Test Purpose	INVITE with encapsulated IAM and High Layer Compatibility = 181 Call is Being forwarded reswith encapsulated ACM is sent values: Charge indicator = charge Called party's status indicate Called party's category independent of the company of the c	with Transmission Mediu Facsimile Group 2/3 rec sponse, a 181 Being Fon and the Backward call in (10) ator = no indication (00) licator = no indication (00) for = no end-to-end meth terworking encountered (licator = no end-to-end in ator = ISDN user part no erminating access non-IS	um Requirement indicator=3,1 kHz evived. Ensure that on receipt of a warded or 183 Session Progress indicator is set to the following o) ood available (00) (1) information available (0) it used all the way (0)
ISUP Parameter values		Requirement indicator=3,	, ,
SIP Parameter values	181/183 (ACM): Backward call indicator		
Comments			
Message flows	SIP-I INVITE (IAM) CASE A 181 Call is Being forwarded (Al CASE B 183 Session Progress (ACM)	MGCF → CM) ← Apply post test routi	SIP NNI → INVITE ← 100 Trying ← 181 Call is Being forwarded
		Apply post test fouti	

TP number	TP 203 022	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsulat	ed ACM/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	183 received, coding of Backw	ard call indicator in ACM HL	C "Facsimile Group 2/3"	
Test Purpose	INVITE with encapsulated IAM	with Transmission Medium	Requirement indicator=3,1 kHz	
	and High Layer Compatibility =	Facsimile Group 2/3 receive	ed. Ensure that on receipt of a	
	183 Session Progress respons	e, a 183 Session Progress v	vith an encapsulated ACM is	
	sent and the Backward call ind	icator is set to the following	values:	
	 Charge indicator = charge 	(10)		
	 Called party's status indicate 	ator = no indication (00)		
	 Called party's category inc 	licator = no indication (00)		
	 End-to-end method indica 	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)		
		ator = ISDN user part not us		
		erminating access non-ISDN		
		tor = incoming echo contr		
ISUP Parameter values		Requirement indicator=3,1 kl		
		y = Facsimile Group 2/3		
SIP Parameter values		•		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	, ,		← 100 Trying	
	183 Session Progress (ACM)			
	Apply post test routine			

TP number	TP 203 023	li	Reference	[1], clause 7.3.1			
III IIdilibei	11 _203_023		(CICICIICC	[2], clause 7.2.3.2.5.1			
T00	CID I CID NINII/D:-	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/					
TSS reference	1	call/Sendi	ng_ot_18x with enca	apsulated ACM/			
Selection criteria	PICS 6.2.1/5						
Test Purpose name	Mapping of PSTN XM	L Progress	sIndicator 1 into Bad	ckward call indicator in ACM			
Test Purpose	Ensure that on receipt	t of a 180 I	Ringing and the PS1	TN XML ProgressIndicator is present,			
	the value 1 is mapped	I into the E	ackward call indicat	tor present in the encapsulated ACM:			
	ISDN User Part indica	itor					
	 ISDN User Part n 	ot used al	the way (0)				
ISUP Parameter values	ACM: ISDN User Par	t indicator	• • •				
	ISDN User	Part not	used all the way				
SIP Parameter values	180:						
	xml version="1.0" e</td <td colspan="5"><pre><?xml version="1.0" encoding="utf-8"?></pre></td>	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN						
	ProgressIndicator	ProgressIndicator					
	ProgressOctet						
	ProgressDe		0000001<				
Comments				further call progress information may			
	be available in-band'						
Message flows	SIP-I						
	INVITE (IAM)	→		→ INVITE			
	, ,			← 100 Trying			
	180 Ringing (ACM)	←		← 180 Ringing			
1.00 199 (1.00)				5 5			
<u> </u>	Apply post test routine						

TP number	TP 203 024	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 180 into Ba	ckward call indicator in ACM		
Test Purpose	Ensure that on receipt of a 180 Ringing and the PSTN XML ProgressIndicator is present,				
		Backward call indicator pre	sent in the encapsulated ACM:		
	ISDN User Part indicator				
	ISDN User Part used	all the way (1)			
	ISDN access indicator				
	 Terminating access no 				
ISUP Parameter values	ACM: ISDN User Part indicator				
	ISDN User Part used all the way				
	ISDN access indicator				
	Terminating access non-ISDN				
SIP Parameter values	180:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
-	ProgressDescription>0000010<				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	-	NVITE		
			100 Trying		
	180 Ringing (ACM) ←		180 Ringing		
	Apply post test routine				

TP number	TD 203 025	Defer		[4] alauga 7.2.4		
i P number	TP_203_025	Refer	ence	[1], clause 7.3.1		
T00 ([2], clause 7.2.3.2.5.1					
TSS reference		SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated 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,					
			ard call indicator p	present in the encapsulated ACM:		
	ISDN User Part indica	tor				
	 ISDN User Page 	art used all the	way (1)			
	ISDN access indicator					
	 Terminating a 	access ISDN (1)			
	Interworking indicator					
	 no interworkii 	ng encountered	(0)			
ISUP Parameter values	ACM: ISDN User Part indicator					
	ISDN User	Part used all t	he way			
	ISDN access in	ISDN access indicator				
	Terminating access ISDN					
	Interworking indicator					
	no interworking encountered					
SIP Parameter values	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet ²	1				
		escription>0000				
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	→	→	INVITE		
			←	100 Trying		
	180 Ringing (ACM)	←	←	180 Ringing		
	Apply post test routine					

TP number	TP_203_026	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 180 into o	ptional Backward call indicator in		
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 encapsulated 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				
loor rarameter varies	In-band information indicator				
	in-band information or an appropriate pattern is now available				
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"? PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0001000<				
Comments	Progress Information 'In-band information or an appropriate pattern is now available'				
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	180 Ringing (ACM) ←	←	180 Ringing		
	Apply post test routine				

TP number	TP 203 027	Reference	[1], clause 7.3.1		
I IIdilibei	11 _203_027	Kelelelice	[2], clause 7.2.3.2.5.1		
T00 (CID I CID NAIVO: IVOi:				
TSS reference	SIP-I - SIP NNI/Basic call/Sendir	ig_of_18x with encapsulated	ACM/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN XML Progress	<u>Indicator 1 in 183 into Backw</u>	vard call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183 S				
	present, the value 1 is mapped in	nto the Backward call indicate	or present in the encapsulated		
	ACM:				
	ISDN User Part indicator				
	ISDN User Part not used all	the way (0)			
ISUP Parameter values	ACM: ISDN User Part indicator				
	ISDN User Part not u	ised all the way			
SIP Parameter values	183: P-Early-Media: sendonly				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments	Progress Information: 'Call is not	end-to-end ISDN: further ca	Il progress information may be		
	available in-band'		•		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) → INVITE				
	← 100 Trying				
	183 Session Progress (ACM)	←	← 183 Session Progress		
	Apply post test routine				

TP number	TP_203_028	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic call/Sendir	ng_of_18x with encapsulated	ACM/	
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9			
Test Purpose name	Mapping of PSTN XML Progress	Indicator 2 in 183 into Backw	ard call indicator in ACM	
Test Purpose	Ensure that on receipt of a 183 S			
	present, the value 2 is mapped in	nto the Backward call indicate	or present in the encapsulated	
	ACM:			
	ISDN User Part indicator			
	 ISDN User Part used al 	I the way (1)		
	ISDN access indicator			
	 Terminating access nor 	n-ISDN (0)		
ISUP Parameter values	ACM: ISDN User Part indicator			
	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>0000010<			
Comments	Progress Information: 'Destination			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
			← 100 Trying	
	183 Session Progress (ACM)	←	← 183 Session Progress	
		Apply post test routine	-	

TP number	TD 202 020	Deference	[41] alaura 7.0.4		
IP number	TP_203_029	Reference	[1], clause 7.3.1		
T00 ([2], clause 7.2.3.2.5.1				
TSS reference		SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 7 in 183 into Backward call indicator in ACM				
Test Purpose	Ensure that on receipt of a 183 Session Progress and the PSTN XML ProgressIndicator is				
		present, the value 7 is mapped into the Backward call indicator present in the encapsulated			
	ACM:				
	ISDN User Part indicator				
	ISDN User Part used	all the way (1)			
	ISDN access indicator				
	 Terminating access IS 	SDN (1)			
	Interworking indicator				
	 no interworking encou 	ıntered (0)			
ISUP Parameter values	ACM: ISDN User Part indicator				
	ISDN User Part used all the way				
	ISDN access indicator				
	Terminating acces	s non-ISDN			
	Interworking indicator				
	no interworking en				
SIP Parameter values	183: P-Early-Media: sendonl				
	xml version="1.0" encoding=</p	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: value no	t specified. Meaning 'terminati			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) → INVITE				
			← 100 Trying		
	183 Session Progress (ACM)	←	← 183 Session Progress		
	Apply post test routine				
	1	1171			

TP number	TP_203_030	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.1	
TSS reference	SIP-I - SIP NNI/Basic call/Sending of 18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	9		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 8 in 183 into Backw	ard call indicator in ACM	
Test Purpose	Ensure that on receipt of a 183	Session Progress and the PS	TN XML ProgressIndicator is	
	present, the value 8 is mapped	into the Optional backward ca	Il indicator present in the	
	encapsulated ACM:			
	Optional backward call indic			
	In-band information indi	cator		
	 in-band information 	or an appropriate pattern is no	ow 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			
	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	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
			← 100 Trying	
	183 Session Progress (ACM)	←	← 183 Session Progress	
		Apply post test routine	-	

TP number	TP 203 031	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.2	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ing_of_18x with encapsulated	ACM/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Mapping of P-Early-Media head	der in 183 into Optional backw	ard call indicator in ACM	
Test Purpose	Ensure that on receipt of a 183			
	authorizing backward early med	dia is mapped into the Backwa	rd call indicator present in the	
	encapsulated 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 informati	on or an appropriate pattern is	now available	
SIP Parameter values	183: P-Early-Media: sendonly	/		
Comments	Progress Information 'In-band i	nformation or an appropriate p	attern is now available'	
Message flows	SIP-I MGCF SIP NNI			
	INVITE (IAM)	→	→ INVITE	
			← 100 Trying	
	183 Session Progress (ACM)	←	← 183 Session Progress	
	Apply post test routine			

TP number	TP 203 032	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.2	
TSS reference	SIP-I - SIP NNI/Basic call/Send	ing_of_18x with encapsulated	ACM/	
Selection criteria	PICS 6.2.1/9			
Test Purpose name	Mapping of P-Early-Media head	der in 181 into Optional backwa	ard call indicator in ACM	
Test Purpose	Ensure that on receipt of a 181	Call is Being Forwarded and t	he P-Early-Media authorizing	
	backward early media is mappe	ed into the Backward call indica	ator present in the	
	encapsulated ACM:			
	Optional backward call indic	cators		
	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 informati	on or an appropriate pattern is	now available	
SIP Parameter values	183: P-Early-Media: sendonly			
Comments	Progress Information 'In-band information or an appropriate pattern is now available'			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) → INVITE			
	← 100 Trying			
	181 Call is Being Forwarded	←	← 181 Call is Being	
	(ACM)		Forwarded	
	Apply post test routine			

TP number	TP 203 033	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/5	<u> </u>		
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 1 in 180 into the Ac	cess Transport Parameter	
Test Purpose	Ensure that on receipt of a 180			
	the value 1 is mapped into the	Access Transport Parameter c	ontaining the Progress	
	Indicator value 1 in the ACM:			
	Access Transport Parameter			
	Progress Indicator			
	 Progress Description 	on='0000001'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Descrip	otion='0000001'		
SIP Parameter values	180:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription	>000001<		
Comments	Progress Information: 'Call is no	ot end-to-end ISDN: further ca	ll progress information may	
	be available in-band'			
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM) →		→ INVITE	
	, ,		← 100 Trying	
	180 Ringing (ACM) ←		← 180 Ringing	
	3 3 (1,	Apply post test routine	3 3	

TP number	TP_203_034	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.4		
TSS reference	SIP-I - SIP NNI/Basic call/Send	SIP-I - SIP NNI/Basic call/Sending of 18x with encapsulated 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		er containing the Progress		
	Indicator value 2 in the encaps	ulated ACM:			
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description= 	='0000010'			
ISUP Parameter values	ACM: Access Transport				
		Progress Indicator			
	Progress Description='0000010'				
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000010<			
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	NVITE		
		← 1	100 Trying		
	180 Ringing (ACM) ←	← 1	180 Ringing		
	Apply post test routine				

TP number	TP 203 035	Reference	[1], clause 7.3.1		
		11010101100	[2], clause 7.2.3.2.5.4		
TSS reference	SIP-I - SIP NNI/Basic call/	SIP-I - SIP NNI/Basic call/Sending of 18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	PSTN XML ProgressIndica	ator 7 in 180 is not map	ped into the Access Transport Parameter		
Test Purpose	Ensure that on receipt of a	180 Ringing and the P	STN XML ProgressIndicator is present,		
_	the value 7 is not mapped	into the Access Transpo	ort Parameter in the encapsulated ACM		
ISUP Parameter values	ACM: No Access Transpo	ort Parameter present			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	•	→ INVITE		
			← 100 Trying		
	180 Ringing (ACM)	(← 180 Ringing		
	Apply post test routine				

TP number	TP_203_036	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.4		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsul	ated ACM/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name			e Access Transport Parameter		
Test Purpose			ML ProgressIndicator is present,		
	the value 8 is mapped into the		ter containing the Progress		
	Indicator value 8 in the encaps	ulated ACM:			
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description 	on='0001000'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='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	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →		INVITE		
			100 Trying		
	180 Ringing (ACM) ←	←	180 Ringing		
		Apply post test routin	e		

TP number	TP_203_037	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.5.4			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_18x with encapsເ	ılated 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 t	he Access Transport Parameter			
Test Purpose			ne P-Early-Media header and PSTN			
	XML ProgressIndicator is prese					
	Parameter containing the Prog	ress Indicator value 1 in t	he encapsulated ACM:			
	Access Transport Parameter					
	Progress Indicator					
	 Progress Description 	='000001'				
ISUP Parameter values	ACM: Access Transport					
	Progress Indicator					
	Progress Descrip	otion='0000001'				
SIP Parameter values	183: P-Early-Media: sendonly					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>000001<				
Comments	Progress Information: 'Call is n	ot end-to-end ISDN: furth	er call progress information may			
	be available in-band'					
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) → INVITE					
	. ,	←	100 Trying			
	183 Session Progress ←	←	183 Session Progress			
	(ACM)		3			
		Apply post test routing	ne			

TP number	TP_203_038	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.4		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_18x with encapsເ	ılated 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 t	he Access Transport Parameter		
Test Purpose			ne P-Early-Media header and PSTN		
	XML ProgressIndicator is pres				
	Parameter containing the Prog	ress Indicator value 2 in t	he encapsulated ACM:		
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description 	='0000010'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000010'			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	n> 0000010 <			
Comments	Progress Information: 'Destina	tion address is non-ISDN'			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	183 Session Progress ←	←	183 Session Progress		
	(ACM)		-		
		Apply post test routing	ne		

TP number	TP_203_039	Reference	[1], clause 7.3.1				
			[2], clause 7.2.3.2.5.4				
TSS reference	SIP-I - SIP NNI/Basic call/Sendir	ng_of_18x with encapsulated	ACM/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9						
Test Purpose name	PSTN XML ProgressIndicator 7	in 183 is not mapped into the	Access Transport Parameter				
Test Purpose	Ensure that on receipt of a 183 S						
	present, the value 7 is not mappe	ed into the Access Transport	Parameter in the				
	encapsulated ACM						
ISUP Parameter values	ACM: No Access Transport Par	ameter present					
SIP Parameter values	183: P-Early-Media: sendonly						
	xml version="1.0" encoding="i</th <th>utf-8"?></th> <th></th>	utf-8"?>					
	PSTN	PSTN					
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription>0000111<						
Comments	Progress Information: value not	specified. Meaning 'terminatii	ng user is ISDN'				
Message flows	SIP-I	MGCF	SIP NNI				
	INVITE (IAM)	→	→ INVITE				
		← 100 Trying					
	183 Session Progress (ACM)	←	← 183 Session Progress				
	, ,	Apply post test routine	3				

TP number	TP 203 040	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.4		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 18x with encapsulated			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 8 in 183 into the Ac	cess Transport Parameter		
Test Purpose	Ensure that on receipt of a 183	Session Progress and the P-E	arly-Media header and PSTN		
	XML ProgressIndicator is prese	ent, the value 8 is mapped into	the Access Transport		
	Parameter containing the Prog	ress Indicator value 8 in the en	capsulated ACM:		
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description 	on='0001000'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descri	otion='0001000'			
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 i	nformation or an appropriate p	attern is now available'		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
			← 100 Trying		
	183 Session Progress (ACM)	←	← 183 Session Progress		
	Apply post test routine				

6.1.2.4 Sending of the Call Progress message (CPG)

TP number	TP 204 002	R	eference	[1], clause 7.3.1	
				[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic ca	II/Sendin	g_of_CPG in encapsul	ated 18x message/	
Selection criteria	PICS 6.2.1/9				
Test Purpose name	181 received, CPG is se	nt			
Test Purpose				a 181 Call is Being Forwarded with	
	encapsulated PG is sent	. The Eve	ent information parame	eter in the CPG is set to 'progress'	
ISUP Parameter values	CPG: Event indication=				
SIP Parameter values	181: P-Early-Media: se	endonly			
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	→	→	INVITE	
	180 Ringing (ACM)	←	←	180 Ringing	
	181 Call is Being	←	←	181 Call is Being Forwarded	
	Forwarded (CPG)			•	
	early media early media				
	Apply post test routine				

TP number	TP_204_003	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6			
TSS reference	SIP-I - SIP NNI/Basic ca	all/Sending_of_CPG in end	apsulated 18x message/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is not autho	orized if no P-Early-Media h	neader is present in the 180			
Test Purpose	the 180 Ringing contain	Ensure that on receipt of a 180 Ringing a 180 Ringing with an encapsulated 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	183: P-Early-Media he 180: P-Early-Media: ir	•				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	183 Session Progress (ACM)	←	← 183 Session Progress			
	180 Ringing CPG	←	← 180 Ringing			
	ringing tone					
		Apply post test	routine			

TP number	TP 204 004		Reference	[1], clause 7.3.1	
I Hamber	11 _204_004		(CICICIICC	[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic ca	all/Candii	ag of CDC in ancon		
	-	ali/Seriuli	ig_oi_CPG in encaps	suiateu Tox message/	
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is not author 180	orized if I	P-Early-Media header	does not authorize early media in the	
Test Purpose	Ensure that on receipt of a 180 Ringing a 180 Ringing with an encapsulated 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: ir	nactive			
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
_	INVITE (IAM)	→	-	NVITE	
	183 Session Progress (ACM)	←	•	183 Session Progress	
	180 Ringing (CPG)	←	+	180 Ringing	
	ringing tone				
		-	Apply post test rou	ıtine	

TD	TD 004 005	D-4-		[41 -1 7.0.4	
TP number	TP_204_005	Rete	rence	[1], clause 7.3.1	
				[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic ca	all/Sending_o	f_CPG in encapsula	ted 18x message/	
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is authorize	ed if P-Early-N	Media header author	ize early media in the 180	
Test Purpose	Ensure that on receipt of a 180 Ringing a 180 Ringing with an encapsulated 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	SIP-I		MGCF	SIP NNI	
	INVITZE (IAM)	→	→	INVITE	
	183 Session Progress (ACM)	←	+	183 Session Progress	
	180 Ringing (CPG) early media	(←	180 Ringing early media	
		Ap	oly post test routin	•	

TP number	TP_204_006		Reference	[1], clause 7.3.1	
				[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic cal	II/Send	ing_of_CPG in encaps	ulated 18x message/	
Selection criteria	PICS 6.2.1/14				
Test Purpose name	The SUT has the knowle answer indication is not g	•		o a PSTN network, the awaiting	
Test Purpose	Ensure that the SUT does not generate the awaiting answer indication if it has the local knowledge that the call is transited to a PSTN network and the early media is not authorized				
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	→	→	INVITE	
	183 Session Progress (ACM)	(+	183 Session Progress	
	180 Ringing (CPG) early media	←	+	180 Ringing early media	
			Apply post test rou	tine	

TP number	TP 204 007	ь	eference	[1] clause 7.3.1		
i F number	TP_204_007		elelelice	[1], clause 7.3.1		
				[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic ca	all/Sendin	g_of_CPG in encapsu	lated 18x message/		
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is authorize	ed if P-Ea	rly-Media header autho	orize early media in the 183		
Test Purpose	Ensure that on receipt of	of a 183 S	ession Progress a 183	B Session Progress with an		
	encapsulated CPG is se	ent. If the	183 Session Progress	contains a P-Early-Media header		
				awaiting answer indication and		
	connects through the ea					
ISUP Parameter values	Ŭ					
SIP Parameter values	183: P-Early-Media: s	endonly				
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	→	→	INVITE		
	180 Ringing	(+	180 Ringing		
	(ACM - free)			3 3		
	183 Session Progress	←	+	183 Session Progress		
	(CPG)		_			
	early media	early media early media				
			Apply post test routi	ne		

TP number	TP_204_008	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_CPG in encapsulated	18x message/		
Selection criteria	PICS 6.2.1/9		_		
Test Purpose name	Early media is authorized if P-E	arly-Media header authorize e	early media in the 181		
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded a 181 Call is Being Forwarded with encapsulated CPG is sent. If the 181 Call is Being Forwarded contains a P-Early-Media header authorizing early media, the SUT terminates sending of awaiting answer indication and connects through the early media in backward direction				
ISUP Parameter values					
SIP Parameter values	181: P-Early-Media: sendonly	/			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→ →	NVITE		
	180 Ringing (ACM)	← ← 1	80 Ringing		
	CASE A	← 1	81 Call is Being Forwarded		
	183 Session Progress (CPG)	←	-		
	CASE B				
	181 Call is Being Forwarded (CPG)	←			
	early media	6	early media		
		Apply post test routine			

TP number	TP_204_009	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_CPG in encapsulated	18x message/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	The SUT change the authoriza	tion of early media as indicate	ed in the P-Early-Media			
	received in 180	received in 180				
Test Purpose		Ensure that the SUT terminates the sending of awaiting answer indication and connect				
			uthorization in the received 180			
	Ringing response and early media was not authorized before					
ISUP Parameter values						
SIP Parameter values	183: P-Early-Media: inactive					
	180: P-Early-Media: sendonly					
Comments						
Message flows	SIP-I	MGCF	SIP NN			
	INVITE(IAM)	→	→ INVITE			
	183 Session Progress(ACM)	-	 183 Session Progress 			
	ringing tone					
	180 Ringing(CPG)	←	← 180 Ringing			
	early media		early media			
	Apply post test routine					

TP number	TP_204_010	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/S	Sending_of_CPG in encaps	sulated 18x message/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	The SUT change the authorization of early media as indicated in the P-Early-Media received in 180				
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication and removes authorization of early media if the P-Early-Media header indicates no authorization of early media received in the 180 Ringing and early media was authorized before				
ISUP Parameter values					
SIP Parameter values	183: P-Early-Media: send				
Comments	•				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	•	NVITE		
	183 Session Progress ← (ACM - no indication)	•	183 Session Progress		
	early media		early media		
	180 Ringing (CPG) ←	•	180 Ringing		
	ringing	tone	5 5		
	Apply post test routine				

TP number	TP 204 011	Refere	ence	[1], clause 7.3.1			
				[2], clause 7.2.3.2.6.1			
TSS reference	SIP-I - SIP NNI/Basic call	SIP-I - SIP NNI/Basic call/Sending_of_CPG in encapsulated 18x message/					
Selection criteria	PICS 6.2.1/5 AND PICS 6	6.2.1/9					
Test Purpose name	Mapping of PSTN XML P	rogressIndica	ator 1 in 183 into A	ATP in the CPG			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in a 183 Session						
	Progress, a 183 Session	Progress with	n encapsulated Cl	PG is sent and an Access			
	Transport Parameter is p	resent contai	ning a Progress Ir	ndicator #1			
ISUP Parameter values	CPG: Access Transport	CPG: Access Transport					
	Progress Indic	ator					
	Progress Description='0000001'						
SIP Parameter values	183: P-Early-Media: sendonly						
	xml version="1.0" enco</th <th colspan="5"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN						
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescr	ription> 0000 0	01<				
Comments							
Message flows	SIP-I	M	IGCF	SIP NNI			
	INVITE (IAM)	→	→	INVITE			
	180 Ringing (ACM)	←	←	180 Ringing			
	100 00001011 1 1091000	(←	183 Session Progress			
	(CPG) Apply post test routine						

TP number	TP_204_012	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6.1			
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_CPG in encapsulated 18x message/					
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1	1/9				
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 2 in 183 into A	ATP in the CPG			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 2 in a 183 Session					
	Progress, a 183 Session Progress	gress with encapsulated C	PG is sent and an Access			
	Transport Parameter is prese	nt containing a Progress Ir	ndicator #2			
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
	Progress Desc	ription='0000010'				
SIP Parameter values	183: P-Early-Media: sendonly					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	on> 0000010 <				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
	180 Ringing (ACM) ←	←	180 Ringing			
	183 Session Progress ←	←	183 Session Progress			
	(CPG)					
		Apply post test routi	ne			

TP_204_013 Reference [1], clause 7.3.1 [2], clause 7.2.3.2.6 TSS reference SIP-I - SIP NNI/Basic call/Sending_of_CPG in encapsulated 18x message/ Selection criteria PICS 6.2.1/5 AND PICS 6.2.1/9 Test Purpose name Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport					
TSS reference SIP-I - SIP NNI/Basic call/Sending_of_CPG in encapsulated 18x message/ PICS 6.2.1/5 AND PICS 6.2.1/9 Test Purpose name Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport Progress Indicator					
Selection criteria PICS 6.2.1/5 AND PICS 6.2.1/9 Test Purpose name Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG Test Purpose Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport Progress Indicator					
Test Purpose name Mapping of PSTN XML ProgressIndicator 4 in 183 into ATP in the CPG Test Purpose Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport Progress Indicator					
Test Purpose Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 183 Session Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport Progress Indicator					
Progress, a 183 Session Progress with encapsulated CPG is sent and an Access Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport Progress Indicator					
Transport Parameter is present containing a Progress Indicator #4 ISUP Parameter values CPG: Access Transport Progress Indicator					
ISUP Parameter values CPG: Access Transport Progress Indicator					
Progress Indicator					
B B : (: 100004001					
Progress Description='0000100'					
SIP Parameter values 180:					
<pre><?xml version="1.0" encoding="utf-8"?></pre>					
PSTN					
ProgressIndicator					
ProgressOctet4					
ProgressDescription>0000001<					
or					
ProgressDescription>0000010<	ProgressDescription>0000010<				
183: P-Early-Media: sendonly					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
PSTN					
ProgressIndicator					
ProgressOctet4					
ProgressDescription>0000100<					
Comments					
Message flows SIP-I MGCF SIP NNI					
INVITE (IAM) → INVITE					
180 Ringing (ACM) ← 180 Ringing					
183 Session Progress ← 183 Session Progress					
(CPG)					
Apply post test routine					

TP number	TP_204_014	Reference	[1], clause 7.3.1		
TCC votovovo	CID I CID NINII/Dania anii/	Conding of CDC in an annual	[2], clause 7.2.3.2.6		
TSS reference		Sending_of_CPG in encapsula	ited 18x message/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.		ATT 1 11 000		
Test Purpose name	No mapping of PSTN XML ProgressIndicator 7 in 183 into ATP in the CPG				
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 183 Session				
	Progress, a CPG is sent and no Access Transport Parameter is present containing a				
	Progress Indicator #7				
ISUP Parameter values	CPG: Access Transport n	ot present			
SIP Parameter values	180:				
	<pre><?xml version="1.0" encod</pre></pre>	ing="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescrip	otion> 0000001 <			
	or				
	ProgressDescrip	otion>0000010<			
	100 BE LM "				
	183: P-Early-Media: sendonly				
	xml version="1.0" encoding="utf-8"?				
	PSTN Programme and the state of				
	ProgressIndicator				
	ProgressOctet4	ation > 00001114 <			
Comments	ProgressDescrip	DUON-0000111<			
	SIP-I	MGCF	SIP NNI		
Message flows					
	INVITE (IAM)		INVITE		
	180 Ringing	·	180 Ringing		
	(ACM - free)		100 Ci D		
	183 Session Progress €	←	183 Session Progress		
	(CPG)	Anniham and that are the	_		
		Apply post test routin	e		

	TD 004 045	In .	Tr. 1 70.4			
TP number	TP_204_015	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6			
TSS reference	SIP-I - SIP NNI/Basic call/	Sending_of_CPG in en	capsulated 18x message/			
Selection criteria	PICS 6.2.1/5 AND PICS 6	.2.1/9				
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 8 in 18	B into Event information in the CPG			
Test Purpose			ndicator value 8 in a 183 Session			
	Progress, a 183 Session F	Progress with encapsula	ated CPG is sent and Event information			
	parameter is set to 'In-ban	d information or approp	riate pattern is now available'			
ISUP Parameter values		CPG: Event information= In-band information or appropriate pattern is now available				
SIP Parameter values	183: P-Early-Media: sendonly					
	xml version="1.0" enco</th <th colspan="5"><?xml version="1.0" encoding="utf-8"?></th>	xml version="1.0" encoding="utf-8"?				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0001000<					
Comments	-					
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	180 Ringing (ACM)	-	← 180 Ringing			
	183 Session Progress	-	← 183 Session Progress			
	(CPG)		.			
	Apply post test routine					

TP number	TP_204_017	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6.1		
TSS reference	SIP-I - SIP NNI/Basic call/Se	nding_of_CPG in encapsulate	ed 18x message/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1	1/9			
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 1 in 180 into AT	P in the CPG		
Test Purpose	Ensure that on receipt of a Page 1	STN XML ProgressIndicator v	value 1 in a 180 Ringing, a 180		
	Ringing with encapsulated Cl	PG is sent and an Access Tra	ansport Parameter is present		
	containing a Progress Indicat	or #1			
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Desc	ription='0000001'			
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000001<				
Comments					
Message flows	SIP NNI	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ←	Ti/w1 expired → II	NVITE		
	(ACM - no indication)				
	180 Ringing (CPG) ←	← 1	180 Ringing		
		Apply post test routine	•		

TP number	TP_204_018	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6.1			
TSS reference	SIP-I - SIP NNI/Basic call/Sending of CPG in encapsulated 18x message/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 2 in 180 into ATP in the CPG					
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 2 in a 180 Ringing, a 180					
	Ringing with encapsulated CP containing a Progress Indicato	G is sent and an Access Trans r #2	port Parameter is present			
ISUP Parameter values	CPG: Access Transport					
	Progress Indicator					
	Progress Description='0000010'					
SIP Parameter values	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000010<					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	Ti/w1 started				
		Ti/w1 expired → INV	ITE			
	(ACM)	Z 400	Dinaina			
	180 Ringing (CPG) ← 180 Ringing					
		Apply post test routine				

TP number	TP_204_019	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.6			
TSS reference		.ll/Sending_of_CPG in er	capsulated 18x message/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML ProgressIndicator 4 in 180 into ATP in the CPG					
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 180 Ringing a 180					
		Ringing with encapsulated CPG is sent and an Access Transport Parameter is present				
	containing a Progress In					
ISUP Parameter values		CPG: Access Transport				
	Progress India					
		Description='0000100'				
SIP Parameter values	180:					
	xml version="1.0" enc</th <th>oding="utf-8"?></th> <th></th>	oding="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
		cription> 0000001 <				
		or				
	ProgressDescription>0000010<					
	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
		cription> 0000100 <				
Comments	1 Tegrecobesc	STIPHOTIF COCCIOC 1				
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	(,					
	183 Session Progress	←	← 183 Session Progress			
	(ACM)					
	180 Ringing (CPG)	←	← 180 Ringing			
		Apply post tes	5 5			
		Apply post tee	· · · · · · · · · · · · · · · · · · ·			

TP number	TP_204_020	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.6				
TSS reference	SIP-I - SIP NNI/Basic call/S	SIP-I - SIP NNI/Basic call/Sending of CPG in encapsulated 18x message/					
Selection criteria	PICS 6.2.1/5						
Test Purpose name	No mapping of PSTN XML	ProgressIndicator 7 in	180 into ATP in the CPG				
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 180 Ringing, a 180 Ringing with encapsulated CPG is sent and no Access Transport Parameter is present containing a Progress Indicator #7						
ISUP Parameter values	CPG: Access Transport n	CPG: Access Transport not present					
SIP Parameter values	183: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000111<						
Comments							
Message flows	SIP-I INVITE (IAM) 180 Ringing (ACM) 183 Session Progress (CPG)		SIP NNI → INVITE ← 180 Ringing ← 183 Session Progress				
		Apply post test	routine				

TP number	TP_204_021		Reference		[2], clause 7.2.3.2.6
TSS reference	SIP-I - SIP NNI/Basic call/Sending of CPG in encapsulated 18x message/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML ProgressIndicator 8 in 180 into Event information in the CPG				
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 8 in a 180 Ringing, a 180				
	Ringing with encapsulat	ed Cl	PG is sent and Eve	nt inforn	nation parameter is set to 'In-band
	information or appropria	ite pa	ttern is now availab	le'	
ISUP Parameter values	CPG: Event information	n= In-	-band information o	r approp	oriate pattern is now available
SIP Parameter values	183:				
	<pre><?xml version="1.0" encoding="utf-6"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDes	cription	on> 0001000 <		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	→	Ti/w1 started		
	183 Session Progress (ACM)	←	Ti/w1 expired	→	INVITE
	180 Ringing (CPG)	←		←	180 Ringing
	Apply post test routine				

TP number	TP_204_023		Reference		[1], clause 7.3.1
					[2], clause 7.2.3.2.7
TSS reference	SIP-I - SIP NNI/Basic call/	/Send	ing_of_CPG in e	encapsul	ated 18x message/
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Media	a head	der into Event inf	ormation	n parameter in CPG
Test Purpose	Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is present authorizing early media, a 183 Session Progress with encapsulated CPG is sent. The Event information parameter is set to 'In-band information or appropriate pattern is now available'				
ISUP Parameter values	CPG: Event information=	In-ba	and information o	or approp	oriate pattern is now available
SIP Parameter values	183: P-Early-Media: ser	ndonly	/		•
Comments					
Message flows	SIP-I		MGCF		SIP NNI
_	INVITE (IAM)	→ T	ī/w1 started		
	183 Session Progress (ACM)	(- T	ī/w1 expired	→	INVITE
	183 Session Progress (CPG)	←		←	183 Session Progress
	Apply post test routine				ne

TP number	TP_204_024	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.7.4		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_CPG in encapsulat	ed 18x message/		
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name	180 received, coding of Backw	ard call indicator in CPG TN	MR speech or 3,1 kHz audio		
Test Purpose	IAM with Transmission Mediur				
	sent and the Backward call inc		Ringing with encapsulated CPG is		
		•	values.		
	Charge indicator = charge Called party's status india				
		ator = subscriber free (01)			
		dicator = no indication (00)	Lavailable (00)		
		tor = no end-to-end method	` ,		
		terworking encountered (1)			
		dicator = no end-to-end info			
		cator = ISDN user part not u			
	ISDN access indicator = terminating access non-ISDN (0)				
ICUD Devementes values	Echo control device indicator = incoming echo control device included (1) Transmission Medium Remains and indicator = and and an analysis of the second s				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz ACM: Backward call indicator				
SIP Parameter values	Called party's status indicator = no indication				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
message nows	INVITE (IAM) →	Ti/w1 started	On Man		
	1 (V (V)	11/W 1 Started			
	183 Session Progress ← (ACM)	Ti/w1 expired → I	NVITE		
	180 Ringing (CPG) ←	← 1	180 Ringing		
		Apply post test routine	5 5		

TP number	TP_204_025	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.7.4			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_CPG in encapsula	ted 18x message/			
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18				
Test Purpose name	180 received, coding of Backw					
Test Purpose	IAM with Transmission Mediun					
			Ringing with encapsulated CPG is			
	sent and the Backward call ind		g values:			
	 Charge indicator = charge 					
	Called party's status indicate					
	 Called party's category inc 					
		tor = no end-to-end metho				
		terworking encountered (1)				
		dicator = no end-to-end info				
		ator = ISDN user part not i				
	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					
OID D	Called party's status indicator = no indication					
SIP Parameter values						
Comments	CID CID I	MOCE	CID NINII			
Message flows	SIP SIP-I MGCF SIP NNI					
	INVITE (IAM) → Ti/w1 started					
	183 Session Progress ←	Ti/w1 expired →	INVITE			
	(ACM)	II/WI CAPIICG	114 V 1 1 L			
	180 Ringing (CPG) ←	←	180 Ringing			
	Apply post test routine					
L		Apply poor tool louting				

TP number	TP_204_026	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.7.4		
TSS reference	SIP-I - SIP NNI/Basic call/Ser	ding_of_CPG in encapsula	ated 18x message/		
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1	/18			
Test Purpose name	180 received, coding of Backy	vard call indicator in CPG T	TMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transmission Mediu	m Requirement indicator=6	34 kBit/s unrestricted received		
			Ringing with encapsulated CPG is		
	sent and the Backward call in	dicator is set to the followin	g values:		
	 Charge indicator = charge 	e (10)			
	 Called party's status indic 	ator = subscriber free (01)			
	 Called party's category in 	dicator = no indication (00)			
	 End-to-end method indicate 	ator = no end-to-end metho	d available (00)		
	 Interworking indicator = n 	o interworking encounter	red (0)		
	 End-to-end information in 	dicator = no end-to-end inf	ormation available (0)		
	 ISDN user part/BICC indi 	cator = ISDN user part us	ed 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					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ←	Ti/w1 expired →	INVITE		
	(ACM)	TI, WT CAPITCU 2	HAA11		
	180 Ringing (CPG) ←	←	180 Ringing		
		Apply post test routin	e		

TP number	TP_204_027	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.7.4			
TSS reference	SIP-I - SIP NNI/Basic call/Sen	SIP-I - SIP NNI/Basic call/Sending_of_CPG in encapsulated 18x message/				
Selection criteria						
Test Purpose name	180 received, coding of Backw					
Test Purpose		IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer				
	Compatibility = Facsimile Grou					
		encapsulated CPG is sent a	and the Backward call indicator is			
	set to the following values:					
	Charge indicator = charge					
		ator = subscriber free (01)				
		dicator = no indication (00)				
		itor = no end-to-end method	` ,			
		terworking encountered (1)				
		dicator = no end-to-end info				
	 ISDN user part/BICC indicates 	cator = ISDN user part not ເ	ised all the way (0)			
	 ISDN access indicator = t 	ISDN access indicator = terminating access non-ISDN (0)				
	 Echo control device indica 	ator = incoming echo cont	rol 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 statu	s indicator = no indication				
SIP Parameter values						
Comments	2.2.		212 11111			
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) → Ti/w1 started					
	183 Session Progress 🗲	Ti/w1 expired → I	NVITE			
	(ACM)					
	180 Ringing (CPG) ← 180 Ringing					
	Apply post test routine					

6.1.2.5 Sending of the Answer Message (ANM)

TP number	TP_205_001	I	Reference	[1], clause 7.3.1	
	0.5 1 0.5 1.11.11			[2], clause 7.2.3.2.8	
TSS reference	SIP-I - SIP NNI/Basic o	call/200 O	K INVITE with encapsu	lated ANM /	
Selection criteria					
Test Purpose name	Sending of ANM when	200 OK I	NVITE was received		
Test Purpose	Ensure that upon recei	ipt of the f	first 200 OK (INVITE), if	the Address Complete Message	
-	(ACM) has already been	en sent, th	ne SUT sends the Answ	er Message (ANM)	
ISUP Parameter values					
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
_	INVITE (IAM)	→	→	INVITE	
	, ,		←	100 Trying	
	180 Ringing (ACM)	←	←	180 Ringing	
	200 OK (INVITE) (ANM)	←	←	200 OK (INVITE)	
	ÀCK	→	→	ACK	
	Apply post test routine				

TP number	TP 205 002	Reference	[1], clause 7.3.1		
IF Hulliber	17_203_002	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.8		
TSS reference	SIP-I - SIP NNI/Basic call/200	OK INVITE with opensulate			
133 reference	encapsulated ANM /	OK INVITE Will elicapsulate	d ANN 200 OK INVITE WILL		
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name		ackward call indicator in ANM	TMR speech or 3,1 kHz audio		
Test Purpose			Requirement indicator=speech		
Test i dipose			/ITE final response, a 200 OK		
	INVITE with encapsulated AN				
	following values:	Wild don't and the Backward o	an maioator io oot to the		
	 Charge indicator = charge 	e (10)			
	Called party's status indic				
		dicator = no indication (00)			
		ator = no end-to-end method a	available (00)		
		terworking encountered (1)	()		
		dicator = no end-to-end inforr	nation available (0)		
		cator = ISDN user part not us	` ,		
	·	erminating access non-ISDN	• • •		
		ator = Incoming echo control			
ISUP Parameter values	IAM: Transmission Medium				
	ACM: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendon	ly			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
		Ti/w1 expired → IN	VITE		
	(ACM)				
		← 18	33 Session Progress		
	200 OK (INVITE) ←	← 20	00 OK (INVITE)		
	(ANM)		214		
	ACK →		CK		
		Apply post test routine			

TP number	TP_205_003	Reference	[1], clause 7.3.1			
TSS reference	SIP-I - SIP NNI/Basic call/200	OK INVITE with encapsu	[2], clause 7.2.3.2.8			
Selection criteria	PICS 6.2.4/2 AND NOT PICS		diated AINW/			
Test Purpose name			NM TMP 64 kRit/s uprestricted			
Test Purpose	200 OK received, coding of Backward call indicator in ANM TMR 64 kBit/s unrestricted INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 200 OK INVITE final response, an 200 OK INVITE with encapsulated ANM is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = no indication (00) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = Incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium ACM: Backward call indicator Called party's statu					
SIP Parameter values	183: P-Early-Media: sendonly					
Comments						
Message flows	SIP-I INVITE (IAM) →	MGCF Ti/w1 started	SIP NNI			
	183 Session Progress ← (ACM)	Ti/w1 expired →	INVITE			
	← 183 Session Progress					
	200 OK ← 200 OK (INVITE) (INVITE)					
	ACK →	→ Apply post test routi	ACK ine			

TP number	TP_205_004	Reference	[1], clause 7.3.1			
		<u> </u>	[2], clause 7.2.3.2.8			
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1/	• •				
Test Purpose name	200 OK received, coding of Ba					
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 200 OK INVITE final response, an 200 OK INVITE with encapsulated 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 = te 	erminating access ISDN ((1)			
	 Echo control device indica 	tor = Incoming echo contro	ol device not included (0)			
ISUP Parameter values	ACM: Backward call indicator	Requirement indicator=64 I s indicator = no indication	kBit/s unrestricted			
SIP Parameter values	183: P-Early-Media: sendonl	у				
Comments						
Message flows	(" "")	MGCF Ti/w1 started	SIP NNI INVITE			
	Session Progress ← (ACM)					
	← 183 Session Progress					
	200 OK (INVITE) ← (ANM)	+	200 OK (INVITE)			
	ACK →	→	ACK			
		Apply post test routing	e			

TP number	TP_205_005	Reference	[1], clause 7.3.1		
TSS reference	SIP-I - SIP NNI/Basic call/200	 OK INVITE with encapsul	[2], clause 7.2.3.2.8		
Selection criteria	PICS 6.2.1/9	OK INVITE With encapsul	ateu Aivivi /		
Test Purpose name		ackward call indicator in A	NM HLC "Facsimile Group 2/3"		
Test Purpose					
Test r ui pose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer Compatibility = Facsimile Group 2/3 received. Ensure that on receipt of a 200 OK INVITE final response, a 200 OK INVITE with encapsulated ANM is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = no indication (00) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = Incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz High Layer Compatibility = Facsimile Group 2/3 ACM: Backward call indicator				
SIP Parameter values	Called party's status indicator = no indication 183: P-Early-Media: sendonly				
Comments	100. 1 -Larry-Mcdia. 3chdol	ııy			
Message flows	SIP-I INVITE (IAM) →	MGCF Ti/w1 started	SIP NNI		
	Session Progress ← (ACM)	Ti/w1 expired →	INVITE		
	,	←	183 Session Progress		
	200 OK (INVITE) ← (ANM)	←	200 OK (INVITE)		
	ACK →	→ Apply post test routi	ACK ne		

TP number	TP_205_006	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.9.2
TSS reference	SIP-I - SIP NNI/Basic call/200	OK INVITE with encapsu	lated ANM /
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 1 in 200 OK i	nto ATP in the ANM
Test Purpose			or value 1 in a 200 OK INVITE, an
	ANM is sent and an Access T	ransport Parameter is pre	sent containing a Progress
	Indicator #1		
ISUP Parameter values	ANM: Access Transport		
	Progress Indicator		
		iption='0000001'	
SIP Parameter values	200 OK:		
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>	
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescriptio	n> 0000001 <	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
		←	100 Trying
	180 Ringing ←	←	180 Ringing
	(ACM - free)		
	200 OK (INVITE)	←	200 OK (INVITE)
	ANM		
	ACK →	→	ACK
		Apply post test routi	ine

TP number	TP_205_007	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.9.2			
TSS reference	SIP-I - SIP NNI/Basic call/2	200 OK INVITE with encaps	sulated ANM /			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 2 in 200 OK	into ATP in the ANM			
Test Purpose	Ensure that on receipt of a	PSTN XML ProgressIndica	tor value 2 in a 200 OK INVITE, a			
			n Access Transport Parameter is			
	present containing a Progr	ess Indicator #2				
ISUP Parameter values	ANM: Access Transport					
	Progress Indica	or				
	Progress De	scription='0000010'				
SIP Parameter values	200 OK:					
	xml version="1.0" encod</th <th>ing="utf-8"?></th> <th></th>	ing="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescri	otion>0000010<				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	·	INVITE			
		-	100 Trying			
	180 Ringing (ACM) €	·	180 Ringing			
	200 OK (INVITE) ← 200 OK (INVITE)					
	(ANM)	_				
	ACK → ACK					
		Apply post test rou	tine			

TP number	TP 205 008	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.9.2	
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML ProgressIndicator 4 in 200 OK into ATP in the ANM			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in a 200 OK INVITE, a			
	200 OK INVITE with encapsulated ANM is sent and an Access Transport Parameter is			
	present containing a Progress Indicator #4			
ISUP Parameter values	ANM: Access Transport			
	Progress Indicator			
	Progress Description='0000100'			
SIP Parameter values	200 OK:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000100<			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→		
		←	100 Trying	
	180 Ringing (ACM) ←	+	180 Ringing	
	200 OK (INVITE)	←	200 OK (INVITE)	
	(ANM)			
	ACK →	→	ACK	
		Apply post test routine		

TP number	TP_205_009	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.9.2			
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 5 in 200 OK i	nto ATP in the ANM			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 5 in a 200 OK INVITE, a					
	200 OK INVITE with encapsulated ANM is sent and an Access Transport Parameter is					
	present containing a Progress Indicator #5					
ISUP Parameter values	IAM: USI=speech or 3,1 kHz					
		ed, TMR prime = speech o	or 3,1 kHz audio			
	ANM: Access Transport					
	Progress Indicator					
	Progress Description='0000101'					
SIP Parameter values	200 OK:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000101<					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
		←	100 Trying			
	180 Ringing (ACM) ← 180 Ringing					
	200 OK (INVITE) ← (ANM)	←	200 OK (INVITE)			
	ACK → → ACK					
	Apply post test routine					

TP number	TP 205 010	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.9.2			
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	No mapping of PSTN XML ProgressIndicator 7 in 200 OK into ATP in the ANM					
Test Purpose			or value 7 in a 200 OK INVITE, a			
	200 OK INVITE with encapsulated ANM is sent and no Access Transport Parameter is					
	present containing a Progress Indicator #7. The Backward call indicator is set to the					
	following values:					
	ISDN User Part indicator					
	ISDN User Part used	all the way				
	ISDN access indicator	201				
	Terminating access IS	SDN				
	Interworking indicator	untarad				
ISUP Parameter values	no interworking enco					
150P Parameter values	ANM: Access Transport not present Backward call indicator					
	ISDN User Part indi					
		used all the way				
	ISDN access indica					
	Terminating ac					
	Interworking indicat					
	no interworking encountered					
SIP Parameter values	200 OK:					
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n> 0000111 <				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
	1	(100 Trying			
	180 Ringing (←	←	180 Ringing			
	(ACM - free)					
	000 OK (INI) (ITE)	,	000 01/ (INI) (ITE)			
	200 OK (INVITE) ←	+	200 OK (INVITE)			
	(ANM)	•	ACK			
	ACK → Ack					
	_1	Apply post test routi	ne			

TP number	TP_205_011	Refere	nce	[1], clause 7.3.1		
				[2], clause 7.2.3.2.9.2		
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML HighLayerCompatibility in 200 OK into ATP in ANM					
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML HighLayerCompatibility					
				ANM is sent and an Access		
	Transport Parameter is present containing a High layer compatibility IE and the value is set					
	to the value HLC_VA as indicated in table 6.1.2.5-1					
ISUP Parameter values	ANM: Access Transpo					
	High layer co					
		er characteristic	s identification =	HLC_VA		
SIP Parameter values	200 OK:					
	PSTN XML MIME body					
	xml version="1.0" en</th <th>icoaing= uti-8 ?</th> <th>></th> <th></th>	icoaing= uti-8 ?	>			
		sility				
	HighLayerCompatibility HLOctet3					
	CodingStandard>00<					
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4	inioniog or				
	HighLayerCharacteristics> HLC_VA <					
Comments			_			
Message flows	SIP-I	М	GCF	SIP NNI		
_	INVITE (IAM)	→	→	INVITE		
	, ,		←	100 Trying		
	180 Ringing ← 180 Ringing					
	(ACM)					
	200 OK (INVITE)	←	←	200 OK (INVITE)		
	(ANM)					
	ACK	→	→	ACK		
		Appl	y post test routi	ne		

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	Re	eference	[1], clause 7.3.1		
				[2], clause 7.2.3.2.9.2		
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML BearerCapability in 200 OK into ATP in ANM					
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML BearerCapability element is					
		present, a 200 OK INVITE with encapsulated ANM 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		_			
ISUP Parameter values				stricted digital info with T/A,		
			MR prime = speech	or 3,1 kHz audio		
	ANM: Access Transp					
	Bearer Cap					
	Informa	tion Transfe	r Capability = ITC_v a	alue		
SIP Parameter values	200 OK:					
	xml version="1.0" e</th <th>ncoaing="ut</th> <th>T-8"'?></th> <th></th>	ncoaing="ut	T-8"'?>			
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability> ITC_value <					
	BCoctet4 TransferMo	do>00<				
		TransferRat	o>10000/			
Comments	IIIIOIIIIatioii	Hansieritai	6/10000			
Message flows	SIP-I		MGCF	SIP NNI		
meedage neme	INVITE (IAM)	→	→	INVITE		
		-	-	100 Trying		
	180 Ringing (ACM)	←	÷	180 Ringing		
	Too runging (7 tow)	•	•	100 Kinging		
	200 OK (INVITE)	←	+	200 OK (INVITE)		
	(ANM)	•	•	200 011 (111112)		
	ACK	→	→	ACK		
	Apply post test routine					

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	[1], clause 7.3.1		
			[2], clause 7.2.3.2.9.3		
TSS reference	SIP-I - SIP NNI/Basic call/200 OK INVITE with encapsulated ANM /				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Bearer				
Test Purpose	Ensure that on receipt of a PSTN XML BearerCapability element in a 200 OK INVITE a				
	Transmission Medium Used parameter is present in the sent 200 OK INVITE with				
	encapsulated ANM message. The value of the PSTN XML InformationTransferCapability				
	value TMU_VA_BC is mapped		sion Medium Used parameter		
	TMU_VA_TMU as described in				
ISUP Parameter values	IAM: USI=speech or 3,1 kHz				
	· · · · · · · · · · · · · · · · · · ·	d, TMR prime = speech or 3,1	kHz audio		
	ANM: TMU:				
CID Devementes values	TMU_VA_TMU				
SIP Parameter values	200 OK:				
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability> TMU_VA_BC <				
	information Transfer Capability Time_TA_BO				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	>	→ INVITE		
	, ,	•	← 100 Trying		
	180 Ringing (ACM - free) ← 180 Ringing				
	200 OK (INVITE) (ANM)				
	ACK → ACK				
		Apply post test routine			

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

TMU_VA	PSTN XML BearerCapability TMU_VA_BC	TMU value TMU_VA_TMU		
TMU_VA_01	'00000'	'speech'		
TMU_VA_02	'10000'	'3,1 kHz audio'		
TMU_VA_03	'10001'	No mapping (see note 1)		
TMU_VA_04	Not present (see note 2)	'3,1 kHz audio'		
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 200 OK (INVITE) with encapsulated Connect message (CON)

TP number	TP 206 001	Refere	nce	[1], clause 7.3.1
				[2], clause 7.2.3.2.11
TSS reference	SIP-I - SIP NNI/Basic call	/Sending_of_	200_OK_INVITE	_with_encapsulated CON/
Selection criteria				
Test Purpose name	Sending of CON message	e after 200 O	K was received	
Test Purpose	Ensure that on receipt of encapsulated CON mess		/ITE and no ACN	/I was sent, a 200 OK INVITE with
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP-I	M	GCF	SIP NNI
	INVITE (IAM)	→	→	INVITE
	, ,		(100 Trying
	200 OK (INVITE) (CON)	←	(200 OK (INVITE)
	ACK ` ´`	→	→	ACK
	Apply post test routine			

TP number	TP_206_002	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.11.1			
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/					
Selection criteria	NOT PICS 6.2.1/18					
Test Purpose name	200 OK received, coding of Backward call indicator in CON TMR speech or 3,1 kHz audio					
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received Ensure					
	that on receipt of a 200 OK INVITE final response, a 200 OK INVITE with encapsulated					
	CON is sent and the Backward	d call indicator is set to the fo	ollowing values:			
	 Charge indicator = charge 	e (10)				
	 Called party's status indic 	ator = no indication (00)				
	 Called party's category in 	dicator = no indication (00)				
	 End-to-end method indicate 	tor = 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	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→ II	NVITE			
		← 1	00 Trying			
	200 OK (INVITE)CON ←	← 2	00 OK (INVITE)			
	ACK →	→ A	CK (
		Apply post test routine				

TP number	TP 206 003	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.11.1			
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/					
Selection criteria	PICS 6.2.4/2 AND NOT PICS 6	PICS 6.2.4/2 AND NOT PICS 6.2.1/18				
Test Purpose name	200 OK received, coding of Backward call indicator in CON TMR 64 kBit/s unrestricted					
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received Ensure that on receipt of a 200 OK INVITE final response, a 200 OK INVITE with encapsulated 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		tor = Incoming echo control				
150P 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	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	← 100	/ITE D Trying			
	200 OK (INVITE)CON ←		OK (INVITE)			
	ACK → Ack					
	1	Apply post test routine				

TP number	TP_206_004	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.11.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/				
Selection criteria	PICS 6.2.4/2 AND 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, a 200 OK INVITE with				
	encapsulated CON is sent ar	d the Backward call indica	tor is set to the following values:		
	 Charge indicator = charge 	e (10)			
	 Called party's status indi 	cator = no indication (00)			
		ndicator = no indication (00			
	 End-to-end method indic 	ator = no end-to-end meth	od 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	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	200 OK (INVITE) CON ←	←	200 OK (INVITE)		
	ACK →	→	ACK		
		Apply post test routi	ne		

TP number	TP_206_005	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11.1	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/			
Selection criteria	-	<u> </u>		
Test Purpose name	200 OK received, coding of Ba	ckward call indicator in C	ON HLC "Facsimile Group 2/3"	
Test Purpose	IAM with Transmission Mediun			
	Compatibility = Facsimile Grou	p 2/3 received. Ensure th	at on receipt of a 200 OK INVITE	
	final response, a 200 OK INVIT	E with encapsulated COI	N is sent and the Backward call	
	indicator is set to the following			
	 Charge indicator = charge 			
	 Called party's status indicate 			
	 Called party's category inc 			
	 End-to-end method indica 	tor = no end-to-end metho	od available (00)	
	 Interworking indicator = inf 	terworking encountered (1	1)	
	 End-to-end information inc 	licator = no end-to-end in	formation available (0)	
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)			
	ISDN access indicator = terminating access non-ISDN (0)			
	Echo control device indicator = Incoming echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz			
	High Layer Compatibility = Facsimile Group 2/3			
	CON: Backward call indicator			
	Called party's status indicator = no indication			
SIP Parameter values				
Comments			2.5	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
	000 014 (INI) (ITE) 00N 5	+	100 Trying	
	200 OK (INVITE) CON +	←	200 OK (INVITE)	
	ACK →	-	ACK	
		Apply post test routing	ne	

TP number	TP 206 006	Reference		[1], clause 7.3.1	
				[2], clause 7.2.3.2.11.2	
TSS reference	SIP-I - SIP NNI/Basic cal	I/Sending_of_200_OK	_INVITE_witl	n_encapsulated CON/	
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML P	rogressIndicator 1 in 2	200 OK into A	TP in the CON	
Test Purpose	Ensure that on receipt of	a PSTN XML Progres	sIndicator va	ue 1 in a 200 OK INVITE, a	
			and an Acce	ss Transport Parameter is	
	present containing a Prog				
ISUP Parameter values	CON: Access Transport				
	Progress Indic				
		Description='0000001'			
SIP Parameter values	200 OK:				
	xml version="1.0" encorporation="1.0"</p	oding="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDesc	ription> 0000001 <			
Comments					
Message flows	SIP-I	MGCF		SIP NNI	
	INVITE (IAM)	→	→ IN\	/ITE	
			← 100) Trying	
	200 OK (INVITE) CON	←	← 200	OK (INVITE)	
	ACK	→	→ AC	K	
		Apply post test routine			

TD mumb on	TD 200 007	Deference	[4] alausa 7.0.4			
TP number	TP_206_007	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.11.2			
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_200_OK_INVITE	_with_encapsulated CON/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 2 in 200 OK in	nto ATP in the CON			
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicate	or value 2 in a 200 OK INVITE, a			
	200 OK INVITE with encapsula	ated CON is sent and an	Access Transport Parameter is			
	present containing a Progress	Indicator #2	•			
ISUP Parameter values	CON: Access Transport					
	Progress Indicator					
	Progress Descri	ption='0000010'				
SIP Parameter values	200 OK:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator	ProgressIndicator				
	ProgressOctet4					
	ProgressDescription	n> 0000010 <				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
	, ,	+	100 Trying			
	200 OK (INVITE) (CON) ←	←	200 OK (INVITE)			
		→	ACK			
	Apply post test routine					

TP number	TP_206_008	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11.2	
TSS reference	SIP-I - SIP NNI/Basic call/	Sending_of_200_Ok	<_INVITE_with_encapsulated CON/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 4 in	200 OK into ATP in the CON	
Test Purpose	Ensure that on receipt of a	a PSTN XML Progres	ssIndicator value 4 in a 200 OK INVITE, a	
			t and an Access Transport Parameter is	
	present containing a Prog	ress Indicator #4		
ISUP Parameter values	CON: Access Transport			
	Progress Indica	ator		
	Progress De	escription='0000100'		
SIP Parameter values	200 OK:			
	xml version="1.0" enco</th <th>ding="utf-8"?></th> <th></th>	ding="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescr	iption> 0000100 <		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
			100 Trying	
	200 OK (INVITE)(CON)	-	← 200 OK (INVITE)	
	ACK	→	→ ACK	
		Apply post to	est routine	

TP number	TD 206 000	Deference	[11] alauga 7.2.4		
1P number	TP_206_009	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_200_OK_INVITE_w	/ith_encapsulated CON/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 5 in 200 OK into	ATP in the CON		
Test Purpose	Ensure that on receipt of a PST	TN XML ProgressIndicator v	alue 5 in a 200 OK INVITE, a		
-	200 OK INVITE with encapsula				
	present containing a Progress		•		
ISUP Parameter values		audio, USI prime=unrestric	ted digital info with T/A.		
		d, TMR prime = speech or 3			
	CON: Access Transport	.,р	,,		
	Progress Indicator				
		otion='0000101'			
SIP Parameter values	Progress Description='0000101'				
On Tarameter values	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN	· uti-o :>			
	ProgressIndicator				
	ProgressOctet4	. 0000404			
	ProgressDescription	>0000101<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	NVITE		
		← 1	00 Trying		
	200 OK (INVITE) (CON) ←	← 2	00 OK (INVITE)		
	ACK →		ick `		
		Apply post test routine			

TP number	TP 206 010	Reference	[1], clause 7.3.1			
I i iidilibei	11 _200_010		[2], clause 7.2.3.2.11.2			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 200 OK INVITE with				
Selection criteria	PICS 6.2.1/5	ing_oi_200_OK_iNVITE_with	_ericapsulated CON/			
			- ATD : th CON			
Test Purpose name	No mapping of PSTN XML Pro					
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 7 in a 200 OK INVITE, a					
		200 OK INVITE with encapsulated CON is sent and no Access Transport Parameter is				
	present containing a Progress	Indicator #7. The Backward ca	all indicator is set to the			
	following values:					
	ISDN User Part indicator					
	ISDN User Part used a	II the way				
	ISDN access indicator					
	Terminating access no	on-ISDN				
	Interworking indicator	_				
	no interworking encou					
ISUP Parameter values	CON: Access Transport not present					
	Backward call indicator					
	ISDN User Part indic					
	ISDN User Part used all the way					
	ISDN access indicator					
	Terminating access non-ISDN					
	Interworking indicator					
	no interworking	encountered				
SIP Parameter values	200 OK:					
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>0000111<				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→ INV	'ITE			
		← 100	Trying			
	200 OK (INVITE) (CON) ←	← 200	OK (INVITE)			
	ACK →	→ ACI	<			
	Apply post test routine					

TP number	TP_206_011	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic call/Send	<u>ling_of_200_OK_INVITE_</u>	with_encapsulated CON/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML HighLa				
Test Purpose	Ensure that on receipt of 200 C				
	element is present a 200 OK IN				
			ompatibility IE and the value is set		
	to the value HLC_VA as indicate	ted in table 6.1.2.5-1			
ISUP Parameter values	CON: Access Transport				
	High layer compatib	ility			
	High layer chara	cteristics identification = H	LC_VA		
SIP Parameter values	200 OK:				
	PSTN XML MIME body				
	xml version="1.0" encoding=</th <th>"utf-8"?></th> <th></th>	"utf-8"?>			
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacter	istics>HLC_VA<			
Comments					
Message flows	SIP-I	MGCF	IP NNIP		
	INVITE (IAM) → INVITE				
		←	100 Trying		
	200 OK (INVITE) (CON) ←	←	200 OK (INVITE)		
	ACK →	→	ACK		
		Apply post test routing	e		

TP number	TP 206 012	Reference	[1], clause 7.3.1			
I F Humber	11 _200_012	Kelefelice	[2], clause 7.2.3.2.11.2			
TSS reference	CID I CID NNI/Pagia agii/Car	ding of 200 OK INIVITE				
	SIP-I - SIP NNI/Basic call/Ser	iding_oi_200_OK_INVITE	_witin_encapsulated CON/			
Selection criteria	PICS 6.2.1/5		ATT			
Test Purpose name	Mapping of PSTN XML Beare					
Test Purpose			ML BearerCapability element is			
	present, a 200 OK INVITE wit					
			and the value is set to the value			
	ITC_value as indicated in tabl	e 6.1.2.5-1				
ISUP Parameter values	CON: Access Transport					
	Bearer Capability					
	Information Tra	nsfer Capability = ITC_val	ue			
SIP Parameter values	200 OK:					
	xml version="1.0" encoding</p	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>0	CodingStandard>00<				
	InformationTransferCapability> ITC_value <					
	BCoctet4					
	TransferMode>00<					
	InformationTransfe	rRate>10000<				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
	_ (,	+	100 Trying			
	200 OK (INVITE) (CON) ←	<u>-</u>	200 OK (INVITE)			
	ACK →	· •	ACK			
	1,1511					
	Apply post test routine					

TP number	TP_206_013	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11	
TSS reference	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated 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			
			L InformationTransferCapability	
			smission Medium Used parameter	
	TMU_VA_TMU as described in			
ISUP Parameter values	IAM: USI=speech or 3,1 kHz			
		d, TMR prime = speech or	3,1 kHz audio	
	CON: TMU:			
	TMU_VA_TMU			
SIP Parameter values	200 OK:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability> TMU_VA_BC <			
Comments				
Comments	CID I	MOOF	CID MAII	
Message flows	SIP-I MGCF SIP NNI INVITE (IAM) → INVITE			
	INVITE (IAM) →			
	200 OK (INIVITE) (CON)		100 Trying	
	200 OK (INVITE) (CON)		200 OK (INVITE)	
	ACK →		ACK	
		Apply post test routing	e	

TP number	TP 206 014	Reference		[1], clause 7.3.1	
				[2], clause 7.2.3.2.11A	
TSS reference	SIP-I - SIP NNI/Basic call,	Sending of 200 OK IN	/ITE w	rith encapsulated CON/	
Selection criteria	PICS 6.2.1/19				
Test Purpose name	Receipt of a reINVITE rec	uest			
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: <medi< th=""><th>a resource URL></th><th></th><th></th></medi<>	a resource URL>			
Comments					
Message flows	SIP-I	MGCF		SIP NNI	
	INVITE (IAM)	→	→	INVITE1	
	180 Ringing (ACM free)	←	←	180 Ringing	
	200 OK INVITE (ANM)	←	←	200 OK INVITE	
	ACK	→	→	ACK	
	INVITE	←	←	INVITE	
	200 OK INVITE2	→	→	200 OK INVITE2	
	ACK	←	←	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	[1], clause 7.3.2 [2], clause 7.2.3.2.12			
T00 ([[2], clause 7.2.3.2.12			
TSS reference	SIP-I - SIP NNI/Basic call/Re	ceipt_of_4xx-5xx-6xx/				
Selection criteria						
Test Purpose name	Mapping of unsuccessful fina	Il responses to ISUP/BICC	Release messages			
Test Purpose	dialogue is established and r encapsulated Release mess the connection. The mapping according the table 6.1.2.7-1 beyond interworking point'. T	Ensure that on receipt of an unsuccessful final response SIP_Response before an early dialogue is established and no Reason header is contained, a SIP_Response with encapsulated Release message Cause value REL_cause is sent on the ISUP/BICC leg of the connection. The mapping of the SIP_Response code into the REL Cause value is according the table 6.1.2.7-1. The location value in the REL message is set to 'network beyond interworking point'. The value of the SIP-I_Response code is derived from the encapsulated REL Cause value according table 6.1.2.7-1				
ISUP Parameter values	REL: Cause = REL_cause					
SIP Parameter values	SIP_Response					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) → SIP-I_Response (REL) ← ACK (RLC) →	→ + + →	INVITE 100 Trying SIP_Response ACK			

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

SIP_Resp onse_VA	SIP-I_Response	←REL (cause code) REL_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	400 Bad Request	Cause value No 111 (Protocol error, unspecified)	400 Bad Request
VA_02	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	401 Unauthorized
VA_03	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	402 Payment Required
VA_04	501 Not Implemented	Cause value No 79 (Service or option not implemented, unspecified)	403 Forbidden
VA_05	404 Not Found	Cause value No 1 (Unallocated (unassigned) number)	404 Not Found
VA_06	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	405 Method Not Allowed
VA_07	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	406 Not Acceptable
VA_08	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	407 Proxy authentication required
VA_09	504 Server timeout	Cause value No 102 (Recovery on timer expiry)	408 Request Timeout
VA 10	410 Gone	Cause value No 22 (Number changed)	410 Gone
VA_11	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	413 Request Entity too long
VA_12	400 Bad Request	Cause value No 111 (Protocol error, unspecified)	414 Request-URI too long
VA_13	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	415 Unsupported Media type
VA_14	400 Bad Request	Cause value No 111 (Protocol error, unspecified)	416 Unsupported URI scheme
VA_15	501 Not Implemented	Cause value No 79 (Service or option not implemented, unspecified)	417 Unknown Resource-Priority
VA_16	400 Bad Request	Cause value No 111 (Protocol error, unspecified)	420 Bad Extension
VA_17	400 Bad Request	Cause value No 111 (Protocol error, unspecified)	421 Extension required
VA_18	480 Temporarily unavailable	Cause value No 31 (Normal, unspecified)	422 Session Interval Too Small
VA_19	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	423 Interval Too Brief

SIP_Resp onse_VA	SIP-I_Response	←REL (cause code) REL_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_20	433 Anonymity Disallowed	Cause value No 24 (Call rejected due to feature at the destination)	433 Anonymity Disallowed.
VA_21	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	480 Temporarily Unavailable
VA_22	408 Request Timeout IF "ICS call" (see note) ELSE 480 Temporarily unavailable	Cause value No 20 (Subscriber absent)	440 Max-Breadth Exceeded
VA_23	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	481 Call/Transaction does not exist
VA_24	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	482 Loop detected
VA_25	483 Too Many Hops	Cause value No 25 (Exchange routing error)	483 Too many hops
VA_26	484 Address Incomplete	Cause value No 28 (Invalid number format (address incomplete))	484 Address Incomplete
VA_27	404 Not Found	Cause value No 1 (Unallocated (unassigned) number)	485 Ambiguous
VA_28	486 Busy Here	Cause value No 17 (User busy)	486 Busy Here
VA_29	500 Server Internal error	Cause value No 127 (Interworking, unspecified) or not interworked. (NOTE 2)	487 Request terminated
VA_30	488 Not acceptable here	Cause value No 50 (Requested facility not subscribed)	488 Not acceptable here
VA_31	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	493 Undecipherable
VA_32	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	500 Server Internal error
VA_33	501 Not Implemented	Cause value No 79 (Service or option not implemented, unspecified)	501 Not implemented
VA_34	502 Bad Gateway	Cause value No 27 (Destination out of order)	502 Bad Gateway
VA_35	503 Service Unavailable	Cause value No 41 (Temporary failure)	503 Service Unavailable
VA_36	504 Server timeout	Cause value No 102 (Recovery on timer expiry)	504 Server timeout
VA_37	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	505 Version not supported
VA_38	513 Message too large	Cause value No 95 (Invalid message, unspecified)	513 Message too large
VA_39	500 Server Internal error	Cause value No 127 (Interworking, unspecified)	580 Precondition failure
VA 40	486 Busy Here	Cause value No 17 (User busy)	600 Busy Everywhere
VA 41	403 Forbidden	Cause value No 21 (Call rejected)	603 Decline
VA_42	604 Does not exist anywhere	Cause value No 2 (No route to specified transit network)	604 Does not exist anywhere
VA_43	606 Not Acceptable	Cause value No 88 (Incompatible destination)	606 Not acceptable
NOTE: TI	he I-MGCF identifies a call as an	"ICS call" as specified in clause 7.2.3.1.2.	.12 of ETSI TS 129 163 [2].

TP number	TP_207_002	Reference	[1], clause 7.3.2		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria					
Test Purpose name	Mapping of unsuccessful final	responses to REL after 18	30 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 as indicated in table 6.1.2.7-2, a SIP_Response with encapsulated 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'. The SIP status code is derived from the encapsulated REL Cause value. The interworking is described in table 6.1.2.7-2				
ISUP Parameter values	REL: Cause = REL_cause				
SIP Parameter values	SIP_Response				
	Reason: Q.850 [i.3]; cause				
Comments	Please consider that a sent SII	P status code is not equal	to the received SIP status code		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	180 Ringing (ACM) ←	(180 Ringing		
	SIP-I_Response (REL) ←	←	SIP_Response		
	ACK (RLC) →	→	ACK		

TP number	TP 207 003	Reference	[1], clause 7.3.2		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt of 4xx-5xx-6xx/				
Selection criteria					
Test Purpose name	Mapping of unsuccessful fir	al responses to REL after 18	81 was received		
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 181 Call is Being Forwarded as indicated in table 6.1.2.7-2, a SIP_Response with encapsulated 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'. The SIP status code is derived from the encapsulated REL Cause value. The interworking is described in table 6.1.2.7-2				
ISUP Parameter values	REL: Cause = REL_cause				
SIP Parameter values	SIP_Response				
	Reason: Q.850 [i.3]; cause= REL_cause				
Comments		-	to the received SIP status code		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		+	100 Trying		
	181 Call is Being ← Forwarded (ACM)	←	181 Call is Being Forwarded		
	SIP-I_Response (REL)	+	SIP Response		
	ACK (RLC) →	→	ACK '		

TP number	TP 207 004	Reference	[1], clause 7.3.2	
			[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic ca	II/Receipt of 4xx-5xx-6x	x/	
Selection criteria				
Test Purpose name	Mapping of unsuccessfu	I final responses to REL	after 183 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response after an early dialogue was established due to the receipt of a 183 Session Progress as indicated in table 6.1.2.7-2, a SIP_Response with encapsulated 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'. The SIP status code is derived from the encapsulated REL Cause value. The interworking is described in table 6.1.2.7-2			
ISUP Parameter values	REL: Cause = REL_ca	use		
SIP Parameter values	SIP_Response Reason: Q.850 [i.3];	cause= REL cause		
Comments	Please consider that a se	ent SIP status code is no	ot equal to the received SIP status code	
Message flows	SIP-I	MGCF	SIP NNI	
_	IAM	→	→ INVITE	
	← 100 Trying			
	183 Session Progress ← 183 Session Progress			
	SIP-I_Response (REL)	←	← SIP_Response	
	ACK (RLC)	→	→ ACK	

Table 6.1.2.7-2: Mapping of Reason header cause value into sent Response code

VA	← SIP-I_Response	← SIP_Response Reason header REL_cause	← SIP_Response
	Status code	Cause parameter	Status code
VA_01	404 Not Found	Cause value No 1 (Unallocated (unassigned) number)	400 Bad Request
VA_02	604 Does not exist anywhere	Cause value No 2 (No route to specified transit network)	401 Unauthorized
VA_03	604 Does not exist anywhere	Cause value No 3 (No route to destination)	402 Payment Required
VA_04	500 Server Internal error	Cause value No 4 (Send special information tone)	403 Forbidden
VA_05	404 Not Found	Cause value No 5 (Misdialled trunk prefix)	404 Not Found
VA_06	486 Busy Here	Cause value No 17 (User busy)	405 Method Not Allowed
VA_07	408 Request Timeout IF "ICS call" (see note 4) ELSE 480 Temporarily unavailable	Cause value No 18 (No user responding)	406 Not Acceptable
VA_08	480 Temporarily unavailable	Cause value No 19 (No answer from user (user alerted))	407 Proxy authentication required
VA_09	408 Request Timeout IF "ICS call" (see note 4) ELSE 480 Temporarily unavailable	Cause value No 20 (Subscriber absent)	408 Request Timeout
VA_10	603 Decline IF location field is set to user ELSE 403 Forbidden	Cause value No 21 (Call rejected)	410 Gone
VA_11	410 Gone	Cause value No 22 (Number changed)	413 Request Entity too long
VA_12	410 Gone	Cause value No 23 (Redirection to new destination)	414 Request-URI too long
VA_13	433 Anonymity Disallowed (see note 1)	Cause value No 24 (Call rejected due to feature at the destination)	415 Unsupported Media type
VA_14	483 Too Many Hops	Cause value No 25 (Exchange routing error)	416 Unsupported URI scheme
VA_15	480 Temporarily unavailable	Cause value No 26 (Non-selected user clearing)	417 Unknown Resource- Priority
VA_16	502 Bad Gateway	Cause value No 27 (Destination out of order)	420 Bad Extension
VA_17	484 Address Incomplete	Cause value No 28 (Invalid number format (address incomplete))	421 Extension required
VA_18	501 Not Implemented	Cause value No 29 (Facility rejected)	422 Session Interval Too Small

VA	← SIP-I_Response	← SIP_Response Reason header REL_cause	← SIP_Response
VA_19	480 Temporarily unavailable	Cause value No 31 (Normal, unspecified) (class default) (see note 2)	423 Interval Too Brief
VA_20	486 Busy here if Diagnostics indicator includes the (CCBS indicator = CCBS possible) else 503 Service Unavailable (see note 3)	Cause value No 34 (No circuit/channel available)	433 Anonymity Disallowed (see note 1)
VA_21	500 Server Internal error	Cause value No 38 (Network out of order)	440 Max-Breadth Exceeded
VA_22	503 Service Unavailable (see note 3)	Cause value No 41 (Temporary failure)	480 Temporarily Unavailable
VA_23	503 Service Unavailable (see note 3)	Cause value No 42 (Switching equipment congestion)	481 Call/Transaction does not exist
VA_24	500 Server Internal error	Cause value No 43 (Access information discarded)	482 Loop detected
VA_25	503 Service Unavailable (see note 3)	Cause value No 44 (Requested channel not available)	483 Too many hops
VA_26	500 Server Internal error	Cause value No 46 (Precedence call blocked)	484 Address Incomplete
VA_27	503 Service Unavailable (see note 3)	Cause value No 47 (Resource unavailable, unspecified) (class default)	485 Ambiguous
VA_28	488 Not acceptable here	Cause value No 50 (Requested facility not subscribed)	486 Busy Here
VA_29	603 Decline	Cause value No 55 (Incoming class barred within Closed User Group (CUG))	487 Request terminated
VA_30	603 Decline	Cause value No 57 (Bearer capability not authorized)	488 Not acceptable here
VA_31	503 Service Unavailable (see note 3)	Cause value No 58 (Bearer capability not presently available)	493 Undeciphera
VA_32	501 Not Implemented	Cause value No 63 (Service option not available, unspecified) (class default)	500 Server Internal error
VA_33	500 Server Internal error	Cause value No 65 (Bearer capability not implemented)	501 Not implemented
VA_34	501 Not Implemented	Cause value No 69 (Requested facility not implemented)	502 Bad Gateway
VA_35	501 Not Implemented	Cause value No 70 (Only restricted digital information capability is available)	503 Service Unavailable
VA_36	501 Not Implemented	Cause value No 79 (Service or option not implemented, unspecified) (class default)	504 Server timeout
VA_37	403 Forbidden	Cause value No 87 (User not member of Closed User Group (CUG))	505 Version not supported
VA_38	606 Not Acceptable	Cause value No 88 (Incompatible destination)	513 Message too large
VA_39	403 Forbidden	Cause value No 90 (Non existing Closed User Group (CUG))	580 Precondition failure
VA_40	500 Server Internal error	Cause value No 91 (Invalid transit network selection)	600 Busy Everywhere
VA_41	513 Message too large	Cause value No 95 (Invalid message, unspecified) (class default)	603 Decline
VA_42	501 Not Implemented	Cause value No 97 (Message type non-existent or not implemented)	604 Does not exist anywhere
VA_43	501 Not Implemented	Cause value No 98 (Message not compatible with call state or message type non-existent or not implemented)	606 Not Acceptable
NOTE 2	: Anonymity Disallowed, IETF: Class 0 and class 1 have the	same default value.	
	No Retry-After header field isThe I-MGCF identifies a call a	included. as an "ICS call" as specified in clause 7.2.3.1.2.12 o	of ETSI TS 129 163 [2].

Table 6.1.2.7-3: Void

TP number	TP_207_006	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML Pro the REL	gressIndicator 1 in an unsu	uccessful final response into ATP in	
Test Purpose			tor value 1 in an unsuccessful final	
			nse with encapsulated REL is sent	
	and an Access Transport P	arameter is present contai	ning a Progress Indicator #1	
ISUP Parameter values	REL: Access Transport			
	Progress Indicat			
	Progress De	scription='0000001'		
SIP Parameter values	SIP_Response:			
	xml version="1.0" encod</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescrip	tion> 0000001 <		
Comments				
Message flows	SIP-I MGCF SIP NNI			
	INVITE (IAM) →	→	INVITE	
	100 Trying ←	←	100 Trying	
	SIP Response (REL)	(
	ACK (RLC) →	→	- ·	

TP number	TP 207 007	Reference	[1], clauses 7.2.1, 7.3.1		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt of 4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progrethe REL	ssIndicator 2 in an unsuc	cessful final response into ATP in		
Test Purpose			or value 2 in an unsuccessful final		
			se with encapsulated REL is sent		
	and an Access Transport Para	meter is present containi	ng a Progress Indicator #2		
ISUP Parameter values	REL: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000010'			
SIP Parameter values	SIP Response:				
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000010<			
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	IAM →	→	INVITE		
		←	100 Trying		
	SIP_Response (REL) ←	+	SIP Response		
	ACK (RLC) →	→	ACK		

TP number	TP_207_008	Reference)	[1], clause 7.3.1
				[2], clause 7.2.3.2.12
TSS reference	SIP-I - SIP NNI/Basic ca	II/Receipt_of_4xx-	5xx-6xx/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML F	ProgressIndicator	4 in an unsucce	ssful final response into ATP in
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 4 in an unsuccessful final response as indicated in table 6.1.2.7-4, a SIP_Response with encapsulated REL is sent and an Access Transport Parameter is present containing a Progress Indicator #4			
ISUP Parameter values	REL: Access Transport Progress Indicator Progress Description='0000100'			
SIP Parameter values	SIP_Response: xml version="1.0" ence PSTN ProgressIndicator ProgressOctet4 ProgressDesc</th <th>oding="utf-8"?> cription>0000100<</th> <th>:</th> <th></th>	oding="utf-8"?> cription> 0000100 <	:	
Comments		•		
Message flows	SIP-I MGCF SIP NNI			
	INVITE (IAM)	→	← 1	NVITE 00 Trying
	SIP_Response (REL) ACK (RLC)	← →		SIP_Response ACK

TP number	TP_207_009	Reference	[1], clause 7.3.1			
	1		[2], clause 7.2.3.2.12			
TSS reference	SIP-I - SIP NNI/Basic call/Rec	SIP-I - SIP NNI/Basic call/Receipt of 4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre the REL	Mapping of PSTN XML ProgressIndicator 5 in an unsuccessful final response into ATP in the REL				
Test Purpose	response as indicated in table	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 SIP_Response with encapsulated REL is sent and an Access Transport Parameter is present containing a Progress Indicator #5				
ISUP Parameter values	IAM: USI=speech or 3,1 kHz		tricted digital info with T/A,			
	REL: Access Transport					
	Progress Indicator					
	Progress Descri	ption='0000101'				
SIP Parameter values	SIP_Response:	SIP_Response:				
	xml version="1.0" encoding:<br PSTN	="utf-8"?>				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	n> 0000101 <				
Comments						
Message flows	SIP-I MGCF SIP NNI					
	INVITE (IAM) →	→	INVITE 100 Trying			
	SIP_Response (REL) ← ACK (RLC) →	← →	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_207_010	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.12		
SID I SID NNI/Pagio call/Page	pint of Avy Evy Evy	[[2], Clause 7.2.3.2.12		
in REL				
Ensure that on receipt of an unsuccessful final response and a PSTN XML				
HighLayerCompatibility elemer	it is present a SIP_Respo	nse as indicated in table 6.1.2.7-4		
with encapsulated REL is sent	and a Access Transport F	Parameter is present containing a		
High layer compatibility IE and	the value is set to the value	ue HLC_VA as indicated in		
table 6.1.2.5-1				
REL: Access Transport				
High layer compatib	ility			
High layer chara	cteristics identification = H	ILC_VA		
SIP Response:				
PSTN XML MIME body				
xml version="1.0" encoding="utf-8"?				
PSTN				
HighLayerCompatibility				
HLOctet3				
CodingStandard>00<				
Interpretation>100<				
PresentationMethod	>01<			
HLOctet4				
HighLayerCharacter	istics>HLC VA<			
SIP-I	MGCF	SIP NNI		
INVITE (IAM) →	→	INVITE		
,	←	100 Trying		
SIP Response (RFL)	-	SIP_Response		
_ · · · ·		ACK		
	SIP-I - SIP NNI/Basic call/Rece PICS 6.2.1/5 Mapping of PSTN XML HighLa in REL Ensure that on receipt of an un HighLayerCompatibility elemen with encapsulated REL is sent High layer compatibility IE and table 6.1.2.5-1 REL: Access Transport High layer compatibility High layer charae SIP_Response: PSTN XML MIME body xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4 HighLayerCharacter	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/ PICS 6.2.1/5 Mapping of PSTN XML HighLayerCompatibility in an unsin REL Ensure that on receipt of an unsuccessful final response HighLayerCompatibility element is present a SIP_Respowith encapsulated REL is sent and a Access Transport FHigh layer compatibility IE and the value is set to the valuable 6.1.2.5-1 REL: Access Transport High layer compatibility High layer characteristics identification = HIGH SIP_Response: PSTN XML MIME body xml version="1.0" encoding="utf-8"? PSTN HighLayerCompatibility HLOctet3 CodingStandard>00< Interpretation>100< PresentationMethod>01 HLOctet4 HighLayerCharacteristics>HLC_VA SIP-I MGCF INVITE (IAM) SIP_Response (REL)		

TP number	TP 207 011	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.12			
TSS reference	SIP-I - SIP NNI/Basic call/Receipt of 4xx-5xx-6xx/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Bearer	Capability in an unsucces	ssful final response into ATP in REL			
Test Purpose	Ensure that on receipt of an un	successful final response	and a PSTN XML			
	BearerCapability element is pre	esent, a SIP_Response a	s indicated in table 6.1.2.7-4 with			
	encapsulated REL is sent and	a Access Transport Parai	meter is present containing a			
	Bearer Capability IE and the va	lue is set to the value IT0	C_value as indicated in			
	table 6.1.2.5-2					
ISUP Parameter values	REL: Access Transport					
	Bearer Capability					
	Information Transfer Capability = ITC_value					
SIP Parameter values	SIP_Response:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability> ITC_value <					
	BCoctet4					
	TransferMode>00<					
	InformationTransfer	Rate>10000<				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
		←	100 Trying			
	SIP_Response (REL) ←	←	SIP_Response			
	ACK (RLC) →	→	ACK .			

TP number	TP_207_012	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/20				
Test Purpose name	Play media provided in an Erro	r-Info header received in	an unsuccessful final response		
Test Purpose			ia associated with an URL present		
	in an Error-Info header receive	d in an unsuccessful final	response as indicated in		
	table 6.1.2.7-4		·		
ISUP Parameter values					
SIP Parameter values	SIP Response: Error-Info: <media re="" source="" url=""></media>				
Comments					
Message flows	SIP-I	MGCF	ISUP		
	INVITE (IAM) →	→	INVITE		
	100 Trying ←	←	100 Trying		
		←	SIP Response		
	183 Session Progress	→	ACK .		
	The MGC plays media				
	SIP_Response ←				
	ACK →				
		Apply post test routing	ne		

Table 6.1.2.7-5: Void

SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/ Selection criteria	'.3.1 7.2, 7.2.3.2.1	Reference [1], cla	TP_207_015 Re	TP number		
Selection criteria PICS 6.2.1/3	,	TSS reference				
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						
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		thin an early dialog	580 response to an UPDATE withi	Test Purpose name		
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	1 UPDATE			Test Purpose		
check performed on previous circuit COT: Continuity indicator=continuity check successful REL: Cause=127 INVITE: Supported: precondition, 100rel SDP a=curr:qos local none	is set to 127	alogue, a REL is sent and the Cause	request was sent in the early dialo			
COT: Continuity indicator=continuity check successful REL: Cause=127 SIP Parameter values INVITE: Supported: precondition, 100rel SDP	cuit or continuity	ISUP Parameter values				
REL: Cause=127 SIP Parameter values INVITE: Supported: precondition, 100rel SDP						
SIP Parameter values INVITE: Supported: precondition, 100rel SDP		inuity check successful				
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:						
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:				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=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE:						
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:						
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 none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE:		enote sendiecv	a-des.qus none ten			
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:		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:						
a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE:						
a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE:						
UPDATE:						
1						
a=curr:qos remote none						
a=des:qos mandatory local sendrecy						
a=des:qos mandatory remote sendrecv Comments		lory remote sendrecv	a-des.qos mandato	Comments		
Message flows SIP-I MGCF SIP NNI	ID NINI	MGCE	SID_I			
INVITE (IAM) → INVITE	IL IAIAI		_	Wessage nows		
100 Trying 100 Trying						
183 Session Progress 183 Session Progress	Progress					
PRACK → PRACK	i i rogroco					
200 OK (PRACK) ← 200 OK (PRACK)	ACK)					
UPDATE → UPDATE	,					
580 Precondition ← 580 Precondition Failure	dition Failure					
Failure (REL)		- 00011				
ACK (RLC) → ACK		→ ACK				
Apply post test routine			` ,			

6.1.2.8 Receipt of a BYE

TP number	TP_208_001	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.13					
TSS reference	SIP-I - SIP NNI/Basic call/R	SIP-I - SIP NNI/Basic call/Receipt of BYE/						
Selection criteria		·						
Test Purpose name	BYE received, REL is sent							
Test Purpose	Ensure that on receipt of a BYE message and no reason header is present, a BYE with encapsulated REL is sent. The Cause value of the REL is set to #16, the location is set to 'network beyond interworking point'							
ISUP Parameter values	•	•						
SIP Parameter values								
Comments								
Message flows	SIP-I	MGCF	SIP NNI					
	INVITE (IAM) 180 Ringing (ACM - free)	→ ← ←	INVITE 100 Trying 180 Ringing					
	200 OK (INVITE) (ANM) ACK	← ← →	200 OK (INVITE) ACK					
	BYE (REL) 200 OK (BYE)RLC	← ← → →	BYE 200 OK (BYE)					

	TD 000 000		T42 1 704				
TP number	TP_208_002	Reference	[1], clause 7.3.1				
			[2], clause 7.2.3.2.13				
TSS reference	SIP-I - SIP NNI/Basic call/R	Receipt_of_BYE/					
Selection criteria							
Test Purpose name	BYE received a Reason he	ader is present, REL Caus	se derived from the Reason cause				
	value						
Test Purpose	Ensure that on receipt of a	BYE request and a Reaso	on header is present, a BYE with				
-	encapsulated REL is sent.	The REL Cause value is d	erived from cause parameter in the				
	received Reason header	· ·					
ISUP Parameter values	REL: Cause= <reason ca<="" th=""><th colspan="6">REL: Cause=<reason cause=""></reason></th></reason>	REL: Cause= <reason cause=""></reason>					
SIP Parameter values	BYE: Reason: cause	BYE: Reason: cause					
Comments							
Message flows	SIP-I	MGCF	SIP NNI				
_	INVITE (IAM)	→	INVITE				
	, ,	•	₹ 100 Trying				
	180 Ringing (ACM free)	(, ,				
	200 OK (INVITE) (ANM)	←	= 200 OK (INVITE)				
	ACK ` ´` ´	-	` ,				
	BYE (REL)	←	BYE				
	200 OK (BYE) (RLC)	→	200 OK (BYE)				

TP number	TP 208 003	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.13		
TSS reference	SIP-I - SIP NNI/Basic call/Rec	eipt of BYE/	11. 17		
Selection criteria	PICS 6.2.1/5	· _ _			
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 1 in a BYE in	nto ATP in the REL		
Test Purpose			or value 1 in a BYE request, a BYE		
-			rt Parameter is present containing a		
	Progress Indicator #1	•	•		
ISUP Parameter values	REL: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000001'			
SIP Parameter values	BYE:				
	xml version="1.0" encoding:</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	า>000001<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	INVITE		
		+	100 Trying		
	180 Ringing (ACM - free)	(180 Ringing		
	200 OK (INVITE) (ANM)	(200 OK (INVITE)		
		→ →	ACK		
	BYE (REL)	+ +	BYE		
	` '	→	200 OK (BYE)		

TP number	TP 208 004	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.13			
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt of BYE/	TE 4/			
Selection criteria	PICS 6.2.1/5	· -				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in a BYE into	ATP in the REL			
Test Purpose			r value 2 in a BYE request, a BYE			
		and an Access Transport	Parameter is present containing a			
	Progress Indicator #2					
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
	Progress Descrip	otion='0000010'				
SIP Parameter values	BYE:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>0000010<				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	INVITE			
		-	100 Trying			
	180 Ringing (ACM - free) ← 180 Ringing					
	200 OK (INVITE) (ANM)	←	200 OK (INVITE)			
	ACK → ACK					
	BYE (REL)	+	BYE			
	, ,	→	200 OK (BYE)			

TP number	TP 208 005	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.13		
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_BYE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 4 in a BYE i	nto ATP in the REL		
Test Purpose			tor value 4 in a BYE request, a BYE		
		and an Access Transpo	ort Parameter is present containing a		
	Progress Indicator #4				
ISUP Parameter values	REL: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000100'			
SIP Parameter values	BYE:				
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000100<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	·····-		
		(
	180 Ringing (ACM- free)	-	180 Ringing		
	200 OK (INVITE) (ANM)	-	200 OK (INVITE)		
	ACK -	→	ACK		
	BYE (REL)	+ +	BYE		
	200 OK (BYE) (RLC)	→	200 OK (BYE)		

TP number	TP_208_006	Reference		[1], clause 7.3.1				
I Humber	11 _200_000	Kelelelice		[2], clause 7.3.1				
TSS reference	SIP-I - SIP NNI/Basic call/Re	SIP-I - SIP NNI/Basic call/Receipt of BYE/						
Selection criteria	PICS 6.2.1/5	00.pt_0b 1.2/						
Test Purpose name	Mapping of PSTN XML Progr	ressIndicator 5 in a F	SYF into ATE	in the RFI				
Test Purpose	Ensure that on receipt of a P							
Test i dipose				meter is present containing a				
	Progress Indicator #5	it and an 7 toocss Tre	insport i did	meter is present containing a				
ISUP Parameter values	IAM: USI=speech or 3,1 kH	z audio USI prime=	unrestricted	digital info with T/A				
loor ranamotor varaos	TMR=64 kbit/s prefer							
	REL: Access Transport	ош, р ор						
	Progress Indicator							
		ription='0000101'						
SIP Parameter values	BYE:							
	<pre><?xml version="1.0" encoding</pre></pre>	g="utf-8"?>						
	PSTN							
	ProgressIndicator							
	ProgressOctet4							
	ProgressDescription>0000101<							
Comments	-							
Message flows	SIP-I	MGCF		SIP NNI				
	IAM	→	→ INVI	TE				
			← 100 °	Trying				
	180 Ringing (ACM - free) ← 180 Ringing							
	200 OK (INVITE) (ANM) ← ← 200 OK (INVITE)							
	ACK → ACK							
	BYE (REL)	←	← BYE					
	200 OK (BYE) (RLC)	→	→ 200	OK (BYE)				

TP number	TP_208_007	Reference		[1], clause 7.3.1 [2], clause 7.2.3.2.13		
TSS reference	SIP-I - SIP NNI/Basic call/Red	oint of BVE/		[[2], clause 7.2.3.2.13		
Selection criteria	PICS 6.2.1/5	elbr_ol_b i E/				
Test Purpose name	Mapping of PSTN XML HighL	averCompatibility in	a RVE inte	ο ATD in REI		
Test Purpose	Ensure that on receipt of BVE	request and a PSTN	I XMI Hic	ghLayerCompatibility element is		
lest i dipose	present a BYE with encapsula					
				ue is set to the value HLC_VA		
	as indicated in table 6.1.2.5-1					
ISUP Parameter values	REL: Access Transport					
	High layer compati	bility				
	High layer char	acteristics identificati	on = HLC	C_VA		
SIP Parameter values	BYE:					
	PSTN XML MIME body					
	xml version="1.0" encoding</th <th>j="utf-8"?></th> <th></th> <th></th>	j="utf-8"?>				
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
	CodingStandard>00<					
	Interpretation>100< PresentationMethod>01<					
	HLOctet4					
	HighLayerCharacteristics> HLC_VA <					
Comments	ga.y or or					
Message flows	SIP-I	MGCF		SIP NNI		
	INVITE (IAM)	→	→ IN'	VITE		
	, ,		← 10	0 Trying		
	180 Ringing (ACM- free) ← 180 Ringing					
	200 OK (INVITE) (ANM) ← ← 200 OK (INVITE)					
	ACK	→	→ AC	CK		
	BYE (REL)	←	← BY	Æ		
	200 OK (BYE) (RLC)	→	→ 20	0 OK (BYE)		

TP number	TP 208 008	Reference	[1], clause 7.3.1					
			[2], clause 7.2.3.2.13					
TSS reference	SIP-I - SIP NNI/Basic call/Rec	SIP-I - SIP NNI/Basic call/Receipt of BYE/						
Selection criteria	PICS 6.2.1/5	<u> </u>						
Test Purpose name	Mapping of PSTN XML Bearer	Capability in a BYE into	ATP in REL					
Test Purpose	Ensure that on receipt of a BY	E request and a PSTN X	ML BearerCapability element is					
	present, a BYE with encapsula							
		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		_					
		nsfer Capability = ITC_va	lue					
SIP Parameter values	BYE:	II. (f. 0IIO)						
	xml version="1.0" encoding="utf-8"?							
	PSTN Paranto and tilita							
	BearerCapability BCoctet3							
	CodingStandard>00<							
	InformationTransferCapability> ITC_value <							
	BCoctet4							
	TransferMode>00<							
	InformationTransferRate>10000<							
Comments								
Message flows	SIP-I	MGCF	SIP NNI					
	IAM	→	INVITE					
		-	100 Trying					
	180 Ringing (ACM - free) ← 180 Ringing							
	200 OK (INVITE) (ANM) ← ← 200 OK (INVITE)							
	ACK	→	ACK					
	(· ·/	(BYE					
	200 OK (BYE) (RLC)	→	200 OK (BYE)					

6.1.2.9 Receipt of the Release Message

TP number	TP 209 001	Reference		[1], clause 7.3.1
i P number	16_209_001	Reference		
				[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/R	Receipt_of_REL/		
Selection criteria				
Test Purpose name	REL received before an ear	rly dialogue was esta	blished, a	CANCEL is sent
Test Purpose	Ensure that on receipt of a	CANCEL/BYE with e	ncapsulat	ed REL message before an early
-	dialogue was established, a	CANCEL request is	sent and	the Reason header is present,
	the received Reason heade			,
ISUP Parameter values				
SIP Parameter values	CANCEL: Reason: cause=	<cause value=""></cause>		
Comments				
Message flows	SIP-I	MGCF		SIP NNI
	INVITE (IAM)	→	→	NVITE
	100 Trying	←	← 1	100 Trying
	CANCEL/BYE (REL)	→	→ (CANCEL
	200 OK (CANCEL) (RLC)	←	← 2	200 OK (CANCEL)
	487 Request Terminated	←		187 Request Terminated
	ACK .	→		ACK '

TP number	TP_209_001A	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.14		
TSS reference	SIP-I - SIP NNI/Basic call/Red	eipt_of_REL/			
Selection criteria					
Test Purpose name	REL received before an early	dialogue was established,	a CANCEL is sent		
Test Purpose	Ensure that on receipt of a CA	NCEL/BYE with encapsula	ated REL message before an early		
	dialogue was established, a C				
	present, the cause value is d	erived from the Cause valu	ie in the received REL		
ISUP Parameter values	REL: Cause value				
SIP Parameter values	CANCEL: Reason: cause= <c< th=""><th>ause value></th><th></th></c<>	ause value>			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	INVITE		
	100 Trying ←	·	100 Trying		
	CANCEL/BYE (REL) → CANCEL				
	200 OK (CANCEL) (RLC) €	· ←	200 OK (CANCEL)		
	487 Request Terminated •	· ←	487 Request Terminated		
	ACK -	→	ACK		

TP number	TP_209_002	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.14		
T00 (CID I CID NAU/D: II/D	-int of DEL/	[[2], Clause 1.2.3.2.14		
TSS reference	SIP-I - SIP NNI/Basic call/Red	celpt_of_REL/			
Selection criteria					
Test Purpose name	REL received after an early di	alogue with 180 was establish	ned, a CANCEL is sent		
Test Purpose	Ensure that on receipt of a CA	NCEL/BYE with encapsulated	d REL message after an early		
-	dialogue due to a 180 Ringing	ı response was established. a	CANCEL request is sent and		
	the Reason header is present				
ISUP Parameter values		The results of the second seco			
SIP Parameter values	CANCEL: Reason: cause= <c< th=""><th>ause value></th><th></th></c<>	ause value>			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	NVITE		
	, ,	•	► 100 Trying		
	180 Ringing (ACM - free)		180 Ringing		
	CANCEL/BYE (REL)	→	→ CANCEL		
	200 OK (CANCEL) (RLC)		200 OK (CANCEL)		
	487 Request Terminated	-	487 Request Terminated		
	ACK	→	→ ACK		

TP number	TD 200 0024	Deference	[1] alauga 7.2.1
1P number	TP_209_002A	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name		alogue with 180 was establishe	
Test Purpose	Ensure that on receipt of a CA	NCEL/BYE with encapsulated I	REL message after an early
	dialogue due to a 180 Ringing	response was established, a C	ANCEL request is sent and
		sent, the cause value is derived	
	received REL	,	
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>ause value></th><th></th></ca<>	ause value>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→ →	INVITE
	, ,	+	100 Trying
	180 Ringing (ACM - free)	+ +	180 Ringing
	Too ranging (radii 1100)		100 Tanging
	CANCEL/BYE (REL)	→	CANCEL
	200 OK (CANCEL) (RLC)	+ +	200 OK (CANCEL)
	487 Request Terminated	+ +	487 Request Terminated
	ACK	→ →	ACK
	ACK	7	AUN

TP number	TP_209_003	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rece	ipt_of_REL/	
Selection criteria			
Test Purpose name	REL received after an early dia	logue with 181 was established	d, a CANCEL is sent
Test Purpose	Ensure that on receipt of a CAN	NCEL/BYE with encapsulated F	REL message after an early
	dialogue due to a 181 Call is Be		
	request is sent and the Reason	header is present, the receive	d Reason header is sent
ISUP Parameter values			
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value></th><th></th></ca<>	use value>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→ →	INVITE
		+	100 Trying
	181 Being forwarded (ACM)	←	181 Being forwarded
	CANCEL/BYE (REL)	→	CANCEL
	200 OK (CANCEL) (RLC)	+ +	200 OK (CANCEL)
	487 Request Terminated	← ←	487 Request Terminated
	ACK	→	ACK

TP number	TP_209_003A	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name	REL received after an early dia	logue with 181 was establishe	d, a CANCEL is sent
Test Purpose	Ensure that on receipt of a CANCEL/BYE with encapsulated 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 not present , the cause value is derived from the Cause value in the received REL		
ISUP Parameter values	REL: Cause value		
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value></th><th></th></ca<>	use value>	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→ → ←	INVITE 100 Trying
	181 Being forwarded (ACM)	+ +	181 Being forwarded
	CANCEL/BYE (REL)	>	CANCEL
	200 OK (CANCEL) (RLC)	+	200 OK (CANCEL)
	487 Request Terminated	+	487 Request Terminated
	ACK	→ →	ACK

TP number	TP 209 004	Reference	[1] clause 7.3.1
i F number	17_209_004	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name			
Test Purpose	REL received after an early dia	logue with 182 was established	d, a CANCEL is sent
ISUP Parameter values	Ensure that on receipt of a CA	NCEL/BYE with encapsulated I	REL message after an early
	dialogue due to a 182 Queued	response was established, a C	CANCEL request is sent and
	the Reason header is present,		
SIP Parameter values			
Comments	CANCEL: Reason: cause= <ca< th=""><th>ause value></th><th></th></ca<>	ause value>	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→ →	INVITE
	, ,	+ +	100 Trying
	182 Queued (ACM)	← ←	182 Queued
	CANCEL/BYE (REL)	→ →	CANCEL
	200 OK (CANCEL) (RLC)	← ←	200 OK (CANCEL)
	487 Request Terminated	+ +	487 Request Terminated
	ACK	→	ACK .

TP number	TP_209_004A	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name			
Test Purpose	REL received after an early dia	logue with 182 was establishe	ed, a CANCEL is sent
ISUP Parameter values	Ensure that on receipt of a CAN	NCEL/BYE with encapsulated	REL message after an early
	dialogue due to a 182 Queued		
	the Reason header is not pres	ent, the cause value is derive	d from the Cause value in the
	received REL		
SIP Parameter values	REL: Cause value		
Comments	CANCEL: Reason: cause= <ca< th=""><th>use value></th><th></th></ca<>	use value>	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→ →	INVITE
	, ,	← ←	100 Trying
	182 Queued (ACM)	← ←	182 Queued
	CANCEL/BYE (REL)	→	CANCEL
	200 OK (CANCEL) (RLC)	+ +	200 OK (CANCEL)
	487 Request Terminated	+ +	,
	ACK	→ →	ACK

TP number	TP_209_005	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.14	
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/		
Selection criteria				
Test Purpose name	REL received after an early dia	alogue with 183 was establishe	ed, a CANCEL is sent	
Test Purpose	Ensure that on receipt of a CANCEL/BYE with encapsulated 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 received Reason header is sent			
ISUP Parameter values				
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>ause value></th><th></th></ca<>	ause value>		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→ →	INVITE	
	100 Trying	+ +	100 Trying	
	183 Session Progress (ACM)	← ←	183 Session Progress	
	CANCEL/BYE (REL)	→	CANCEL	
	200 OK (CANCEL) (RLC)	+ +	200 OK (CANCEL)	
	487 Request Terminated	+ +	487 Request Terminated	
	ACK	→ →	ACK	

TP number	TP_209_005A	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.14		
TSS reference	SIP-I - SIP NNI/Basic call/Rece	SIP-I - SIP NNI/Basic call/Receipt of REL/			
Selection criteria					
Test Purpose name	REL received after an early dia	logue with 183 was establishe	ed, a CANCEL is sent		
Test Purpose	Ensure that on receipt of a CANCEL/BYE with encapsulated 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 not present , the cause value is derived from the Cause				
	value in the received REL				
ISUP Parameter values	REL: Cause value				
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>ause value></th><th></th></ca<>	ause value>			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→ →	INVITE		
	100 Trying	+ +	100 Trying		
	183 Session Progress (ACM)		183 Session Progress		
	CANCEL/BYE (REL)	>	CANCEL		
	200 OK (CANCEL) (RLC)	+ +	200 OK (CANCEL)		
	487 Request Terminated	+ +	487 Request Terminated		
	ACK	→	ACK		

TP number	TP_209_006	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name	REL received in the confirmed	dialogue a BYE is sent	
Test Purpose	Ensure that on receipt of a BYI	E with encapsulated REL mess	sage in the confirmed
	dialogue, a BYE request is se	nt and the Reason header is p	resent, the cause value is
	derived from the Cause value i	n the received REL	
ISUP Parameter values	REL: Cause value		
SIP Parameter values	BYE: Reason: cause= <cause< th=""><th>e value></th><th></th></cause<>	e value>	
Comments			
Message flows	SIP-I	MGCF	IP NNI
_	INVITE (IAM)	→	INVITE
	100 Trying	+ +	100 Trying
	180 Ringing (ACM - free)	+ +	180 Ringing
	200 OK (INVITE) (ANM)	+ +	200 OK (INVITE)
	ACK	→ →	ACK
	DVE (DEL)	→ →	BYE
	BYE (REL) 200 OK (BYE) (RLC)	*	200 OK (BYE)

TP number	TP 209 007	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.14			
TSS reference	SIP-I - SIP NNI/Basic call/Rec	SIP-I - SIP NNI/Basic call/Receipt of REL/				
Selection criteria	PICS 6.2.1/5	·				
Test Purpose name	Mapping of REL ATP Progress BYE	Mapping of REL ATP Progress Indicator #1 into PSTN XML ProgressIndicator #1 in the BYE				
Test Purpose	message and a ATP containing	Ensure that on receipt of a BYE in the confirmed dialogue with encapsulated REL message and a ATP containing a Progress Indicator #2 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #1				
ISUP Parameter values	REL: Access Transport Progress Indicator Progress Descri					
SIP Parameter values		BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4				
Comments						
Message flows	SIP NNISIP-I INVITE (IAM) 180 Ringing (ACM) 200 OK (INVITE) (ANM) ACK BYE (REL) 200 OK (BYE) (RLC)	← ← ← ← ← ← ← ← ← ←	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK BYE 200 OK (BYE)			

TP number	TP_209_008	Reference	[1], clause 7.3.1		
T00		<u> </u>	[2], clause 7.2.3.2.14		
TSS reference	SIP-I - SIP NNI/Basic call/Rece	elpt_ot_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP Progress Indicator #2 into PSTN XML ProgressIndicator #2 in the BYE				
Test Purpose	Ensure that on receipt of a BYE in the confirmed dialogue with encapsulated REL message and a ATP containing a Progress Indicator #2 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #2				
ISUP Parameter values	REL: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000010'			
SIP Parameter values	BYE:				
	<pre><?xml version="1.0" encoding=</pre></pre>	"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000010<				
Comments	-				
Message flows	SIP NNISIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	INVITE		
	,	+	100 Trying		
	180 Ringing (ACM - free)	← ←	180 Ringing		
	200 OK (INVITE) (ANM)	+ +	,		
	ACK	→	ACK		
	BYE (REL)	→	BYE		
	200 OK (BYE) (RLC)	'	= - =		

TP number	TP 209 009	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.14		
TSS reference	SIP-I - SIP NNI/Basic call/Rec	SIP-I - SIP NNI/Basic call/Receipt of REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP Progress BYE	Mapping of REL ATP Progress Indicator #4 into PSTN XML ProgressIndicator #4 in the BYE			
Test Purpose	Ensure that on receipt of a BYE in the confirmed dialogue with encapsulated 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 Indicator Progress Description='0000100'				
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000100<				
Comments					
Message flows	SIP NNISIP-I INVITE (IAM) 180 Ringing (ACM) 200 OK (INVITE) (ANM) ACK BYE (REL) 200 OK (BYE) (RLC)	← ← ← →	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK BYE 200 OK (BYE)		

TP number	TP_209_010	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.14	
TSS reference	SIP-I - SIP NNI/Basic call/Receipt of REL/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of REL ATP Progress Indicator #5 into PSTN XML ProgressIndicator #5 in the BYE			
Test Purpose	Ensure that on receipt of a BYE in the confirmed dialogue with encapsulated REL message and an ATP containing a Progress Indicator #5 in the confirmed dialogue, a BYE request is sent and a PSTN XML ProgressIndicator is present, the ProgressDescription is set to #5			
ISUP Parameter values	REL: Access Transport			
	Progress Indicator			
	Progress Descrip	otion='0000101'		
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000101<			
Comments				
Message flows	INVITE (IAM)	MGCF → →	SIP NNI INVITE	
	180 Ringing (ACM)	+ +	100 Trying 180 Ringing	
	200 OK (INVITE)(ANM) ACK	← ← → →	200 OK (INVITE) ACK	
	BYE (REL) 200 OK (BYE) (RLC)	→ → ← ←	BYE 200 OK (BYE)	

TP number	TP_209_011	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.14	
TSS reference	SIP-I - SIP NNI/Basic call/Rece	eipt_of_REL/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of REL ATP High layer the BYE	, ,		
Test Purpose	Ensure that on receipt of a BYE in the confirmed dialogue with encapsulated REL message and an ATP containing a High layer compatibility IE in the confirmed dialogue, a BYE request is sent and a PSTN XML HighLayerCompatibility is present, the HighLayerCharacteristics is set to HLC_VA as indicated in table 6.1.2.1-4			
ISUP Parameter values	REL: Access Transport High layer compatible	lity		
		cteristics identification = HLC	VA	
SIP Parameter values	BYE:	Ciensuos idenuncauon – neo	_*^	
oir raiameter values	PSTN XML MIME body xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4 HighLayerCharacter	< >01<		
Comments				
Message flows	SIP NNISIP-I INVITE (IAM) 180 Ringing (ACM - free)	MGCF → ← ←	100 Trying	
	200 OK (INVITE) (ANM) ACK	← ← ← → →		
	BYE (REL) 200 OK (BYE) (RLC)	→ → ← ←		

TP number	TP_209_012	Reference		[1], clause 7.3.1	
				[2], clause 7.2.3.2.14	
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP Bearer 0				
Test Purpose	Ensure that on receipt of a BY				
	message and an ATP containi				
	request is sent and a PSTN XI				
	InformationTransferCapability	is set to ITC_value as indic	ated	in table 6.1.2.1-6	
ISUP Parameter values	REL: Access Transport				
	Bearer Capability				
		nsfer Capability = ITC_value	9		
SIP Parameter values	BYE:	W 45 0W0			
	<pre><?xml version="1.0" encoding</pre></pre>	="utf-8""?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability> ITC_value < BCoctet4				
	TransferMode>00<				
	InformationTransferRate>10000<				
Comments	mematerriande	1445-1000-			
Message flows	SIP NNISIP-I	MGCF		SIP NNI	
3.	INVITE (IAM)	→	→	INVITE	
	100 Trying	←	←	100 Trying	
	180 Ringing (ACM)	←	←	180 Ringing	
	3 3 (-)			3 3	
	200 OK (INVITE) (ANM)	←	←	200 OK (INVITE)	
	ACK	→	→	ACK	
	BYE (REL)	→	→	BYE	
	200 OK (BYE) (RLC)	←	←	200 OK (BYE)	

6.1.2.10 Void

6.1.2.11 Autonomous Release at O-MGCF

TP number	TP_211_003	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.16	
TSS reference	SIP-I - SIP NNI/Basic call/Autonomou	is_Release/		
Selection criteria				
Test Purpose name	Call is released to due message compatibility instruction 'Release call' received in the early dialogue			
Test Purpose	Ensure that on receipt of an unknown ISUP message in the early dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP CANCEL request is sent and a Reason header field is present			
ISUP Parameter values	??? = unknown message: Message compatibility information: Release call indicator=release call REL: Cause=97			
SIP Parameter values	CANCEL: Reason			
Comments	For an unknown message use a mes	sage type unknown in t	he SUT	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→ →	INVITE	
	180 Ringing (ACM - free)	+ +	180 Ringing	
	INFO(???)	→		
	500 Server Internal Error (REL#97)	← →	CANCEL	
	ACK (RLC)	→ ←		
		+	487 Request Terminated	
		→	ACK	

TP number	TP_211_004	Reference		[1], clause 7.3.1
				[2], clause 7.2.3.2.16
TSS reference	SIP-I - SIP NNI/Basic call/Autonomous_Release/			
Selection criteria				
Test Purpose name	Call is released to due message compatibility instruction 'Release call' received in the			
	confirmed dialogue			
Test Purpose	Ensure that on receipt of an unknown ISUP message in the confirmed dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP BYE request is sent and a Reason header			
	field is present	addition d'en Bre reque	000	on and a reason neads.
ISUP Parameter values	??? = unknown message: Message compatibility information: Release call indicator=release call REL: Cause=97			
SIP Parameter values	BYE: Reason			
Comments	For an unknown message use a message type unknown in the SUT			
Message flows	SIP NNISIP-I	MGCF		ISUP
	INVITE (IAM)	→	→	INVITE
	180 Ringing (ACM - free)	←	←	180 Ringing
	200 OK (INVITE)	←	←	200 OK (INVITE)
	ACK	→	→	ACK
	INFO(???)	→		
	BYE (REL#97)	←	→	BYE
	200 OK BYE (RLC)	→	+	200 OK (BYE)

TP number	TP 211 005	Reference	[1], clause 7.3.1		
	· · -= · · -= · ·		[2], clause 7.2.3.2.16		
TSS reference	SIP-I - SIP NNI/Basic call/Autonomous Release/				
Selection criteria					
Test Purpose name	Call is released to due parameter compatibility instruction 'Release call' received in the early dialogue				
Test Purpose	Ensure that on receipt of a CPG in the early dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP CANCEL request is sent and a Reason header field is present				
ISUP Parameter values	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 a parameter type unknown in the SUT				
Message flows	SIP NNISIP-I	MGCF	ISUP		
	INVITE (IAM)	→	→ INVITE		
	180 Ringing (ACM -free)	←	← 180 Ringing		
	183 Session Progress (CPG)	→			
	500 Server Internal Error (REL#	# 99/110) ←	→ CANCEL		
	ACK (RLC)	→	← 200 OK (CANCEL)		
			← 487 Request Terminated→ ACK		

TP number	TP_211_006	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.16		
TSS reference	SIP-I - SIP NNI/Basic call/Au	tonomous_Release/			
Selection criteria					
Test Purpose name	Call is released to due param	eter compatibility instruction 'F	Release call' received in the		
	confirmed dialogue	•			
Test Purpose		PG in the confirmed dialogue a			
		atibility instruction is set to 'rele			
		se indicator is set to value 99 of	or 110. In addition a SIP BYE		
	request is sent and a Reasor				
ISUP Parameter values		ty information: Release call ind	icator=release call		
	REL: Cause=99 or 110				
SIP Parameter values	BYE: Reason				
Comments	For an unknown parameter u	se a parameter type unknown	in the SUT		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE (IAM)	→	INVITE		
	180 Ringing (ACM - free)	←	180 Ringing		
	200 OK (INVITE) (ANM)	←	= 200 OK (INVITE)		
	ACK → ACK				
	INFO (CPG - conference →				
		established)			
	BYE (REL# 99 or 110)		BYE		
	200 OK (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	[1], clause 7.2.1
			[2], clause 7.4.2
TSS reference	PSTN-SS/COL/		
Selection criteria	NOT PICS 6.3.4/1 AND PICS 6	6.3.1/1 AND PICS 6.3.2/2	
Test Purpose name	The SUT does not invoke the 0	COLP service	
Test Purpose	Ensure that on receipt of an IN		
	service, an INVITE with encaps		
	indicator field of the Optional fo		er of the IAM to 'not
IOUR	requested'. A received connect		
ISUP Parameter values		call indicators = 'COL not requ	lested.
	ANM/CON: Connected numb		
SIP Parameter values	200 OK: P-Asserted-Identity	not present	
Comments			
Message flows	SIP-NNI	MGCF	SIP-I
	INVITE ->		INVITE (IAM)
	100 Trying ←		
	CASE A		
	CASE A		400 Dia sia a (40M face)
	180 Ringing ←	←	180 Ringing (ACM - free)
	200 OK (INVITE)	←	200 OK (INVITE) (ANM)
	ACK →)	ACK
	CASE B		
	200 OK (INVITE) ←	←	200 OK (CON)
	ACK →	→	ACK
		Apply post test routine	

TP number	TP_302_002	Reference	[1], clause 7.2.1
TCC reference	PSTN-SS/COL/		[2], clause 7.4.2
TSS reference Selection criteria	PICS 6.3.4/1 AND PICS 6.3.1/	1 AND DICC 6 2 2/2	
	I .		
Test Purpose name	The SUT invokes the COLP service presentation allowed Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an		
Test Purpose	INVITE with encapsulated IAM field of the Optional forward ca connected number presentatio Connected number Nature of Address Indicator eq - 'national (significant) number 200 OK INVITE P-Asserte Add CC (of the country who signals to construct an E.1 CC NDC SN.' - 'international number' 200 OK INVITE P-Asserte Map complete Connected the URI. Prefix number with Address presentation restrictio - 'presentation allowed'	is sent and the Connected II indicators parameter of the II indicators in	Line Identity Request indicator e IAM to 'requested'. A received Connected number address x number with '+' in the format '+ construct an E.164 number in DC SN'.
ISUP Parameter values	IAM: Optional forward ANM/CON: Connected number	call indicators = 'COL not re per present	equested'
SIP Parameter values	INVITE: P-Asserted-Identity 200 OK: P-Asserted-Identity		
Comments			
Message flows	SIP NNI INVITE 100 Trying CASE A 180 Ringing 200 OK (INVITE)	«	 180 Ringing (ACM - free) 200 OK (INVITE) (ANM)
	CASE B 200 OK (INVITE) ACK	•	- 200 OK (INVITE) (CON)

TP number	TP_302_003	Reference	[1], clause 7.2.1 [2], clause 7.4.2	
TSS reference	PSTN-SS/COL/	I	I[Z], Glause 7.4.2	
Selection criteria	PICS 6.3.4/1 AND PICS 6.3.1/1 AND PICS 6.3.2/2			
Test Purpose name		DLP service presentation		
Test Purpose	Ensure that on receipt of an INVITE request ant the SUT invokes the COLP service, an			
	INVITE with encapsulated IAM is sent and the Connected Line Identity Request indicator field of the Optional forward call indicators parameter of the IAM to 'requested'. A received connected number presentation restricted is interworked Connected number Nature of Address Indicator equal to: - 'national (significant) number' 200 OK INVITE P-Asserted-Identity Add CC (of the country where the SUT is located) to Connected number address signals to construct an E.164 number in the URI. Prefix number with '+' in the format '+ CC NDC SN.' - 'international number' 200 OK INVITE P-Asserted-Identity Map complete Connected number address signals to construct an E.164 number in the URI. Prefix number with "+" in the Format '+ CC NDC SN'. Address presentation restriction indicator: - 'presentation restricted'			
ISUP Parameter values		orward call indicators = 'C	OL requested'	
SIP Parameter values	ANM/CON: Connected number present INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present Privacy: id			
Comments	•			
Message flows	SIP NNI INVITE 100 Trying	MGCF → ←	SIP-I → INVITE (IAM)	
	CASE A 180 Ringing 200 OK (INVITE) ACK CASE B	← ← →	← 180 Ringing (ACM - free)← 200 OK (INVITE) (ANM)→ ACK	
	← 200 OK (INVITE) (CON) → ACK routine			

TP number	TP_302_004	Reference	[1], clause 7.3.1 [2], clause 7.4.2	
TSS reference	PSTN-SS/COL/		IE dr	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	3.2/2		
Test Purpose name	COL request is set to 'not re	equested'		
Test Purpose	Optional Forward Call Indic received in a provisional or	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'not requested', no P-Asserted-Identity received in a provisional or successful final response is present. No connected number is sent in a 200 OK (INVITE) with encapsulated ANM or CON		
ISUP Parameter values		·		
SIP Parameter values				
Comments				
Message flows	SIP-I INVITE (IAM)	MGCF	SIP NNI → INVITE ← 100 Trying	
	CASE A 180 Ringing (ACM - free) 200 OK (INVITE) (ANM) ACK	← ← →	← 180 Ringing← 200 OK (INVITE)→ ACK	
	CASE B 200 OK (INVITE) (CON) ACK	← → Apply post test rou	← 200 OK (INVITE) → ACK	

TP number	TP 302 005	Reference	[1], clause 7.3.1		
i P number	IP_302_005	Reference	[1], clause 7.3.1 [2], clause 7.4.2		
T00	DOTAL CO/COL /		[[2], clause 7.4.2		
TSS reference		PSTN-SS/COL/			
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/2			
Test Purpose name		ed' Terminating identity receive			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Connected Line				
	Identity Request indicator in the Optional Forward Call Indicators parameter is set to				
		entity received in a provisional r	esponse is sent in the 200		
	OK (INVITE) with encapsulate				
	Coding of Connected numbe				
	Number incomplete indicat		1.0		
	•	equal to 'ISDN/Telephony (Reco	ommendation		
	ITU-T E.164 [i.1])'	_			
	Nature of Address Indicato		ntmhana MCCF ia lacatad		
		RI is equal to the CC of the cou			
		JP node is located in the same	country then set to		
	"national (significan	t) number			
	"international number"				
	Address Presentation Restricted Indicator derived from the Privacy header according				
	the mapping as described in table 6.2.2-1				
ISUP Parameter values	IAM: Optional Forward Call I				
loor rarameter values	Connected Line Identity Request = requested				
	ANM: Connected number				
	Presentation restriction Privacy_VA				
SIP Parameter values	180:	<u></u>			
	P-Asserted-Identity				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	NVITE		
	,	•	► 100 Trying		
	180 Ringing (ACM)	+	180 Ringing		
			200 OK (INVITE)		
	ACK → ACK				
	Apply post test routine				
	<u> </u>	pp// poor toot routino			

	P_302_006	Reference	[1], clause 7.3.1		
TCC reference			[2], clause 7.4.2		
TSS reference	PSTN-SS/COL/				
	ICS 6.3.1/1 AND PICS 6.3.2	/2			
		ed' Terminating identity received	d in a 200 OK response		
	Ensure that on receipt of an INVITE with encapsulated IAM and the Connected Line				
		ne Optional Forward Call Indicat			
re	'requested', the P-Asserted-Identity received in a 200 OK response is sent in the 200 OK				
	sponse with encapsulated A				
Co	oding of Connected number				
	Number incomplete indica				
		equal to 'ISDN/Telephony (Reco	ommendation		
	ITU-T E.164 [i.1])'				
	Nature of Address Indicate				
		IRI is equal to the CC of the cou			
	AND the next BICC/ISUP node is located in the same country then set to				
	"national (significant) number"				
	else set to				
	"international number"				
	Address Presentation Restricted Indicator derived from the Privacy header according				
ISUP Parameter values IA	the mapping as described in table 6.2.2-1 IAM: Optional Forward Call Indicators				
150P Parameter values IA					
	Connected Line Identity Request = requested ANM: Connected number				
^"	Presentation restric	etion Privacy VA			
SIP Parameter values 20	00:	CHOIT TIVACY_VA			
on randineter values	P-Asserted-Identity				
Comments	1 7 tooditod radiiaty				
Message flows	SIP-I	MGCF	SIP NNI		
	IVITE (IAM)	→	INVITE		
	,	•	► 100 Trying		
18	30 Ringing (ACM - free)	+ +	180 Ringing		
	00 OK (INVÎTE) (ANM)	+ +	0 0		
	ACK → ACK				
	Apply post test routine				

TP number	TP_302_007	Reference	[1], clause 7.3.1		
			[2], clause 7.4.2		
TSS reference		PSTN-SS/COL/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/				
Test Purpose name	COL request is set to requeste	d Terminating identity receive	d in a 200 OK response		
Test Purpose	ITU-T E.164 [i.1])' Nature of Address Indicato If CC encoded in the UI AND the next BICC/ISU "national (significan else set to "international numbe	e Optional Forward Call Indicasponse was received the P-Ase 200 OK with encapsulated C reparameter or equal to 'Complete' equal to 'ISDN/Telephony (Recor RI is equal to the CC of the code JP node is located in the same to number"	ators parameter is set to serted-Identity received in a ON commendation untry where MGCF is located a country then set to		
ISUP Parameter values	IAM: Optional Forward Call Indicators Connected Line Identity Request = requested CON: Connected number Presentation restriction Privacy_VA				
SIP Parameter values	200:				
	P-Asserted-Identity				
Comments					
Message flows	200 OK (INVITE) (CON)	MGCF → ← ← → →	SIP NNI INVITE 100 Trying 200 OK (INVITE) ACK		

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

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

6.2.3 Malicious call identification

TP number	TP_303_001	Reference	[1], clause 7.2.1 [2], clause 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	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←		
	CASE A	← →	183 Session Progress (IDR) INFO (IRS)
	CASE B	←	183 Session Progress (IDR) No response
		Apply post test routine	

TP number	TP 303 002	Reference	[1], clause 7.3.1
ir number	1F_303_002	Reference	<u>-</u>
			[2], clause 7.4.4
TSS reference	PSTN-SS/MCID/		
Selection criteria	PICS 6.3.1/1 AND PICS	S 6.3.2/3	
Test Purpose name	MCID request after AC	M	
Test Purpose	Ensure that a MCID red	quest after an ACM receive	ed in an ISUP IDR is discarded without
-		ocedure. The sending of a	
ISUP Parameter values			•
SIP Parameter values			
Comments			
Message flows	SIP SIP-I	MGCF	SIP NNI
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	,
	180 Ringing	←	← 180 Ringing (ACM)
	CASE A	-	← 183 Session Progress (IDR)
	CASE A		3 ()
			→ INFO (IRS)
	0405 5		400 Oi D (IDD)
	CASE B		← 183 Session Progress (IDR)
			No response
		Apply post tes	t routine

6.2.4 Subaddressing (SUB)

TP number	TP_304_001	Reference	[1], clause 7.2.1	
			[2], clause 7.4.5.2	
TSS reference	PSTN-SS/SUB/			
Selection criteria	PICS 6.3.2/4			
Test Purpose name	isub parameter in the To heade	er is mapped into Called party	Subaddress	
Test Purpose	Ensure that on receipt of an initial INVITE request, an INVITE with encapsulated IAM is sent. The isub parameter present in the To header is mapped into the Called party Subaddress covered in an Access Transport parameter in the sent IAM. If the isubencoding parameter is present, the values 'nsap-ia5', 'nsap-bcd' or 'nsap' are relevant for mapping			
	Encoding of the Subaddress in	the IAIVI:		
	Type of Subaddress='NSAP'	. 41		
IOUD Developed	Subaddress digits derived from	the uric of the isub paramete	Γ	
ISUP Parameter values	IAM: Access Transport			
	Called party subaddress			
	Type of Subaddress=NSAP Subaddress digits derived from the uric of the isub parameter			
SIP Parameter values	INVITE: To:	is derived from the unc of the	isub parameter	
SIF Farailleter values				
	isub uric Subaddress digits			
		g: Not present		
	Isub-ericodin	nsap-ia5		
		nsap-bcd		
		nsap		
Comments		поар		
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -		INVITE (IAM)	
	100 Trying			
	Apply post test routine			
	Apply post test routile			

TP number	TP 304 002	Reference	[1], clause 7.2.1			
			[2], clause 7.4.5.2			
TSS reference	PSTN-SS/SUB/					
Selection criteria	PICS 6.3.2/4					
Test Purpose name	isub parameter in the	To header is not mapped				
Test Purpose	Ensure that on receipt	of an initial INVITE request, a	an INVITE with encapsulated IAM is			
			s not mapped into the Called party			
	Subaddress if the valu	e of the isub-encoding parar	meter is other than 'nsap-ia5',			
	'nsap-bcd' or 'nsap'					
ISUP Parameter values						
SIP Parameter values	INVITE: To:					
	isub					
	uric	uric Subaddress digits				
	isub-	encoding: <any token=""></any>				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	→	→ INVITE (IAM)			
	100 Trying	←	• •			
	Apply post test routine					

TP number	TP 304 003	Reference	[1], clause 7.2.1		
	00000		[2], clause 7.4.5.2		
TSS reference	PSTN-SS/SUB/		1[-],		
Selection criteria	PICS 6.3.2/4				
Test Purpose name	isub parameter in the P-Asserte	ed-Identity header is mapped i	nto Calling party Subaddress		
Test Purpose	Ensure that on receipt of an initial INVITE request, an INVITE with encapsulated IAM is sent. The isub parameter present in the P-Asserted-Identity header is mapped into the Calling party Subaddress covered in an Access Transport parameter in the sent IAM. If the isub-encoding parameter is present, the values 'nsap-ia5', 'nsap-bcd' or 'nsap' are relevant for mapping Encoding of the Subaddress:				
	Type of Subaddress='NSAP'				
	Subaddress digits derived from the uric of the isub parameter				
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-Identity:				
	isub				
	uric Subaddr				
	isub-encoding	g: Not present			
	nsap-ia5				
	nsap-bcd				
	nsap				
Comments					
Message flows	SIP NNISIP-I	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

TP number	TP 304 004	Reference	[1], clause 7.2.1		
ir ildilibei	11 _304_004	Kelelelice			
			[2], clause 7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	isub parameter in the P-Asserte	ed-Identity header in the INVIT	E is not mapped		
Test Purpose	Ensure that on receipt of an init	tial INVITE request, an INVITE	with encapsulated IAM is		
	sent. The isub parameter prese				
	Calling party Subaddress if the	value of the isub-encoding pa	arameter is other than		
	'nsap-ia5', 'nsap-bcd' or 'nsap'				
ISUP Parameter values					
SIP Parameter values	INVITE: P-Asserted-Identity:				
	isub				
	uric Subaddress digits				
	isub-encoding: <any token=""></any>				
Comments		,			
Message flows	SIP NNISIP-I	MGCF	SIP-I		
	INVITE ->	→	INVITE (IAM)		
	100 Trying ←		,		
	Apply post test routine				

TP number	TP_304_005	Reference	[1], clause 7.2.1		
			[2], clause 7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Connected party Subaddress i P-Asserted-Identity header in t		isub parameter in the		
Test Purpose	Ensure that on receipt of a 200 OK with encapsulated ANM message containing a Connected party Subaddress parameter in an Access Transport parameter, a 200 OK (INVITE) is sent and the P-Asserted-Identity header contains an isub parameter, the uric value is derived from the Connected Subaddress digits of the Connected party subaddress digits				
ISUP Parameter values	ANM: Access Transport Connected party subaddress Type of Subaddress=NSAP Subaddress digits				
SIP Parameter values	200 OK: P-Asserted-Identity: isub uric digits derived from the Connected party Subaddress digits				
Comments		•	_		
Message flows	SIP NNI INVITE 180 Ringing 200 OK (INVITE) ACK →	*	SIP-I INVITE (IAM) 180 Ringing (ACM - free) 200 OK (INVITE) (ANM) ACK		

TP number	TP_304_006	Reference	[1], clause 7.2.1		
			[2], clause 7.4.5.2		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Connected party Suba	ddress in the ANM is not	mapped		
Test Purpose	Ensure that on receipt	of a 200 OK (INVITE) AN	M message containing a Connected party		
_	Subaddress parameter	in an Access Transport p	parameter, a 200 OK (INVITE) is sent and		
	the Connected party su	ubaddress is not mapped	if the Type of subaddress is not equal		
	'NSAP'	•			
ISUP Parameter values	ANM: Access Transpo	ort			
	Connected	party subaddress			
	Type of	Subaddress other than N	SAP		
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	180 Ringing	←	← 180 Ringing		
	(ACM - free)				
	200 OK (INVITE)	←	← 200 OK (INVITE) (ANM)		
	ACK	→	→ ACK		
	Apply post test routine				

TP number	TP_304_007	Reference	[1], clause 7.3.1		
			[2], clause 7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Mapping of Called Par INVITE	rty subaddress in the IAM into	isub parameter in the To header in the		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Called party subaddress in the Access Transport parameter, an initial INVITE is sent. The Called party subaddress is mapped into an isub parameter present in the To header in the INVITE if the Type of number of the subaddress is set to 'NSAP', the isub-encoding parameter is set to 'nsap-ia5'				
ISUP Parameter values	IAM: Access Transport Called party subaddress Type of Subaddress=NSAP Subaddress digits				
SIP Parameter values	INVITE: To: isub uric	digits derived from the Called	party Subaddress digits		
Comments					
Message flows	SIP-I INVITE (IAM)	MGCF Apply post test re	SIP NNI → INVITE ← 100 Trying outine		

TP number	TP 304 008		Reference		[1], clause 7.3.1	
					[2], clause 7.4.5.3	
TSS reference	PSTN-SS/SUB/					
Selection criteria	PICS 6.3.2/4					
Test Purpose name	No mapping of Called	l Party sub	address in the IAM			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated 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					
IOUD Developed	7.	the Type of number of the subaddress is not equal to 'NSAP'				
ISUP Parameter values	IAM: Access Transport Called party subaddress Type of Subaddress not NSAP Subaddress digits					
SIP Parameter values		<u> </u>				
Comments						
Message flows	SIP-I MGCF SIP NNI					
_	INVITE (IAM)	→		→	INVITE 100 Trying	
	Apply post test routine					

TP number	TP_304_009	Reference	[1], clause 7.3.1		
			[2], clause 7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Mapping of Calling Party subaction Identity header in the INVITE	ddress in the IAM into isub par	ameter in the P-Asserted-		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Calling party subaddress in the Access Transport parameter, an initial INVITE is sent. The Calling party subaddress is mapped into an isub parameter present in the P-Asserted-Identity header in the INVITE if the Type of number of the subaddress is 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	SIP-I INVITE (IAM) →	MGCF →	SIP NNI INVITE 100 Trying		
	Apply post test routine				

TP number	TP 304 010	I	Reference		[1], clause 7.3.1
					[2], clause 7.4.5.3
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	No mapping of Callin	g Party sub	address in the IAM		
Test Purpose					containing a Calling party
					/ITE is sent. The Calling party
					the P-Asserted-Identity
	header in the INVITE	if the Type	of number of the s	ubaddres	s is not equal to 'NSAP'
ISUP Parameter values	IAM: Access Transport				
	Calling party subaddress				
	Type of Subaddress not NSAP				
	Subaddress digits				
SIP Parameter values					
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	→		→	INVITE
	, ,			←	100 Trying
	Apply post test routine				

TP number	TP_304_011	Reference	[1], clause 7.3.1		
			[2], clause 7.4.5.3		
TSS reference	PSTN-SS/SUB/				
Selection criteria	PICS 6.3.2/4				
Test Purpose name	Mapping of isub parameter in t	ne 200 OK into the Connected	party subaddress in the ANM		
Test Purpose	Ensure that on receipt of an isu				
	(INVITE), a 200 OK (INVITE) w				
	is mapped in the Connected pa				
	in the ANM. If the isub-encodin		lues 'nsap-ia5', 'nsap-bcd' or		
	'nsap' are relevant for mapping				
ISUP Parameter values	ANM: Access Transport				
	Connected party sub				
	Type of Subaddr				
	Subaddress digits derived from the uric of the isub parameter				
SIP Parameter values	200 OK: P-Asserted-Identity:				
	isub				
	uric Subaddress digits				
	isub-encoding: Not present				
	nsap-ia5				
	nsap-bcd				
0		nsap			
Comments	CID I	МООБ	OID NINII		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	INVITE		
	180 Ringing ←	←	180 Ringing		
	(ACM - free)				
	200 OK (INVITE) ← 200 OK (INVITE)				
	(ANM)	_	A 01/		
	ACK → ACK				
		Apply post test routine			

TP number	TP 304 012	Reference	[1], clause 7.3.1			
			[2], clause 7.4.5.3			
TSS reference	PSTN-SS/SUB/	·				
Selection criteria	PICS 6.3.2/4					
Test Purpose name	Mapping of isub parar	neter in the 200 OK into the C	onnected party subaddress in the ANM			
Test Purpose	(INVITE), an ANM is s	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-				
			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-bcd, nsap					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	180 Ringing (ACM)	←	← 180 Ringing			
	200 OK (INVITE) (ANM)	←	← 200 OK (INVITE)			
	ACK	→	→ ACK			
	Apply post test routine					

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

Table 6.2.5-1: Void

Table 6.2.5-2: Void

Table 6.2.5-3: Void

Table 6.2.5-4: Void

Table 6.2.5-5: Void

Table 6.2.5-6: Void

Table 6.2.5-7: Void

Table 6.2.5-8: Void

Table 6.2.5-9: Void

Table 6.2.5-10: Void

Table 6.2.5-11: Void

Table 6.2.5-12: Void

Table 6.2.5-13: Void

Table 6.2.5-14: Void

Table 6.2.5-15: Void

Table 6.2.5-16: Void

Table 6.2.5-17: Void

Table 6.2.5-18: Void

Table 6.2.5-19: Void

Table 6.2.5-20: Void

Table 6.2.5-21: Void

Table 6.2.5-22: Void

Table 6.2.5-23: Void

Table 6.2.5-24: Void

Table 6.2.5-25: Void

Table 6.2.5-26: Void

Table 6.2.5-27: Void

Table 6.2.5-28: Void

Table 6.2.5-29: Void

Table 6.2.5-30: Void

Table 6.2.5-31: Void

Table 6.2.5-32: Void

Table 6.2.5-33: Void

Table 6.2.5-34: Void

Table 6.2.5-35: Void

Table 6.2.5-36: Void

Table 6.2.5-37: Void

Table 6.2.5-38: Void

Table 6.2.5-39: Void

Table 6.2.5-40: Void

Table 6.2.5-41: Void

TP number	TP 305 065	Reference	[1], clause 7.3.1		
			[2], clause 7.4.6.1		
TSS reference	PSTN-SS/CDIV/				
Selection criteria	NOT PICS 6.3.2/5				
Test Purpose name	No mapping of Redire	ecting number, Original called r	number and Redirection Information		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number parameter, an Original called number and a Redirection Information parameter Redirecting reason indicator is set to REAS_value as indicated in table 6.2.5-42, an INVITE request is sent and no History-Info header is present. The call setup is not disrupted				
ISUP Parameter values	IAM: Redirecting nu Redirection Inf Redirecting Original called	formation g reason = REAS_value			
SIP Parameter values					
Comments			,		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	Apply post test routine				

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

VA	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	[1], clause 7.2.1
			[2], clauses 7.4.6.3.3,
			table 7.4.6.3.3.1,
			table 7.4.6.3.3.3
TSS reference	PSTN-SS/CDIV/		<u>.</u>
Selection criteria	NOT PICS 6.3.2/5		
Test Purpose name	No mapping of ACM Redi	rection number and Call	diversion information
Test Purpose	Ensure that on receipt of a	a 180 Ringing with encap	sulated ACM a Redirection number and
			n is set to REAS_value as indicated in
			ersion occurred, a 180 Ringing is sent
	and no History-Info heade		up is not disrupted
ISUP Parameter values	ACM/CPG: Generic notific	cation=call is diverting	
	Redirection nur	mber	
	Call diversion in	nformation	
	Redirecting	reason =REAS_value	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	CASE A		
	180 Ringing	←	← 180 Ringing (ACM)
	181 Being forwarded	←	← 183 Session Progress (CPG)
			3 (,
	CASE B		
	181 Being forwarded	←	← 183 Session Progress (ACM)
		Apply post test	• ,

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	[1], clause 7.2.1 [2], clause 7.4.8
TSS reference	PSTN-SS/ECT/		[2], sidder 1:110
Selection criteria	PICS 6.3.2/6		
Test Purpose name	A session is retrieved when a r	otification 'call transfer, active	' in a reINVITE with
•	encapsulated FAC was received		
Test Purpose	I-MGCF: A session is on hold.	Ensure that on receipt of an re	INVITE with encapsulated
-	FAC message and the Generic	notification indicator is set to	'call transfer, active', a
	reINVITE is sent the a attribute		r'
ISUP Parameter values	FAC: Generic notification=tran	nsfer active	
SIP Parameter values	INVITE 2 SDP a=sendonly		
	INVITE 3 SDP a=sendrecv		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE 1 →		INVITE (IAM)
	100 Trying ←		
	180 Ringing ←	←	180 Ringing (ACM)
	200 OK (INVITE) ←	←	200 OK (INVITE) (ANM)
	ACK →	→	ACK
	INVITE 2	+	INVITE 2 (CPG(hold))
	200 OK (INVITE) →	→	, , ,,
	ACK +	←	ACK
	INVITE 3 ←	+	INFO
		_	(FAC(call transfer, active))
	200 OK (INVITE) →	→	200 OK (INFO)
	ACK ←		
		Apply post test routine	

TP number	TP_306_002	Reference	[1], clause 7.2.1			
Ti Hamber	11 _300_002	Reference	[2], clause 7.4.8			
TSS reference	PSTN-SS/ECT/					
Selection criteria	PICS 6.3.2/6					
Test Purpose name	A session is retrieved when a					
T	encapsulated FAC was received					
Test Purpose		. Ensure that on receipt of an				
	FAC message and the Gener					
	reINVITE is sent the a attribut		CV'			
ISUP Parameter values	FAC: Generic notification=tr	ansfer alerting				
SIP Parameter values	INVITE 2 SDP a=sendonly					
	INVITE 3 SDP a=sendrecv					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	[·····	→	INVITE (IAM)			
	1.00	(
	180 Ringing	+	180 Ringing (ACM)			
	200 OK (INVITE)	÷ +	200 OK (INVITE) (ANM)			
		→				
	INVITE 2	+	INVITE 2 (CPG(hold))			
	200 OK (INVITE)	→	` ` ` ,,			
	` ,	÷ +				
	INVITE 3	÷ +	INFO			
		-	(FAC(call transfer, alerting)			
	200 OK (INVITE)	→				
		(- (- /			
		Apply post test routine				

TP number	TP 306 003	Ref	erence	[1], clause 7.2.1
				[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/	•		11 3/
Selection criteria	PICS 6.3.2/6			
Test Purpose name	A session is retrieved wh	en a notifi	cation 'call transfer, a	active' in a reINVITE with
	encapsulated CPG was r			
Test Purpose				of a reINVITE with encapsulated
				set to 'call transfer, active', a
	reINVITE is sent the a att			idrecv'
ISUP Parameter values	CPG: Generic notification		active	
SIP Parameter values	INVITE 2 SDP a=sendon			
_	INVITE 3 SDP a=sendred	CV		
Comments				
Message flows	SIP NNI	_	MGCF	SIP-I
		((INVITE (IAM)
	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	→	→	100 Trying
	180 Ringing	→	→	180 Ringing (ACM)
	200 OK (INVITE)	→	→	200 OK (INVITE) (ANM)
	ACK	←	+	ACK
	INVITE 2	←	←	INVITE 2 (CPG(hold))
	200 OK (INVITE)	→	→	200 OK (INVITE)
		←	←	ACK
	INVITE 3	←	←	INFO (CPG(call transfer, active))
	200 OK (INVITE)	→	→	200 OK (INFO)
		←		,
		Α	pply post test routi	ine

TP number	TP_306_004	I	Reference	[1], clause 7.2.1
T00 (DOTAL CO/FOT/			[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6			L C L BRATE W
Test Purpose name				alerting' in a reINVITE with
			and the session is or	
Test Purpose				of a reINVITE with encapsulated
				set to 'call transfer, alerting', a
			n the SDP is set to 'se	endrecv'
ISUP Parameter values	CPG: Generic notific		sfer alerting	
SIP Parameter values	INVITE 2 SDP a=sen	,		
	INVITE 3 SDP a=sen	drecv		
Comments				
Message flows	SIP NNISIP-I		MGCF	SIP-I
	INVITE	←	←	
	100 Trying	→	→	100 Trying
	180 Ringing	→	→	180 Ringing (ACM)
	200 OK (INVITE)	→	→	200 OK (INVITE) (ANM)
	ACK	←	←	ACK
	INVITE 2	←	+	INVITE 2 (CPG(hold))
	200 OK (INVITE)	→	→	
	ACK	←	+	
	INVITE 3	←	←	INFO (CPG(call transfer, alerting))
	200 OK (INVITE)	→	→	
	ACK	É	-	200 0.1 (0)
	,	-	Apply post test rou	tine

TP number	TP 306 005	Reference	[1], clause 7.2.1
			[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/		16 42
Selection criteria	PICS 6.3.2/6		
Test Purpose name	reINVITE with encapsulated FA	C with generic notification 'cal	I transfer, active' received, no
	mapping		
Test Purpose	I-MGCF: Ensure that on receip		
	Generic notification indicator is		and the session is not on
	hold, no mapping occurs on the		
ISUP Parameter values	FAC: Generic notification=trai	nsfer active	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	INVITE (IAM)
	100 Trying	←	
	180 Ringing	+ +	180 Ringing (ACM)
	200 OK (INVITE)	+ +	200 OK (INVITE) (ANM)
	ACK	→	ACK
		←	INFO
			FAC(call transfer, active)
		→	200 OK (INVITE)
		Apply post test routine	

TP number	TP_306_006	Reference	[1], clause 7.2.1
			[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/		
Selection criteria	PICS 6.3.2/6		
Test Purpose name	FAC with generic notification 'c	all transfer, alerting' received,	no mapping
Test Purpose	I-MGCF: Ensure that on receip	t of a reINVITE with encapsula	ited FAC message and the
	Generic notification indicator is	coded as 'call transfer, alerting	g' and the session is not on
	hold, no mapping occurs on the	e SIP side	
ISUP Parameter values	FAC: Generic notification=tra	nsfer alerting	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	INVITE (IAM)
	100 Trying	+ +	100 Trying
	180 Ringing	+ +	180 Ringing (ACM)
	200 OK (INVITE)	+ +	200 OK (INVITE) (ANM)
	ACK	→ →	ACK
		←	INFO
		→	FAC(call transfer, alerting) 200 OK (INVITE)
			200 01 (1144112)
		Apply post test routine	

TP number	TP_306_007		Reference	[1], clause 7.2.1	
				[2], clause 7.4.8	
TSS reference	PSTN-SS/ECT/				
Selection criteria	PICS 6.3.2/6				
Test Purpose name	reINVITE with encap	sulated CF	G with generic notificati	on 'call transfer, active' received, no	
	mapping				
Test Purpose	I-MGCF: Ensure that	on receipt	of a reINVITE with enca	apsulated CPG message and the	
	Generic notification in	ndicator is	coded as 'call transfer, a	active' and the session is not on	
	hold, no mapping occ	curs on the	SIP side		
ISUP Parameter values	CPG: Generic notific	CPG: Generic notification=transfer active			
SIP Parameter values					
Comments					
Message flows	SIP NNI		MGCF	SIP-I	
	INVITE	→	→	IAM	
	100 Trying	←	←	100 Trying	
	180 Ringing	(+	180 Ringing (ACM)	
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)	
			←	INFO	
			→	(CPG(call transfer, active)) 200 OK (INVITE)	
	Apply post test routine				

TP number	TP_306_008	Referenc	е	[1], clause 7.2.1
	2021 00 (202)			[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6			
Test Purpose name	reINVITE with encap	sulated CPG with ge	neric notificati	on 'call transfer, alerting' received,
	no mapping			
Test Purpose	I-MGCF: Ensure that	on receipt of a reIN\	/ITE with enca	apsulated CPG message and the
				alerting' and the session is not on
	hold, no mapping occ		•	3
ISUP Parameter values		CPG: Generic notification=transfer alerting		
SIP Parameter values			<u> </u>	
Comments				
Message flows	SIP NNI	MGC	F	SIP-I
ooageoo	INVITE	→	 →	INVITE (IAM)
	100 Trying	(-	100 Trying
	180 Ringing	÷	÷	ACM (180 Ringing)
	100 Kinging	•	•	ACW (100 Kinging)
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)
	ACK	÷	÷	ACK
	ACK	7	7	ACK
			←	INFO (CPG(call transfer, alerting))
			→	200 OK (INVITE)
		A 1		
	Apply post test routine			

6.2.7 Void

6.2.8 Call Hold

TP number	TP_308_001	Reference	[1], clause 7.2.1		
T00	DOTAL COULDING		[2], clause 7.4.10		
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.2/9	# 1011B/01B I			
Test Purpose name	Hold and Retrieve requested from the ISUP/SIP-I				
Test Purpose	Ensure that on receipt of an INVITE or UPDATE with encapsulated CPG message and the Generic notification is set to 'Remote hold' in the confirmed dialogue, an INVITE or				
	UPDATE is sent. The media st	emote nota in the confirmed at	lalogue, an INVITE or		
	Ensure that on receipt of a CPC				
	retrieval', an INVITE or UPDAT				
ISUP Parameter values	CPG: Generic notification	L 13 3CHL THE HICGIA STEATH II	Title ODI 13 Set to Selidicev		
loor rarameter values	Remote hold				
	Remote retrieval				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendor	nly			
	SDP 2				
	a=sendre	cv			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
		stablish a confirmed dialogu	ie		
	CASE A				
	INVITE(SDP 1 = sendonly)	←	← INVITE (SDP 1 =		
		_	sendonly) (CPG(hold))		
	200 OK (INVITE)	→	→ 200 OK (INVITE)		
	ACK	←	← ACK		
	CASE B	_	6 UDDATE (ODD 4		
	UPDATE(SDP 1 = sendonly)	←	← UPDATE (SDP 1 =		
	OOO OK (LIDDATE)	_	sendonly) (CPG(hold))		
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)		
	CASE A				
	CASE A	←	← INVITE(SDP 2 =)		
	INVITE(SDP 2 = sendrecv)	•	INVITE(SDP 2 = sendrecv)		
			CPG(retrieve)		
			or o(retrieve)		
	200 OK (INVITE)	→	→ 200 OK (INVITE)		
	ACK	-	← ACK		
	CASE B				
	UPDATE(SDP 2 = sendrecv)	←	← UPDATE (SDP 2 =		
	, , ,		sendrecv)		
			CPG(retrieve)		
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)		
		Apply post test routine	•		

TP number	TP_308_002	Reference	[1], clause 7.2.1
			[2], clause 7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.2/9		
Test Purpose name	Hold and Retrieve requested f		
Test Purpose	stream in the SDP is set to 'se the Generic notification indicate	IVITE request in the confirmed andonly', a INVITE with encaps for is set to 'remote hold' IVITE request in the confirmed	ulated CPG message is sent
		ndrecv', a CPG message is se	
	indicator is set to 'remote retrie		The art of the mean of the mea
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	SIP NNI	MGCF	SIP-I
		stablish a confirmed dialogu	ie .
	INVITE(sendonly)	→	INVITE(sendonly) (CPG(hold))
	200 OK (INVITE)	- ←	200 OK (INVITE)
	ACK -	→	ACK
	INVITE(sendrecv)	>	INVITE(sendrecv) (CPG(retrieve))
	200 OK (INVITE)		200 OK (INVITE)
	ACK -	→	ACK
		Apply post test routine	

TP number	TP 308 003	Reference		[1], clause 7.2.1	
	11 _000_000	Reference		[2], clause 7.4.10	
TSS reference	PSTN-SS/HOLD/			[2], olados 7.1.10	
Selection criteria	PICS 6.3.2/9				
Test Purpose name	Hold and Retrieve request	ed from SIP in UPDATE red	quest		
Test Purpose		n UPDATE request in the c		ed dialogue and the media	
_	stream in the SDP is set to	'sendonly', a ÜPDATE with	n encap	osulated CPG message is sent	
	the Generic notification inc	licator is set to 'remote hold'	'		
		n UPDATE request in the c			
		o 'sendrecv', a CPG messag	je is se	nt the Generic notification	
	indicator is set to 'remote r				
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
	Remote retrieva	NI			
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=se SDP 2	ndonly			
		ndrecv			
Comments	a-se	ndiecv			
Message flows	SIP NNI	MGCF		SIP-I	
eeeage nene	J. 1	Establish a confirmed of	noolsib	* · · ·	
	UPDATE(sendonly)	→	→	UPDATE(sendonly) (CPG(hold))	
	200 OK (UPDATE)	←	←	. , , , , ,	
	ACK → ACK				
	UPDATE(sendrecv)	→	→	UPDATE(sendrecv) (CPG(retrieve))	
	200 OK (UPDATE)	←	←	200 OK (UPDÄTE)	
	ACK	→	→	ACK	
		Apply post test rou	itine		

TP number	TP 308 004	Reference	[1], clause 7.2.1
Ti Humber	11 _500_004	Kelefelice	[2], clause 7.4.10
TSS reference	PSTN-SS/HOLD/		[[2], Glade 7.4.10
Selection criteria	PICS 6.3.2/9		
Test Purpose name	Hold requested from both ends	s session inactive sent	
Test Purpose		TITE with encapsulated CPG me	essage and the Generic
Tool I diposo	notification indicator is set to 're		
	INVITE or UPDATE request is		
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1		
	a=sendor	nly	
	SDP 2	•	
	a=inactive	e	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
		stablish a confirmed dialogue	
	INVITE(SDP 1 = sendonly)	→	→ CPG(hold)
	200 OK (INVITE)	←	← 200 OK (INVITE)
	ACK	→	→ ACK
	CASE A		
	INVITE(SDP 2 = inactive)	←	← INVITE(SDP 2 =
			inactive)
		_	(CPG(hold))
	200 OK (INVITE)	→	→ 200 OK (INVITE)
	ACK	←	← ACK
	0.000		
	CASE B		4 UDDATE(0DD 0
	UPDATE(SDP 2 = inactive)	←	← UPDATE(SDP 2 = (SDP (1 + 1)))
	OOO OK (UDDATE)	•	inactive) (CPG(hold))
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)
		Apply post test routine	

TP number	TP 308 005	Reference	[1], clause 7.2.1
			[2], clause 7.4.10
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.2/9		
Test Purpose name	Hold requested from both ends	, session inactive received	
Test Purpose	The session is already set on h	old. Ensure that on receipt of a	an INVITE request and the
	media stream in the SDP is set	to 'inactive', a INVITE with end	capsulated CPG message is
	sent and the Notification indica	tor is set to 'remote hold'	
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1		
	a=sendor	nly	
	SDP 2		
	a=inactive	e	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
		stablish a confirmed dialogue	e
	CASE A	_	
	INVITE(SDP 1 = sendonly)	←	← INVITE(SDP 1 =
		_	sendonly) (CPG(hold))
	200 OK (INVITE)	→	→ 200 OK (INVITE)
	ACK	(← ACK
	CASE B		
	UPDATE(SDP 1 = sendonly)	←	← UPDATE(SDP 1 =
	OFDATE(SDF 1 = Selfdolliy)		sendonly) (CPG(hold))
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)
		•	2 200 011 (01 01112)
	INVITE(SDP 2 = inactive)	→	→ INVITE(SDP 2 =
			inactive) (CPG(hold))
	200 OK (INVITE)	←	€ 200 OK (INVITE)
	ACK	→	→ ACK
		Apply post test routine	

TP number	TP_308_006	Reference		lause 7.2.1 lause 7.4.10		
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.2/9					
Test Purpose name	First hold from SIP. Session	inactive, Retrieve requeste	d from SIP			
Test Purpose	The session is set on hold at receipt of an INVITE request or UPDATE with encapsulate is set to 'remote retrieval'	and the media stream in th	e SDP is se	et to 'recvonly', a INVITE		
ISUP Parameter values	CPG 1: Generic notification	n				
	Remote hold CPG 2: Generic notification Remote retriev					
SIP Parameter values	INVITE/UPDATE:SDP 1 a=send	lonly				
	SDP 2					
	a=inact	ive				
	SDP 3					
Comments	a=recv	oniy				
Message flows	SIP NNI	MGCF		SIP-I		
Wessage nows	SIF ININI	Establish a confirmed dia	alogue	SIF-I		
	INVITE(SDP 1 = sendonly)	÷	alogue →	INVITE(SDP 1 = sendonly) (CPG 1 (hold))		
	200 OK (INVITE)	←	←	200 OK (INVITE)		
	ACK ,	→		ACK		
	CASE A					
	INVITE(SDP 2 = inactive)	←	←	INVITE(SDP 2 = inactive) (CPG 1 (hold))		
	200 OK (INVITE) ACK	→ ←	→	200 OK (INVITE) ACK		
	CASE B UPDATE(SDP 2 = inactive)	←	←	UPDATE(SDP 2 = inactive)		
	200 OK (UPDATE)	→	→	(CPG 1 (hold)) 200 OK (UPDATE)		
	INVITE(SDP 3 = recvonly)	→	→	INVITE(SDP 3 = recvonly) (CPG 2 (retrieve))		
	200 OK (INVITE)	←	←	200 OK (INVITE)		
	ACK	→	→	ACK		
		Apply post test routing	ne			

TP number	TP 308 007	Reference	[1], clause	7 2 1			
i P number	1P_306_007	Reference	[2], clause				
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.2/9						
Test Purpose name	First hold from SIP. Session inactive, Retrieve requested from ISUP						
Test Purpose	The session is set on hold at first from SIP as well as second from SIP-I. Ensure that on receipt of an INVITE or UPDATE with encapsulated CPG message and the Generic notification indicator is set to 'remote retrieval', an INVITE or UPDATE request is sent and						
-							
	the media stream in the SDP I	set to 'recvonly'					
ISUP Parameter values	CPG: Generic notification						
	Remote hold						
SIP Parameter values	INVITE/UPDATE:SDP 1						
	a=sendo	nly					
	SDP 2						
	a=inactiv	re					
	SDP 3						
	a=recvor	nly					
Comments							
Message flows	SIP NNI	MGCF		SIP-I			
		stablish a confirmed					
	INVITE(SDP 1 = sendonly)	→		ΓΕ(SDP 1 =			
			send				
		-		G(hold))			
	200 OK (INVITE)	(OK (INVITE)			
	ACK	→	→ ACK				
	CASE A	_					
	INVITE(SDP 2 = inactive)	←		ΓE(SDP 2 =			
		_		ive)CPG(hold)			
	200 OK (INVITE)	→		OK (INVITE)			
	ACK	←	← ACK				
	CASE B	_					
	UPDATE(SDP 2 = inactive)	←		ATE(SDP 2 =			
			inacti				
	000 014 (LIDDATE)	_		G(hold))			
	200 OK (UPDATE)	→	→ (UPD	ATE)			
	0405.0						
	CASE C		√ INI\ /17	FE/ODD 0			
	INVITE(SDP 3 = recvonly)	←		ΓE(SDP 3 =			
			recvo				
	200 OK (INI) (ITE)	_		G(retrieve))			
	200 OK (INVITE)	→	→ 200 (← ACK	OK (INVITE)			
	ACK	~	▼ ACK				
	CASE D						
		←	∠ unn	ATE/ODD 2 -			
	UPDATE(SDP 3 = recvonly)	~		ATE(SDP 3 =			
			recvo	G(retrieve))			
	200 OK (UPDATE)	→		OK (UPDATE)			
	200 OK (OI DATE)			JI (OI DATE)			
		Apply post test rou	atinite				

TP number	TP_308_008	Reference	[1], clause 7.2.1			
			[2], clause 7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.2/9					
Test Purpose name	First hold from ISUP. Session					
Test Purpose	The session is set on hold at fi					
			DP is set to 'recvonly', a INVITE			
		CPG message is sent and the	ne Generic notification indicator			
	is set to 'remote retrieval'					
ISUP Parameter values	CPG: Generic notification					
	Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendor	nly				
	SDP 2					
	a=inactiv	e				
	SDP 3	h.,				
	a=recvon	ııy				
Comments	SIP NNI	MGCF	SIP-I			
Message flows	_		_			
	CASE A	stablish a confirmed dialog	jue			
		←	- INIVITE/CDD 4 -			
	INVITE(SDP 1 = sendonly)	•	← INVITE(SDP 1 = sendonly) (CPG(hold))			
	200 OK (INVITE)	→	→ 200 OK (INVITE)			
	ACK	É	← ACK			
	AON	•	AON			
	CASE B					
	UPDATE(SDP 1 = sendonly)	←	← UPDATE(SDP 1 = sendonly) (CPG(hold))			
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)			
	INVITE(SDP 2 = inactive)	→	→ INVITE(SDP 2 = inactive) (CPG(hold))			
	200 OK (INVITE)	←	← 200 OK (INVITE)			
	ACK	•	→ ACK			
	AOR	•	Z			
	INVITE(SDP 3 = recvonly)	→	→ INVITE(SDP 3 = recvonly) (CPG(retrieve))			
	200 OK (INVITE)	←	← 200 OK (INVITE)			
	ACK	• →	→ ACK			
	,	Apply post test routine	2 7.01.			
		what have rear ranging				

TP number	TP_308_009	Reference	[1], clause 7.2.1			
TCC reference	PSTN-SS/HOLD/		[2], clause 7.4.10			
TSS reference Selection criteria	PICS 6.3.2/9					
Test Purpose name	First hold from ISUP. Session inactive, Retrieve requested from ISUP					
Test Purpose	The session is set on hold at first from ISUP as well as second from SIP. Ensure that on					
10011 011	receipt of a CPG message and the Generic notification indicator is set to 'remote retrieval',					
	an INVITE or UPDATE request is sent and the media stream in the SDP is set to 'recvonly'					
ISUP Parameter values	CPG: Generic notification Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP 1					
	a=sendor	ıly				
	SDP 2					
	a=inactiv	9				
	SDP 3	lv.				
Comments	a=recvon	ıy				
Message flows	SIP NNI	MGCF	SIP-I			
wessage nows		stablish a confirmed dialog				
	CASE A		,uo			
	INVITE(SDP 1 = sendonly)	←	← INVITE(SDP 1 =			
	, , , , , , , , , , , , , , , , , , , ,		sendonÌy)			
			(CPG(hold))			
	200 OK (INVITE)	→	→ 200 OK (INVITE)			
	ACK	←	← ACK			
	CASE B	_				
	UPDATE(SDP 1 = sendonly)	←	← UPDATE(SDP 1 =			
			sendonly) (CPG(hold))			
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)			
	200 OK (OF BATE)		2 200 OK (OI DATE)			
	INVITE(SDP 2 = inactive)	→	→ INVITE(SDP 2 =			
	,		inactive)			
			(CPG(hold))			
	200 OK (INVITE)	←	← 200 OK (INVITE)			
	ACK	→	→ ACK			
	CASE C	_	7			
	INVITE(SDP 3 = recvonly)	←	← INVITE(SDP 3 =			
			recvonly) (CPG(retrieve))			
	200 OK (INVITE)	→	→ 200 OK (INVITE)			
	ACK	É	← ACK			
	CASE D					
	UPDATE(SDP 3 = recvonly)	←	← UPDATE			
			(SDP 3 = recvonly)			
		_	(CPG(retrieve))			
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)			
		Apply post test routine				

TP number	TP_308_010	Reference	[1], clause 7.3.1	
Tr Humber	11 _300_010	Kelerence	[2], clause 7.4.10.2	
TSS reference	PSTN-SS/HOLD/	1	[[2], GladSC 1.4.10.2	
Selection criteria	PICS 6.3.2/9 AND PICS 6.3.6/	1		
Test Purpose name			UPDATE is sent in early dialogue	
Test Purpose			ric notification indicator is set to	
restruipess			UPDATE request indicating the	
			ng a 180 Ringing is established.	
	The media stream in the SDP			
ISUP Parameter values	CPG: Generic notification	,		
	Remote hold			
SIP Parameter values	UPDATE: SDP			
	a=sendonly			
Comments	A CPG is received after an AC	M was sent		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
	UPDATE (SDP 1 = →			
	sendonly)			
	(CPG(hold))			
	200 OK (UPDATE) ←	_		
	180 Ringing ←	+	180 Ringing	
	(CPG- alerting)	•	LIDDATE(L L)	
		→	UPDATE(sendonly)	
		←	200 OK (UPDATE)	
		Apply post tost revitir		
	Apply post test routine			

TP number	TP_308_011		Reference		[1], clause 7.3.1
TCC voterence	DOTAL COULDI DI				[2], clause 7.4.10.2
TSS reference	PSTN-SS/HOLD/	20001	4		
Selection criteria	PICS 6.3.2/9 AND PICS				
Test Purpose name		ore an c	lialogue was estab	lished	UPDATE is sent in confirmed
	dialogue				
Test Purpose					CPG message and the Generic
					rly dialogue is established, the
					on is sent after the confirmed
				lished	. The media stream in the SDP is
	set to sendonly indicatir		old state		
ISUP Parameter values	CPG: Generic notificat				
	Remote hold				
SIP Parameter values	INVITE/UPDATE:SDP				
	a=	sendor	nly		
Comments					
Message flows	ISIP-I		MGCF		SIP NNI
	INVITE (IAM)	→		→	INVITE
	100 Trying	←		←	100 Trying
	UPDATE (CPG(hold))	→			
	200 OK (UPDATE)	←			
	,				
	200 OK (INVITE)	←		←	200 OK (INVITE)
	(CON)				,
	ACK	→			
	CASE A	-			
	OAGE A			→	INVITE(sendonly)
				É	200 OK (INVITE)
				→	ACK
	CASE B			7	ACK
	CASE D			→	LIDDATE (condonly)
				→	UPDATE(sendonly)
			A le	_	200 OK (UPDATE)
			Apply post tes	t routi	ne

TP number	TP_308_012	Reference	[1], clause 7.3.1				
			[2], clause 7.4.10.2				
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.2/9 AND PICS	6.3.6/1					
Test Purpose name	Update with encapsulate UPDATE is sent on the la		er several early dialogues was established logue				
Test Purpose		Seneric notification indica	on receipt of a INFO with encapsulated ator is set to 'remote hold', an UPDATE logue				
ISUP Parameter values	CPG: Generic notification Remote hold	on					
SIP Parameter values		180 1: To: <appropriate uri="">; tag=1 180 1: To: <appropriate uri="">; tag=2</appropriate></appropriate>					
Comments		I-ID and the From tag are	e equal. The different dialogues can be				
Message flows	SIP-I INVITE (IAM) 180 Ringing 1 (ACM - free) UPDATE (sendonly) CPG(hold) 200 OK (UPDATE)	MGCF → ← Apply post tes	SIP NNI → INVITE ← 180 Ringing 1 ← 180 Ringing 2 → UPDATE 2 (sendonly) ← 200 OK (UPDATE)				
		Apply post tes	troutine				

TP number	TP_308_013	Reference	[1], clause 7.3.1				
i i iidilibei	11 _300_013	Kelelelice	[2], clause 7.4.10.2				
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.2/9 AND PICS 6.3.6/	1					
Test Purpose name	An UPDATE (hold) is repeated		r SDP offer answer eychange				
Test Purpose			ession was set on hold indicating				
rest ruipose	a new SDP, an UPDATE reque						
	refresh the previous held state	sst is sellt and the media s	stream is set to sendomy to				
ISUP Parameter values	CPG: Generic notification						
loor rarameter values	Remote hold						
SIP Parameter values	INVITE: SDP1						
on randictor values	UPDATE 1: SDP a=sendonly	,					
	UPDATE 2: SDP 2						
Comments	0. 27.1. 2 2. 32. 2						
Message flows	SIP-I	MGCF	SIP NNI				
	INVITE(SDP1) (IAM) →	→	INVITE(SDP1)				
	180 Ringing ←	←	180 Ringing				
	(ACM - free)						
	UPDATE 1 (sendonly) →	→	UPDATE 1 (sendonly)				
	CPG(hold)		,				
	200 OK (UPDATE) ←	←	200 OK (UPDATE)				
	,						
	UPDATE 2 (SDP2) ←	←	UPDATE 2 (SDP2)				
	CPG(hold)						
	200 OK (UPDATE) →	→	200 OK (UPDATE)				
	UPDATE 1 (sendonly) →	→	UPDATE 1 (sendonly)				
	CPG(retrieve)						
	200 OK (UPDATE) ←	←	200 OK (UPDATE)				
		Apply post test routing	ie				

TP number	TP 308 014		Reference		[1], clause 7.3.1			
Ti Halliber	11 _000_014		Kelelelle		[2], clause 7.4.10.2			
TSS reference	PSTN-SS/HOLD/				[[-], o.c.o.o			
Selection criteria	PICS 6.3.2/9 AND PICS	PICS 6.3.2/9 AND PICS 6.3.6/1						
Test Purpose name	An UPDATE (hold) is ser	nt after	an additional early diale	ogue is	established			
Test Purpose					on receipt of a 180 Ringing			
			an UPDATE request is	sent o	n this dialogue and the media			
	stream is set to 'sendonly	/'						
ISUP Parameter values	CPG: Generic notification	n						
	Remote hold							
SIP Parameter values	180 1: To: <appropriate t<="" th=""><th></th><th></th><th></th><th></th></appropriate>							
	180 1: To: <appropriate l<="" th=""><th>URI>; t</th><th>tag=2</th><th></th><th></th></appropriate>	URI>; t	tag=2					
	UPDATE 2: To: <appro< th=""><th>priate</th><th>URI>; tag=2</th><th></th><th></th></appro<>	priate	URI>; tag=2					
Comments								
Message flows	SIP-I	_	MGCF		SIP NNI			
		→	→	INVI				
	100111191119	←	+	180	Ringing 1			
	(ACM - free)							
	LIDDATE ODG# LIX	_	_					
		→)		PATE 1 (sendonly)			
	200 OK (UPDATE)	←	+	200	OK (UPDATE)			
			+	180	Ringing 2			
			•	100	runging 2			
			→	UPD	ATE 2 (sendonly)			
			←		OK (UPDATE)			
			Apply post test rout		,			

TP number	TP_308_015		Reference		[1], clause 7.3.1			
					[2], clause 7.4.10.2			
TSS reference	PSTN-SS/HOLD/	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.2/9 AND PICS	PICS 6.3.2/9 AND PICS 6.3.6/1						
Test Purpose name	An INVITE or UPDATE	(hold c	ondition) is sent afte	r 200	OK INVITE was received when a			
	CPG (hold) was received							
Test Purpose					s received in the early dialogue.			
					g the confirmed dialogue, an			
		uest is	sent and the media	strea	m is set to 'sendonly' indicating the			
	held state							
ISUP Parameter values	CPG: Generic notificat							
	Remote hold							
SIP Parameter values	INVITE/UPDATE 2: SI							
		a=sen	idonly					
Comments								
Message flows	SIP-I		MGCF		SIP NNI			
	INVITE (IAM)	→		→	INVITE			
	180 Ringing	←		←	180 Ringing			
	(ACM - free)							
	LIDDATE (ODO(Is alsi))				LIDDATE (de-vile)			
	UPDATE (CPG(hold))	→		→	UPDATE(sendonly)			
	200 OK (UPDATE)	←		←	200 OK (UPDATE)			
	200 OK (INVITE)	(←	200 OK (INVITE)			
	(ANM) `				,			
	ÀCK ´	→		→	ACK			
	0.405.4				INDUITE O (
	CASE A			→	INVITE 2 (sendonly)			
				←	200 OK (INVITE)			
				7	ACK			
	CASE B			→	UPDATE 2 (sendonly)			
				←	200 OK (UPDATE)			
			Apply post test	routir	,			

TP number	TP_308_016	Reference	[1], clause 7.3.1			
			[2], clause 7.4.10			
TSS reference	PSTN-SS/HOLD/					
Selection criteria	PICS 6.3.2/9 AND PICS	6.3.6/1				
Test Purpose name			SIP user in the early dialogue			
Test Purpose	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream is set to 'sendonly' a UPDATE(sendonly) with encapsulated CPG message is sent and the Generic notification indicator is set to 'remote hold'					
	is already set on hold the	media stream is set to 'sendr	arly dialogue and the media stream ecv' in the received UPDATE, a cator is set to 'remote retrieval'			
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE IAM	→	INVITE 100 Trying			
	180 Ringing (ACM - free)	+ +	180 Ringing			
	UPDATE(sendonly) (CPG(hold))	+ +	UPDATE(sendonly)			
	200 OK (UPDATE)	→ →	200 OK (UPDATE)			
	UPDATE(sendrecv) CPG(retrieve)	+ +	UPDATE(sendrecv)			
	` ,	→ →	200 OK (UPDATE)			
	,	Apply post test rout	ine			

TP number	TP_308_017	Reference	[1], clause 7.2.1
			[2], clause 7.4.2
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.2/9 AND PICS 6.3.6/	1	
Test Purpose name	'sendonly' and 'sendrecv' receiv	ed from the originating SIP us	er in the early dialogue
Test Purpose	Ensure that on receipt of an UF	PDATE request in the early dial	ogue and the media stream
	is set to 'sendonly', a UPDATE	with encapsulated CPG messa	age is sent and the Generic
	notification indicator is set to 're	emote hold'	
	Ensure that on receipt of an UF	PDATE request in the early dial	ogue and the media stream
	is set to 'sendonly' the session	is already set on hold, a CPG r	nessage is sent and the
	Generic notification indicator is	set to 'remote retrieval'	-
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	180 Ringing ←	←	180 Ringing (ACM)
	UPDATE(sendonly) →	→	UPDATE (sendonly)
			(CPG(hold))
	200 OK (UPDATE) ←	←	200 OK (UPDATE)
	UPDATE(sendrecv) →	→	UPDATE(sendrecv)
			(CPG(retrieve))
	200 OK (UPDATE) ←	←	200 OK (UPDATE)
		Apply post test routine	

TP number	TP 308 018	Reference	[1], clause 7.3.1				
			[2], clause 7.4.10				
TSS reference	PSTN-SS/HOLD/						
Selection criteria	PICS 6.3.2/9 AND PICS 6.3.6/	1					
Test Purpose name	'hold' and 'retrieve' received fro	m the originating PSTN us	ser in the early dialogue				
Test Purpose			ric notification indicator is set to				
		jue, an UPDATE request i	s sent and the media stream is set				
	to 'sendonly'						
			ic notification indicator is set to				
			an UPDATE request is sent and				
	the media stream is set to 'sen	drecv'					
ISUP Parameter values							
SIP Parameter values							
Comments							
Message flows	SIP-I	MGCF	SIP NNI				
	INVITE (IAM) →		INVITE				
	100 Trying ←	←	100 Trying				
	180 Ringing ←	(180 Ringing				
	(ACM - free)						
	UPDATE(sendonly) →	→	UPDATE(sendonly)				
	CPG(hold)						
	200 OK (UPDATE) ←	←	200 OK (UPDATE)				
	UPDATE(sendrecv) → (CPG(retrieve))	→	UPDATE(sendrecv)				
	200 OK (UPDÄTE) ←	←	200 OK (UPDATE)				
	, ,	Apply post test routin	,				

6.2.9 Call Completion on busy subscriber

TP number	TP_309_001	Reference	[1], clause 7.2.1		
			[2], clause 7.4.11		
TSS reference	PSTN-SS/CCBS/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3	3.2/10			
Test Purpose name	The diagnostic field is not in	nterworked			
Test Purpose			7 and a diagnostic field is present set		
	to 'CCBS possible', a final SIP response 486 Busy Here is sent no indication of CCBS facility is present				
ISUP Parameter values	REL: Cause indicator CC	BS possible indicator=CC	BS possible		
SIP Parameter values					
Comments	The CCBS possible indicat	or is contained in the diag	nostic field of the Cause indicator		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	100 Trying	←	, ,		
	486 Busy Here	←	← 486 Busy Here		
		_	(REL(17))		
	ACK	→	→ ACK (RLC)		

6.2.10 Completion of Calls on No Reply (CCNR)

TP number	TP_310_001	Reference	[1], clause 7.2.1
			[2], clause 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 to 'CCNR possible', a 180 Ring		
ISUP Parameter values	ACM: BCl called party status possible		
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←		
	180 Ringing ←	←	180 Ringing (ACM - free)
		Apply post test routine	

TP number	TP 310 002	Refe	rence		[1], clause 7.2.1
					[2], clause 7.4.12
TSS reference	PSTN-SS/CCNR/				
Selection criteria	PICS 6.3.1/1 AND PIC	CS 6.3.2/11			
Test Purpose name	CCNR possible indica	ition received ir	n an CPG, discarde	ed	
Test Purpose	Ensure that on receip 'CCNR possible', a 18				ator is present the value set to CNR facility
ISUP Parameter values	ACM: BCI called part CPG: Event indicator	ty status indicat	tor=no indication, c	BCI=i	nband info available
SIP Parameter values					•
Comments					
Message flows	SIP NNI		MGCF		SIP-I
	INVITE	→		→	INVITE (IAM)
	100 Trying	←		←	100 Trying
				←	183 Session Progress
					(ACM(no indication))
	180 Ringing	←		←	180 Ringing (CPG)
		Ap	ply post test routi	ine	

6.2.11 Terminal Portability (TP)

TP number	TP_311_001	Reference	[1], clause 7.2.1
TCC reference	DOTN CO/TD/		[2], clause 7.4.13
TSS reference	PSTN-SS/TP/		
Selection criteria	PICS 6.3.2/12		
Test Purpose name	SUS user initiated is mapped in		
Test Purpose	Ensure that on receipt of an SU		
	'ISDN subscriber initiated', a re	INVITE is sent and the media	stream indicated in the SDP is
	set to 'sendonly'		
ISUP Parameter values	SUS: Suspend/Resume		
	ISDN subscriber init	iated	
SIP Parameter values	INVITE 2: SDP		
	a=sendonly		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE 1 →	→	INVITE (IAM)
	100 Trying ←		,
	180 Ringing ←	←	180 Ringing
	100 1 11191119	-	(ACM free)
			(/ tow 1100)
	200 OK (INVITE) ←	←	200 OK (INVITE) (ANM)
	ACK →		ACK
	ACK	7	ACK
	INVITE 2(sendonly)	←	INICO (SUS(upar))
			INFO (SUS(user))
	200 OK (INVITE) →		200 OK (INFO)
	ACK ←		
		Apply post test routine	

TP number	TD 244 002		Deference		[41 alausa 7.0.4		
i P number	TP_311_002		Reference		[1], clause 7.3.1		
T00	DOTAL COUTD!				[2], clause 7.4.13		
TSS reference		PSTN-SS/TP/					
Selection criteria	PICS 6.3.2/12						
Test Purpose name	RES user initiated is ma						
Test Purpose					'ISDN subscriber initiated'		
	was received. Ensure the						
				L is se	nt and the media stream		
	indicated in the SDP is		endrecv'				
ISUP Parameter values	RES: Suspend/Resum						
	ISDN subscr	ber initi	ated				
SIP Parameter values	INVITE 2: SDP						
	a=sendor	nly					
	INVITE 3: SDP						
	a=sendre	CV					
Comments							
Message flows	SIP-I		MGCF		SIP NNI		
	INVITE 1 (IAM)	→	→	INVI	-		
			←	100	Trying		
	180 Ringing	←	←	180	Ringing		
	(ACM - free)						
	200 OK (INVITE)	←	←	200	OK (INVITE)		
	(ANM)						
	ACK	→	→	ACK	•		
	INVITE 2(sendonly)	←	←	INFO	O (SUS(user))		
	200 OK (INVITE)	→	→	200	OK (INFO)		
	ACK `	←			,		
	INVITE 3(sendrecv)	←	←	INFO	O (RES(user))		
	200 OK (INVITE)	→	→		OK (INFO)		
	ACK	É	-	_00	(·· ·· · · · ·)		
		_	Apply post test rout	ine			
			Apply post test rout				

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

TP number	TP_312_001	Reference	[1], clause 7.2.1			
			[2], clause 7.4.14			
TSS reference	PSTN-SS/CONF/	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/1 AND P	PICS 6.3.2/13				
Test Purpose name	I-MGCF: Session no	ot on hold, notification 'co	onference established'			
Test Purpose	A session at the I-M	GCF is in the confirmed	state and not set on hold. Ensure that on			
-	receipt of a reINVITI	E with encapsulated CP	G message the Generic notification indicator is			
	set to 'Conference e	stablished no relNVITE	is sent			
ISUP Parameter values	CPG: Generic notif	ication				
	Confe	Conference established				
SIP Parameter values						
Comments	This state is applical	ble for CONF and 3PTY	,			
Message flows	SIP NNI	MGCI	F SIP-I			
	INVITE	→	→ INVITE (IAM)			
	100 Trying	←				
	180 Ringing	←	180 Ringing			
			(ACM)- free			
	200 OK (INVITE)	←	← 200 OK (INVITE) (ANM)			
	ACK	→	→ ACK			
			← INFO (CPG)			
			→ 200 OK (INFO)			
		Apply pos	st test routine			

TP number	TP 312 002	Reference		[1], clause 7.3.1				
	11 _012_002	Kororonoo		[2], clause 7.4.14				
TSS reference	PSTN-SS/CONF/			[2], Gladeo 7. 1. 1 1				
Selection criteria		PICS 6.3.1/1 AND PICS 6.3.2/13						
Test Purpose name	O-MGCF: Session not on		nce establ	ished'				
Test Purpose	A session at the O-MGCF							
				eneric notification indicator is				
	set to 'Conference establi							
ISUP Parameter values	CPG: Generic notification	n=						
	Conference	Conference established						
SIP Parameter values								
Comments	This state is applicable fo	r CONF and 3PTY						
Message flows	SIP-I	MGCF		SIP NNI				
	INVITE (IAM)	→	→	INVITE				
			←	100 Trying				
	180 Ringing (ACM)	←	←	180 Ringing				
	200 OK (INVITE) ANM	←	←	200 OK (INVITE)				
	ACK	→	÷	ACK				
	INFO (CPG)	→						
	200 OK (INFO)	←						
		Apply post test r	outine					

TP number	TP_312_003	Reference	[1], clause 7.2.1 [2], clause 7.4.14		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	2/13			
Test Purpose name	I-MGCF: Session on hold, no		stablished'		
Test Purpose	A session at the I-MGCF is ir an INVITE with encapsulated 'Conference established' a re 'sendrecv' On receipt of an INFO with e	n the confirmed state and CPG message the GellNVITE request is sent incapsulated CPG messed in the request is requested in the request is the confirmation of the confirmation in the conf	Id set on hold. Ensure that on receipt of neric notification indicator is set to the 'a' attribute in the SDP is set to sage the Generic notification indicator est is sent the 'a' attribute in the SDP is		
ISUP Parameter values	CPG 1: Generic notificatio Remote hold CPG 2: Generic notificatio Conference es	n n			
SIP Parameter values	INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv				
Comments	This state is applicable for 3F	PTY			
Message flows	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK CASE A INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	MGCF → ← ← → ← → ← → ←	SIP-I → INVITE (IAM) ← 180 Ringing (ACM - free) ← 200 OK (INVITE) (ANM) → ACK ← INVITE 1 (sendonly) (CPG 1) → 200 OK INVITE (recvonly) ← ACK ← INVITE 2 (sendrecv) → 200 OK INVITE (sendrecv) ← ACK ← INFO(CPG 2) → 200 OK INFO		
	CASE B INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	← → ← Apply post test ro	← INFO(CPG 2) → 200 OK INFO		

TP number	TP_312_004	Reference	[1], clause 7.3.1		
	20211 00/0012/		[2], clause 7.4.14		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13				
Test Purpose name	O-MGCF: Session on hold, notifi				
Test Purpose	A session at the O-MGCF is in the				
	of a INVITE with encapsulated C				
	'Conference established' a relNV	/TTE request is sent the 'a' a	attribute in the SDP is set to		
	'sendrecv'				
	On receipt of an INFO with enca				
	is set to 'Conference established		ent the a attribute in the SDP is		
ICUD Deservator valvas	set to 'sendrecv' will be sent (CA CPG 1: Generic notification	(SE B)			
ISUP Parameter values					
	Remote hold CPG 2: Generic notification				
	Conference estable	lished			
SIP Parameter values	INVITE 1: SDP	iisried			
on rainteter values	a=sendonly				
	INVITE 2: SDP				
	a=sendrecv				
Comments	This state is applicable for 3PTY				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	INVITE		
	, ,	←	100 Trying		
	180 Ringing (ACM - free)	+ +	180 Ringing		
	,		0 0		
	200 OK (INVITE) (ANM)	+ +	200 OK (INVITE)		
	ACK	→ →	ACK		
	INVITE 1 (sendonly) (CPG 1)	→ →	INVITE 1 (sendonly)		
	200 OK INVITE (recvonly)	← ←	200 OK INVITE (recvonly)		
	ACK	→ →	ACK		
	CASE A				
	INVITE 2 (sendrecv)	→	,		
	200 OK INVITE (sendrecv)	← ←	,		
	ACK → ACK				
	INFO (CPG 2)	→			
	200 OK INFO	-			
	CASE B	_			
	INFO (CPG 2)	→			
	200 OK INFO	+ +	200 OK INVITE (sendrecv)		
		→	ACK		
		Apply post test routine			

TP number	TP_312_005	Reference	[1], clause 7.2.1		
			[2], clause 7.4.14		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/2	13			
Test Purpose name	I-MGCF: Session not on hold, r	notification 'Conference discon	nected'		
Test Purpose	A session at the I-MGCF is in the	he confirmed state not set on h	nold and a conference is		
	established. Ensure that on rec				
	Generic notification indicator is	set to 'Conference disconnect	ed' no reINVITE is sent		
ISUP Parameter values	CPG 1: Generic notification				
	Conference esta	blished			
	CPG 2: Generic notification				
	Conference disco	onnected			
SIP Parameter values					
Comments	This state is applicable for CON				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
	180 Ringing ←	←	180 Ringing (ACM - free)		
	200 OK (INVITE)	←	200 OK (INVITE) (ANM)		
	ACK →	→	ACK		
		+	INFO 1 (CPG 1)		
	→ 200 OK (INFO)				
		+	INFO 2 (CPG 2)		
		→	200 OK (INFO)		
		Apply post test routine	- /		

TP number	TP_312_006	Reference		[1], clause 7.3.1
110111001	0.1000	11010101100		[2], clause 7.4.14
TSS reference	PSTN-SS/CONF/	l .		IL 3/
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/13		
Test Purpose name	O-MGCF: Session not o	n hold, notification 'Con	ference disc	onnected'
Test Purpose	A session at the O-MGC	F is in the confirmed sta	ate not set o	n hold and a conference is
		•	•	llated CPG message the
			ce disconnec	cted' no reINVITE is sent
ISUP Parameter values	CPG 1: Generic notific			
	000.	ce established		
	CPG 2: Generic notific	•••••		
	Conference	ce disconnected		
SIP Parameter values		COME LODEN		
Comments	This state is applicable f			
Message flows	SIP-I	MGCF		SIP NNI
	INVITE (IAM)	→		/ITE
		-		O Trying
	180 Ringing	←	← 180	O Ringing
	(ACM- free)			
		←	4 200	OK (INIVITE)
	200 OK (INVITE) (ANM)	~	← 200	O OK (INVITE)
	ACK	→	→ AC	V
	ACK	7	→ AC	· N
	INFO (CPG 1)	→		
	200 OK (INFO)	É		
	200 517 (1141 5)	•		
	INFO (CPG 2)	→		
	200 OK	É		
		Apply post te	st routine	

TD mumb or	TD 242 007	Deference	[41 - 7.0.4		
TP number	TP_312_007	Reference	[1], clause 7.2.1 [2], clause 7.4.14		
TSS reference	PSTN-SS/CONF/		[[2], clause 7.4.14		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/1	2			
			a a t a all		
Test Purpose name	I-MGCF: Session on hold, notifi				
Test Purpose	A session at the I-MGCF is in the				
	established. Ensure that on rec Generic notification indicator is				
	the SIP side	set to Conference disconne	ected no action takes place on		
ISUP Parameter values	CPG 1: Generic notification				
150P Parameter values	Remote hold				
	CPG 2: Generic notification				
	Conference estal	aliahad			
	CPG 3: Generic notification	Diistied			
	Conference disco	annostad			
SIP Parameter values	INVITE 1: SDP	micoleu			
on raiameter values	a=sendonly				
	INVITE 2: SDP				
	a=sendrecv				
Comments	This state is applicable for 3PT	V			
Message flows	SIP NNI	MGCF	SIP-I		
Wessage nows	INVITE -		INVITE (IAM)		
	100 Trying		INVITE (IAWI)		
	180 Ringing		180 Ringing (ACM - free)		
	200 OK (INIVITE)		200 OK (INIVITE) (ANIM)		
	200 OK (INVITE)		200 OK (INVITE) (ANM) ACK		
	ACK	7	ACK		
	INVITE 1 (sendonly)		INIVITE 1 (condonly) (CBC 1)		
	200 OK INVITE (recvonly)		INVITE 1 (sendonly) (CPG 1) 200 OK INVITE (recvonly)		
	` ;		ACK		
	ACK •		ACK		
	CASE A				
			INIVITE 2 (condragy)		
	= = (00.14.1001)		INVITE 2 (sendrecv)		
	200 OK INVITE (sendrecv)		200 OK INVITE (sendrecv)		
	ACK •	=	ACK		
			INFO (CPG 3)		
	→ 200 OK INFO				
	0.0T D				
	CASE B	_	INFO (CDC 2)		
	INVITE 2 (sendrecv)		INFO (CPG 2)		
	200 OK INVITE (sendrecv)		200 OK INFO		
	ACK •		INICO (ODO O)		
			INFO (CPG 3)		
			200 OK INFO		
	Apply post test routine				

TP number	TP_312_008	Reference	[1], clause 7.3.1	
			[2], clause 7.4.14	
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	13		
Test Purpose name	O-MGCF: Session on hold, not	ification 'Conference disconne	cted'	
Test Purpose	A session at the O-MGCF is in	the confirmed state set on hole	d and a conference is	
	established. Ensure that on rec	eipt of an INFO with encapsula	ated CPG message the	
	Generic notification indicator is	set to 'Conference disconnect	ed' no action takes place on	
	the SIP side			
ISUP Parameter values	CPG 1: Generic notification			
	Remote hold			
	CPG 2: Generic notification			
	Conference established			
	CPG 3: Generic notification			
	Conference disc	onnected		
SIP Parameter values	INVITE 1: SDP			
	a=sendonly			
	INVITE 2: SDP			

	a=sendrecv		
Comments	This state is applicable for 3PT	Υ	
Message flows	SIP-I	MGCF	SIP NNI
		A conference is establi	ished
	INVITE (IAM)	→	→ INVITE
	, ,		← 100 Trying
	180 Ringing (ACM - free)	←	← 180 Ringing
	200 OK (INVITE) (ANM)	←	← 200 OK (INVITE)
	ACK	→	→ ACK
	INVITE 1 (sendonly) (CPG 1)	→	→ INVITE 1 (sendonly)
	200 OK INVITE (recvonly)	-	 200 OK INVITE (recvonly)
	ACK	→	→ ACK
	CASE A		
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv)	→	→ INVITE 2 (sendrecv)← 200 OK INVITE (sendrecv)
	ACK	→	→ ACK
	INFO (CPG 2)	÷	ZAOR
	200 OK INFO	É	
	250 511 111 5	•	
	INFO (CPG 3)	→	
	200 OK INFO	←	
	CASE B		
	INFO (CPG 2)	→	→ INVITE 2 (sendrecv)
	200 OK INFO	←	← 200 OK INVITE (sendrecv) → ACK
	INFO (CPG 3)	→	
	200 OK INFO	-	
		Apply post test routi	ine

TP number	TP_312_009	Reference	[1], clause 7.2.1		
			[2], clause 7.4.14		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2				
Test Purpose name		' and 'reattached' interworked			
Test Purpose		s established. Ensure that on			
			ator is set to 'isolated' a reINVITE		
			ly'. Subsequently on receipt of a		
			eattached' a reINVITE request is		
ICUD Devementar values	sent the 'a' attribute in the SE				
ISUP Parameter values	CPG 1: Generic notification Conference es				
	CPG 2: Generic notification				
	isolated				
	CPG 3: Generic notification	n			
	reattached	•			
SIP Parameter values	INVITE 1: SDP				
	a=sendonly				
	INVITE 2: SDP				
	a=sendrecv				
Comments	This state is applicable for Co				
Message flows	SIP NNI	MGCF	SIP-I		
	IND CITE		INI) (ITE (IABA)		
	INVITE	→ →	INVITE (IAM)		
	100 Trying	(400 Dinging (ACM)		
	180 Ringing	← ←	180 Ringing (ACM)		
	200 OK (INVITE)	+ +	200 OK (INVITE) (ANM)		
	ACK	→ →			
			7.0.1		
		+	INFO (CPG 1)		
)	,		
			,		
	INVITE 1 (sendonly)	+ +	INFO CPG 2		
	200 OK INVITE (recvonly)	→	200 OK INFO		
	ACK ←				
	INVITE 2 (sendrecv)	+ +	INFO (CPG 3)		
	200 OK INVITE (sendrecv)	→ →	,		
	ACK	←	200 010 1101 0		
	,	Apply post test routine			
	Apply post test routine				

TP number	TP_312_010	Reference	[1], clause 7.3.1		
TSS reference	PSTN-SS/CONF/		[2], clause 7.4.14		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13	1			
Test Purpose name	O-MGCF: notification 'isolated' a				
Test Purpose name	A conference at the O-MFCF is a				
Test Purpose	encapsulated CPG message the request is sent the 'a' attribute in CPG message the Generic notific sent the 'a' attribute in the SDP is	Generic notification indicate the SDP is set to 'sendonly cation indicator is set to 'rea	for is set to 'isolated' a reINVITE y'. Subsequently on receipt of a		
ISUP Parameter values	CPG 1: Generic notification				
	Conference establ CPG 2: Generic notification isolated CPG 2: Generic notification reattached	ished			
SIP Parameter values	INVITE 1: SDP				
	a=sendonly INVITE 2: SDP a=sendrecv				
Comments	This state is applicable for CONF				
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	INVITE		
	180 Ringing (ACM - free)	+ +	100 Trying 180 Ringing		
	200 OK (INVITE) (ANM)	+ +	200 OK (INVITE)		
	ACK	•	ACK		
	INFO (CPG 1)	→			
	200 OK (INFO)	←			
	INFO (CPG 2)	→	,		
	200 OK INFO	+ +			
	ACK → ACK				
	INFO (CPG 3)	→ →	INVITE 2 (sendrecv)		
	200 OK INFO)	+ +	200 OK INVITE (sendrecv)		
	ACK	→ →	ACK		
		Apply post test routine			

6.2.13 Void

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

TP number	TP_314_001	Refere	nce	[1], clause 7.3.1
				[2], clause 7.4.17
TSS reference	PSTN-SS/MLPP/			
Selection criteria				
Test Purpose name	Precedence parame	eter received in IAN	/l, discarded	
Test Purpose		•	th encapsulated IAM attheut affect the ongoing it.	and a Precedence parameter is
ISUP Parameter values	IAM: Precedence		J	<u> </u>
SIP Parameter values				
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	→	→	INVITE
			←	100 Trying
		Appl	y post test routine	

TP number	TP_314_002		Reference	[1], clause 7.3.1
				[2], clause 7.4.17
TSS reference	PSTN-SS/MLPP/			
Selection criteria				
Test Purpose name	A REL cause #9 te	rminates an	early dialogue	
Test Purpose	at the O-MGCF and	d the Cause		REL message in an early dialogue CEL request is sent. A Reason se value is set to '9'
ISUP Parameter values	REL: Cause = 9			
SIP Parameter values	CANCEL: Reason:	Q.850 [i.3];	cause=9	
Comments				
Message flows	SIP-I		MGCF	SIP NNI
		A Ses	ssion is already in early	dialogue
	CANCEL (REL)	→	→	CANCEL
	200 OK CANCÉL	←	←	200 OK CANCEL
	(RLC)			
	487 Request	←	←	487 Request Terminated
	Terminated			
	ACK	→	→	ACK

TP number	TP 314 003	Reference	[1], claus	se 7.2.1	
			[2], claus		
TSS reference	PSTN-SS/MLPP/				
Selection criteria					
Test Purpose name	A REL cause #8 termir	nates an early dialogue			
Test Purpose	Ensure that on receipt	of a 4xx/5xx with encapsulat	ed REL message in	an early dialogue at	
	the I-MGCF and the Ca	ause value is set to '8', a 4xx	or 5xx final respons	se is sent. A Reason	
	header is contained in	the final response message	and the cause value	e is set to '9'	
ISUP Parameter values	REL: Cause = 8				
SIP Parameter values	480: Reason: Q.850	[i.3]; cause=8			
Comments					
Message flows	SIP NNI	М	GCF	SIP-I	
_	A Session is already in early dialogue				
	4xx/5xx	←	←	4xx/5xx (REL)	
	ACK	→	→	ACK (RLC)	

TP number	TP_314_004	Reference	[1], clause 7.3.1	
			[2], clause 7.4.17	
TSS reference	PSTN-SS/MLPP/			
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/15		
Test Purpose name	A REL cause #9 termina	ates a confirmed dialogue		
Test Purpose	Ensure that on receipt o	f a REL message in a confi	rmed dialogue and the Cause value is	
	set to '9', a BYE request	t is sent. A Reason header i	s contained in the BYE request and the	
	cause value is set to '9'			
ISUP Parameter values	REL: Cause = 9			
SIP Parameter values	BYE: Reason: Q.850 [i.3]; cause=9			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	A Session is already established			
	BYE (REL)	→	→ BYE	
	200 OK BYE (RLC)	+	← 200 OK BYE	

6.2.15 Global Virtual Network Service (GVNS)

TP number	TP_315_001	Reference	[1], clause 7.2.1		
			[2], clause 7.4.18		
TSS reference	PSTN-SS/GVNS/				
Selection criteria					
Test Purpose name	Forward GVNS parameter in IA	AM discarded			
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM co	ontaining a request for GVNS		
	service, the Forward GVNS pa	rameter is discarded without at	fect the ongoing call setup		
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	SIP NNI	MGCF	SIP-I		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
		Apply post test routine			

6.2.16 Reverse charging (REV)

TP number	TP_316_001	Reference	[1], clause 7.3.1			
			[2], clause 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	calling user at the call set-up	time			
Test Purpose			ted IAM and a Remote Operation			
			etup invoke component, the Remote			
	Operation parameter	is discarded without affect the	ongoing call setup			
ISUP Parameter values	IAM: Called party nu					
	Remote Opera	ition				
		REVCallingReqSetup invoke				
	transfer	transferRequested = true				
	callingL	callingUserNumber				
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	, ,		← 100 Trying			
		Apply post test routine				

TP number	TP_316_002	Reference	[1], clause 7.3.1	
			[2], clause 7.4.20	
TSS reference	PSTN-SS/REV/			
Selection criteria				
Test Purpose name	REV request from the call			
Test Purpose	Ensure that on receipt of a INFO with encapsulated 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	SIP-I	MGCF	SIP NNI	
	A confirmed dialogue is already established			
	INFO (FAC)	→		
	200 OK INFO	←		
	Apply post test routine			

TP number	TP_316_003	Reference	[1], clause 7.2.1	
			[2], clause 7.4.20	
TSS reference	PSTN-SS/REV/			
Selection criteria				
Test Purpose name	REV request from the	called user during the active	state of the call	
Test Purpose	Ensure that on receipt of a INFO with encapsulated FAC message at the I-MGCF in the active state of a call and a Remote Operation parameter is present containing a REVCalledRequest invoke component, the FAC message is discarded without affect the present call			
ISUP Parameter values	FAC: Remote Operation REVCalledRequest invoke transferRequested = true calledUserNumber			
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	A	A confirmed dialogue is alr	ready established ← INFO (FAC)	
	→ 200 OK INFO			
	Apply post test routine			

TP number	TP 316 004	Reference	[1], clause 7.3.1			
11 Humber	11 _510_004	Kererence	[2], clause 7.4.20			
TSS reference	PSTN-SS/REV/		[[2], siddso 7.1.25			
Selection criteria						
Test Purpose name	REV request in IAM exp	licit reiected				
Test Purpose			llated IAM message and a Remote			
			allingReqSetup invoke component and			
		nis service is supported, t				
	200 OK INVITE with encapsulated ANM a Remote Operation parameter containing a					
		REVCallingReqSetup return error component set to rejectedByNetwork OR				
			ation parameter containing a			
		up return error componen	t set to rejectedByNetwork and the Cause			
	value is set to '29'					
ISUP Parameter values	IAM: Called party num					
	Remote Operatio	n eqSetup invoke				
		eqsetup invoke equested = true				
	callingUse					
	ANM: Remote Operation					
		eqSetup return error				
	rejectedBy					
	REL: Cause 29	,				
	Remote Operation					
	REVCallingReqSetup return error					
	rejectedBy	yNetwork				
SIP Parameter values						
Comments	6.5		OLD VIVI			
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→				
	0405.4					
	CASE A		→ INVITE			
	190 Dinging	←				
	180 Ringing (ACM - free)	•	← 180 Ringing			
	200 OK INVITE (ANM)	←	← 200 OK INVITE			
	ACK	→	→ ACK			
	Apply post test routine					
		Apply post tes	Toutine			
	CASE B					
	4xx/5xx/6xx (REL)	←				
	ACK (RLC)	→				
	, .c. ((.c.)	-				

TP number	TP 316 005	Reference	[1], clause 7.3.1		
			[2], clause 7.4.20		
TSS reference	PSTN-SS/REV/		12		
Selection criteria					
Test Purpose name	REV request in the active state explicit rejected at the O-MGCF				
Test Purpose	Ensure that on receipt of an INFO with encapsulated FAC message at the O-MGCF in the				
	active state of the call and a Re				
	REVCallingReqSetup invoke co				
	supported, the SUT sends in a				
	parameter containing a REVCa	allingReqActive return error cor	nponent set to		
	rejectedByNetwork				
ISUP Parameter values	FAC: Remote Operation				
	REVCallingReqActiv				
	transferRequeste				
	callingUserNumber				
	FRJ: Remote Operation				
	REVCallingReqActive return error				
OID D	rejectedByNetwo	ork			
SIP Parameter values					
Comments	OID I	W005	OID AIN!!		
Message flows	SIP-I	MGCF	SIP NNI		
		med dialogue is already esta	blished		
	INFO (FAC) →				
	200 OK INFO				
	INFO (FRJ) ←				
	200 OK INFO →				
	Apply post test routine				

TP number	TP_316_006	Reference	[1], clause 7.2.1
			[2], clause 7.4.20
TSS reference	PSTN-SS/REV/		
Selection criteria			
Test Purpose name	REV request in the active state	explicit rejected at the I-M	1GCF
Test Purpose	Ensure that on receipt of an INFO with encapsulated 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 INFO with encapsulated FRJ message a Remote Operation parameter containing a REVCalledRequest return error component set to rejectedByNetwork		
ISUP Parameter values	FAC: Remote Operation REVCalledRequest transferRequest calledUserNumb FRJ: Remote Operation REVCalledRequest rejectedByNetwo	ed = true er return error	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	A confir	med dialogue is already	established
		←	INFO (FAC)
			200 OK INFO
		→	INFO (FRJ)
		←	200 OK INFO
	Apply post test routine		

6.2.17 Void

6.2.18 Void

6.3 IMS Supplementary Services

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

TP number	TP_401_001	Reference	[1], clause 7.2.1	
			[2], clause 7.5.1	
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.3/1 AND PICS 6.	PICS 6.3.3/1 AND PICS 6.3.2/1		
Test Purpose name	INVITE received. From hea	INVITE received. From header not present, P-Asserted-Identity not present. Network		
	provided number is sent			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the			
	From header does not con	tain an URI that encode	s an E.164 [i.1] Address, an INVITE with	
	encapsulated IAM is sent			
		arameter is present and	the address digits are provided by the	
	SUT			
ISUP Parameter values	IAM: Calling party Num	ber		
		lete indicator=Complete		
			nony (Recommendation ITU-T 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			
		(significant) number		
	else			
		onal number		
		ator=Network Provided		
		striction=restricted or all		
		provided by the Netwo		
			ber" then set to "NDC" + "SN"	
			n set to "CC"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Ider			
	From: sip:unava	ilable@unknown.invalic		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM	
	100 Trying ←			
		Apply post test	routine	

TP number	TP_401_002	Reference	[1], clause 7.2.1		
			[2], clauses 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 not present, P-Asserted-Identity not present. Network			
To al Diamage	provided number is sent Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the				
Test Purpose					
		in an URI that encodes an E.16	4 [I.1] Address, an INVITE with		
	encapsulated IAM is sent		a disting and muchiqued by the		
		meter is present and the addres			
ISUP Parameter values		ction indicator is set to 'presenta	ation restricted by network		
150P Parameter values	IAM: Calling party Number				
		te indicator= <i>Complete</i>	ammandation ITLL T C 164 (i 11)		
	Numbering Plan ii Nature of Address	ndicator= <i>ISDN/Telephony</i> (Reco	ommendation 110-1 E. 164 [i. i])		
			f the country where MCCE is		
	If CC encoded in the URI is equal to the CC of the country where MGCF is				
	located AND the next BICC/ISUP node is located in the same country then national (significant) number				
	,				
	else				
	international number				
	Screening indicator=Network Provided Presentation restriction=presentation restricted by network				
		ovided by the Network	/ Hetwork		
		onal (significant) number" then s	set to "NDC" + "SN"		
		rnational number" then set to "C			
SIP Parameter values	INVITE: P-Asserted-Identit		O F NDO F ON		
on rarameter values		able@unknown.invalid			
Comments	1 Tom: oip:anavana	ibio@aiitiowii.iiivaiia			
Message flows	SIP NNI	MGCF	SIP-I		
incocage nows		→ →	INVITE (IAM)		
	—	+			
	100 frying	Apply post test routine			
	Apply post test routille				

TP number	TP 401 003	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/		-	
Selection criteria	NOT PICS 6.3.3/2 AN	D NOT PICS6.3.3/1 AND PICS	6.3.2/1	
Test Purpose name	INVITE received. From omitted	n header not present, P-Asserte	ed-Identity not present. Address digits	
Test Purpose			serted-Identity is not present and the n E.164 [i.1] Address, an INVITE with	
	encapsulated IAM is sent			
	A Calling party number parameter is not present and a Generic number parameter is not			
	present		·	
ISUP Parameter values	IAM: Calling party N	Number		
	not present			
SIP Parameter values	INVITE: P-Asserted-	-Identity: not present		
	From: sip:u	navailable@unknown.invalid		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	, ,	
	Apply post test routine			

TP number	TD 404 004	Reference	[1] clause 7.2.1			
i P number	TP_401_004	Reference	[1], clause 7.2.1			
			[2], clauses 7.5.1,			
			7.2.3.1.2.6			
TSS reference	IMS-SS/OIP-OIR/					
Selection criteria	PICS 6.3.3/1 AND PICS	PICS 6.3.3/1 AND PICS 6.3.3/2 AND PICS 6.3.3/3 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From	header not present, P-Asserte	d-Identity not present APRI is set to			
	'Address not available'		•			
Test Purpose	Ensure that on receipt of	of an INVITE request the P-Ass	serted-Identity is not present and the			
	From header does not d	contain an URI that encodes a	n E.164 [i.1] Address, an INVITE with			
	encapsulated IAM is se	nt	-			
	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 N	umber				
	Number inco	Number incomplete indicator=Complete				
	Numbering Plan Indicator='000'					
		Nature of Address Indicator='0000000'				
	Screening in	Screening indicator=Network Provided				
		Presentation restriction=Address not available				
	Address sign	nal Address digits not present				
SIP Parameter values		dentity: not present				
		available@unknown.invalid				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
-	INVITE	→	→ INVITE (IAM)			
	100 Trying	←	,			
	Apply post test routine					
		7.PP-) poor 1001100				

TP number	TP 401 005	Reference	[1], clause 7.2.1
			[2], clauses 7.5.1,
			7.2.3.1.2.6
TSS reference	IMS-SS/OIP-OIR/		
Selection criteria	PICS 6.3.3/1 PICS 6.3.2/1		
Test Purpose name	INVITE received. From header	present, P-Asserted-Identity r	not present. Network provided
	number is sent		
Test Purpose	Ensure that on receipt of an IN From header contains an URI		
	encapsulated IAM is sent		
	A Calling party number parame		
	SUT. 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		
10110 0		om the Userpart of the From he	eader
ISUP Parameter values	IAM: Calling party Number	in dia atau Oa manda (a	
	Number incomplete	indicator=Complete	managed at a second at the sec
	Numbering Plan Ind Nature of Address I		mmendation ITU-T E.164 [i.1])
		กนเตลเงา า the URI is equal to the CC of	the country where MGCE is
		next BICC/ISUP node is locate	
		nificant) number	icu in the same country then
	else	mount) nambor	
	international	number	
	Screening indicator=Network Provided		
	Presentation restriction=restricted or allowed		
	Address signal provided by the Network		
	if NOA is "national (significant) number" then set to "NDC" + "SN"		
	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	mbor	
	international number Number incomplete indicator=Complete		
			mmendation ITU-T E.164 [i.1])
		tion=restricted or allowed	minicination 110-1 E.104 [i.1])
		user provided not verified	
	Address digits deriv	ved from the 'From' header	
		nal (significant) number" then s	et to "NDC" + "SN"
	If NOA is "intern	ational number" set to "CC"+' I	NDC'+'SN'
SIP Parameter values	INVITE: P-Asserted-Identity:	not present	
	From: contains a UF	RI that encodes an E.164 [i.1] a	address
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -		INVITE (IAM)
	100 Trying		100 Trying
		Apply post test routine	

TP number	TP 401 006	Reference	[1], clause 7.2.1
		110.0.0.0	[2], clauses 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		r present, P-Asserted-Identity r	not present. Network provided
•	number is sent	• ,	·
Test Purpose	Ensure that on receipt of an IN	IVITE request the P-Asserted-I	dentity is not present and the
-	From header contains an URI	that encodes an E.164 [i.1] Ad	dress, an INVITE with
	encapsulated IAM is sent		
		eter is present and the address	
		tion indicator is set to 'presenta	
		er is sent in a Generic number բ	
	•	serpart of the From header and	the Presentation restriction
	indicator is set to 'presentation		
ISUP Parameter values	IAM: Calling party Number		
		indicator=Complete	
			mmendation ITU-T E.164 [i.1])
	Nature of Address I		" ' NOOF:
		n the URI is equal to the CC of	
		e next BICC/ISUP node is locat	ed in the same country then
	else	nificant) number	
	international	number	
	Screening indicator=Network Provided Presentation restriction=presentation restricted by network		
	Address signal provided by the Network		
	if NOA is "national (significant) number" then set to "NDC" + "SN"		
	If NOA is "international number" then set to "CC"+" NDC"+"SN"		
	Additional calling party number		
	Nature of Address Indicator		
	If CC encoded in the URI is equal to the CC of the country where MGCF is		
	located AND the next BICC/ISUP node is located in the same country then		
	national (signific		,
	else	•	
	international nui	mber	
		indicator=Complete	
	Numbering Plan Inc	licator=ISDN/Telephony (Reco	mmendation ITU-T E.164 [i.1])
	Presentation restric		
		user provided not verified	
		ved from the 'From' header	
		nal (significant) number" then s	
		national number" set to "CC"+' I	NDC'+'SN'
SIP Parameter values	INVITE: P-Asserted-Identity From: contains a UI	: not present RI that encodes an E.164 [i.1] a	address
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	INVITE (IAM)
	100 Trying	•	
		Apply post test routine	

TP number	TP 401 007	Reference	[1], clause 7.2.1	
	11 _ 10 1_007	resolution of	[2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/		1	
Selection criteria		ICS 6.3.3/2 AND PICS 6.3		
Test Purpose name	INVITE received. From he	ader present, P-Asserted-	Identity not present. Address digits	
_	omitted			
Test Purpose			sserted-Identity is not present and the	
		ntain an URI that encodes	an E.164 [i.1] Address, an INVITE with	
		encapsulated IAM is sent		
			e address digits omitted. An Additional	
			rameter and the Address signals are	
ISUP Parameter values	derived from the Userpart			
150P Parameter values	IAM: Calling party Num	olete indicator= <i>Complete</i>		
		n Indicator='000'		
		ess Indicator='00000000'		
		ator=Network Provided		
		striction= Address not ava	ilable	
		Address digits not prese		
	Additional calling party number			
	Nature of Address Indicator			
	If CC encod	led in the URI is equal to t	he CC of the country where MGCF is	
	located ANI	O the next BICC/ISUP nod	e is located in the same country then	
	national (significant) number			
	else			
	international number			
	Number incomplete indicator=Complete			
	Numbering Plan Indicator=ISDN/Telephony (Recommendation ITU-T E.164 [i.1])			
		striction=restricted or allov		
		cator=user provided not ve		
		derived from the 'From' I	er" then set to "NDC" + "SN"	
		nternational number" set to		
SIP Parameter values		ntity: not present	7 00 1 1100 1 011	
		a URI that encodes an E.	164 [i 1] address	
Comments	Trems comains	a ora mat oncodes an E.	10 1 [i. 1] add1000	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	,	
		Apply post test ro	outine	

TP number	TP_401_008	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	NOT PICS 6.3.3/1 AN	D NOT PICS 6.3.3/2 AND PI	CS 6.3.3/5 AND PICS 6.3.2/1	
Test Purpose name	INVITE received. From omitted	n header present, P-Asserted	d-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	t contain an URI that encodes	s an E.164 [i.1] Address, an INVITE with	
	encapsulated IAM is sent			
	A Calling party number parameter is present and the address digits omitted. In addition, the			
	Additional calling party	Additional calling party number is omitted		
ISUP Parameter values	IAM: Calling party I			
	Additional cal	ling party number not prese	ent	
SIP Parameter values	INVITE: P-Asserted			
	From: conta	ains a URI that encodes an E	:.164 [i.1] address	
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	. ,	
	, ,	Apply post test	routine	

TP number	TP_401_009	Reference	[1], clause 7.2.1
			[2], clauses 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			ity present Privacy not present
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the		
	From header does not contain		
	header is not present, an INVI		
	A Calling party number parame	eter is present and the address	digits are derived from the
	P-Asserted-Identity header		
ISUP Parameter values	IAM: Calling party Number		
	Number incomplete	indicator=Complete	
			mmendation ITU-T 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		
		nal (significant) number" then s	
	If NOA is "intern	ational number" then set to "C	C"+" NDC"+"SN"
SIP Parameter values	INVITE: P-Asserted-Identity:	present	
	From: sip:unavailab	le@unknown.invalid	
	Privacy not present		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←	•	
		Apply post test routine	

TP number	TP 401 010	Reference	[1], clause 7.2.1
I Hamber	11 _401_010	Kelelelice	[2], clauses 7.5.1,
			7.2.3.1.2.6
TSS reference	IMS-SS/OIP-OIR/		7.2.3.1.2.0
Selection criteria	PICS 6.3.2/1		
		or not present D Asserted Ident	tity present Privacy value
Test Purpose name	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'none'		
Test Purpose		NVITE request the P-Asserted-	• •
		n an URI that encodes an E.16 ²	
		e', an INVITE with encapsulated	
		neter is present and the address	
	P-Asserted-Identity header.	The Presentation restriction is se	et to 'presentation 'allowed'
ISUP Parameter values	IAM: Calling party Numbe	r	
	Number incomplete indicator=Complete		
	Numbering Plan Indicator=ISDN/Telephony (Recommendation ITU-T 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		
		onal (significant) number" then s	
		national number" then set to "C	
SIP Parameter values	INVITE: P-Asserted-Identity		0 / 1120 / 611
on raidinotor variaco		ble@unknown.invalid	
	Privacy: none	bio (gaintiio Wii.iii Valia	
Comments	1 iivaey. none		
Message flows	SIP NNI	MGCF	SIP-I
incocage nows	-	→	INVITE (IAM)
	· · · · · · =	É	IIIVII = (IMIVI)
	Too Trying	Apply post test routine	
		Apply post test routille	

TP number	TP_401_011	Reference	[1], clause 7.2.1	
			[2], clauses 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			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
		From header does not contain an URI that encodes an E.164 [i.1] Address and a Privacy		
	header is present set to 'id', an			
	A Calling party number parame			
	P-Asserted-Identity header. Th	e Presentation restriction is se	t to 'presentation 'restricted'	
ISUP Parameter values	IAM: Calling party Number			
	Number incomplete	indicator=Complete		
			mmendation ITU-T 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			
		<i>nal (significant) number"</i> then s		
	If NOA is "intern	ational number" then set to "Co	C"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Identity:	present		
	From: sip:unavailab	le@unknown.invalid		
	Privacy: id			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←		•	
		Apply post test routine		

TP number	TP_401_012	Reference	[1], clause 7.2.1
			[2], clauses 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 'user'		
Test Purpose			serted-Identity is present and the
	From header does not conta	ain an URI that encodes a	n E.164 [i.1] Address and a Privacy
	header is present set to 'use	er', an INVITE with encaps	sulated IAM is sent
	A Calling party number para	ameter is present and the	address digits are derived from the
	P-Asserted-Identity header.	The Presentation restricti	on is set to 'presentation 'restricted'
ISUP Parameter values	IAM: Calling party Numb	er	
	Number incomplete indicator=Complete		
	Numbering Plan Indicator=ISDN/Telephony (Recommendation ITU-T 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 "na	tional (significant) number	"then set to "NDC" + "SN"
	If NOA is "international number" then set to "CC"+" NDC"+"SN"		
SIP Parameter values	INVITE: P-Asserted-Ident	ity: present	
		lable@unknown.invalid	
	Privacy: user		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	,
	, 3	Apply post test rou	ıtine

'header' Test Purpose Ensure that on receipt of an INVITE request the P-Asserted-Identity is prefered by From header does not contain an URI that encodes an E.164 [i.1] Address header is present set to 'header', an INVITE with encapsulated IAM is ser A Calling party number parameter is present and the address digits are deproperation in the presentation restriction is set to 'presentation restriction restriction is set to 'presentation restriction restrict			
TSS reference Selection criteria PICS 6.3.2/1 Test Purpose name INVITE received. From header not present, P-Asserted-Identity present, F 'header' Test Purpose Ensure that on receipt of an INVITE request the P-Asserted-Identity is pre From header does not contain an URI that encodes an E.164 [i.1] Addres header is present set to 'header', an INVITE with encapsulated IAM is ser A Calling party number parameter is present and the address digits are de P-Asserted-Identity header. The Presentation restriction is set to 'presents' ISUP Parameter values IAM: Calling party Number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation)			
Selection criteria			
Test Purpose name INVITE received. From header not present, P-Asserted-Identity present, F 'header' Test Purpose Ensure that on receipt of an INVITE request the P-Asserted-Identity is pre From header does not contain an URI that encodes an E.164 [i.1] Addres header is present set to 'header', an INVITE with encapsulated IAM is ser A Calling party number parameter is present and the address digits are de P-Asserted-Identity header. The Presentation restriction is set to 'presents' ISUP Parameter values IAM: Calling party Number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation)			
'header' Test Purpose Ensure that on receipt of an INVITE request the P-Asserted-Identity is prefrom header does not contain an URI that encodes an E.164 [i.1] Address header is present set to 'header', an INVITE with encapsulated IAM is ser A Calling party number parameter is present and the address digits are deprocessor and			
From header does not contain an URI that encodes an E.164 [i.1] Addres header is present set to 'header', an INVITE with encapsulated IAM is ser A Calling party number parameter is present and the address digits are dependently header. The Presentation restriction is set to 'presentation's set to	INVITE received. From header not present, P-Asserted-Identity present, Privacy value 'header'		
header is present set to 'header', an INVITE with encapsulated IAM is ser A Calling party number parameter is present and the address digits are dependent of the Presentation restriction is set to 'present and the address digits are dependent of the Presentation restriction is set to 'present and ISUP Parameter values ISUP Parameter values IAM: Calling party Number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation)			
A Calling party number parameter is present and the address digits are de P-Asserted-Identity header. The Presentation restriction is set to 'presentation restriction restriction is set to 'presentation restriction restriction is set to 'presentation restriction restric	s and a Privacy		
P-Asserted-Identity header. The Presentation restriction is set to 'presentation restriction restriction is set to 'presentation restriction restric	nt		
ISUP Parameter values IAM: Calling party Number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation)	erived from the		
Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation	ation 'restricted'		
Numbering Plan Indicator=ISDN/Telephony (Recommendation			
Nature of Address Indicator	Numbering Plan Indicator=ISDN/Telephony (Recommendation ITU-T E.164 [i.1])		
If CC encoded in the URI is equal to the CC of the country	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 sar	located AND the next BICC/ISUP node is located in the same country then		
national (significant) number	national (significant) number		
else	5.55		
international number	international number		
Screening indicator=Network Provided	Screening indicator=Network Provided		
Presentation restriction=restricted	Presentation restriction=restricted		
Address signal derived from the P-Asserted-Identity	Address signal derived from the P-Asserted-Identity		
if NOA is "national (significant) number" then set to "NDC"			
If NOA is "international number" then set to "CC"+" NDC"+"			
SIP Parameter values INVITE: P-Asserted-Identity: present			
From: sip:unavailable@unknown.invalid			
Privacy: header			
Comments			
Message flows SIP NNI MGCF	SIP-I		
INVITE → → INVITE (IA	:		
100 Trying ←	M)		
Apply post test routine	·M)		

TP number	TP 401 014	Reference	[1], clause 7.2.1	
	1		[2], clauses 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		er present, P-Asserted-Identity	present. Privacy header not	
-	present, additional calling par			
Test Purpose		NVITE request the P-Asserted		
			ddress a Privacy header is not	
	present, an INVITE with enca			
		neter is present and the addres		
		e Presentation restriction indic		
		Party number is sent in a Ger		
		ed from the Userpart of the Fro	om header the Presentation	
	restriction indicator is set to 'p			
ISUP Parameter values	IAM: Calling party Number			
		e indicator=Complete		
			ommendation ITU-T E.164 [i.1])	
	Nature of Address			
		in the URI is equal to the CC o		
		e next BICC/ISUP node is loca	ated in the same country then	
		gnificant) number		
	else	l mumah an		
	internationa			
	Screening indicator=Network Provided Presentation restriction=allowed			
			andida.	
	if NOA is "notice	Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN"		
		national number" then set to "C		
	Additional calling pa		C + NDC + SN	
	Nature of Address			
		in the URI is equal to the CC o	f the country where MGCE is	
	located AND the next BICC/ISUP node is located in the same country then national (significant) number			
	else			
	international nu	ımher		
		e indicator=Complete		
			ommendation ITU-T E.164 [i.1])	
	Presentation restri			
		r=user provided not verified		
		ved from the 'From' header		
		nal (significant) number" then	set to "NDC" + "SN"	
		national number" set to "CC"+'		
SIP Parameter values	INVITE: P-Asserted-Identity	r: present		
	From: contains a U	IRI that encodes an E.164 [i.1]	address	
	Privacy not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	→	INVITE (IAM)	
	100 Trying	-	· · ·	
		Apply post test routine		
	•			

TP number	TP 401 015	Reference	[1], clause 7.2.1	
			[2], clauses 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			present. Privacy header 'none',	
-	additional calling party number	er not omitted		
Test Purpose		NVITE request the P-Asserted-		
		that encodes an E.164 [i.1] Ad		
		n Privacy header is present set		
		neter is present and the addres		
		e Presentation restriction indic		
		allowed'. An Additional calling Party number is sent in a Generic number parameter and		
		ed from the Userpart of the Fro	m header the Presentation	
	restriction indicator is set to 'p			
ISUP Parameter values	IAM: Calling party Number			
		e indicator=Complete		
			ommendation ITU-T E.164 [i.1])	
	Nature of Address		f the country whom MCCF is	
		in the URI is equal to the CC o		
		e next BICC/ISUP node is loca anificant) number	ited in the same country then	
	else	grillicarit) number		
	internationa	l number		
	Screening indicator=Network Provided Presentation restriction=allowed			
		rived from the P-Asserted-Ide	antity	
		nal (significant) number" then s		
		national number" then set to "C		
	Additional calling pa		70 1120 1011	
	Nature of Address			
		in the URI is equal to the CC o	f the country where MGCF is	
		e next BICC/ISUP node is loca		
	national (significant) number			
	else	•		
	international nu	ımber		
	Number incomplete	e indicator=Complete		
	Numbering Plan In	dicator=ISDN/Telephony (Reco	ommendation ITU-T E.164 [i.1])	
	Presentation restric			
		r=user provided not verified		
		ived from the 'From' header		
		nal (significant) number" then s		
		national number" set to "CC"+'	NDC'+'SN'	
SIP Parameter values	INVITE: P-Asserted-Identity	/: present		
		IRI that encodes an E.164 add	ress	
	Privacy: none			
Comments			OID :	
Message flows	SIP NNI	MGCF	SIP-I	
		→	INVITE (IAM)	
	100 Trying	•		
		Apply post test routine		

TP number	TP 401 016	Reference	[1], clause 7.2.1	
ir number	11 _401_010	Kelelelice	[2], clause 7.2.1	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/		7.2.0.1.2.0	
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1			
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'id',			
	additional calling party number not omitted			
Test Purpose	Ensure that on receipt of an I		ed-Identity is present and the	
•	From header contains an UR			
	encapsulated IAM is sent with	n Privacy header is present s	set to 'id'	
	A Calling party number paran	neter is present and the add	ress digits are derived from the	
		P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation		
	restricted'. An Additional calli	ng Party number is sent in a	Generic number parameter and	
	the Address signals are deriv	ed from the Userpart of the	From header the Presentation	
	restriction indicator is set to 'p	presentation restricted'		
ISUP Parameter values	IAM: Calling party Numbe	r		
		e indicator= <i>Complete</i>		
	Numbering Plan In	idicator= <i>ISDN/Telephony</i> (R	ecommendation ITU-T E.164 [i.1])	
	Nature of Address			
			C of the country where MGCF is	
			ocated in the same country then	
	national (si	gnificant) number		
	else			
	internationa			
	_	r=Network Provided		
	Presentation restriction=restricted			
		rived from the P-Asserted-		
		onal (significant) number" the		
		national number" then set to	"CC"+" NDC"+"SN"	
	Additional calling pa			
	Nature of Address		2 -f tht MOOF :-	
			C of the country where MGCF is	
			ocated in the same country then	
	national (signif	icani) number		
	else international nu	ımbar		
		e indicator=Complete		
			ecommendation ITU-T E.164 [i.1])	
	Presentation restri		econinendation 110-1 E.104 [i.1])	
		r=user provided not verified		
		ived from the 'From' heade	ar .	
		onal (significant) number" the		
		national number" set to "CC"		
SIP Parameter values	INVITE: P-Asserted-Identity		1120 1011	
c raidinotoi vaidos		JRI that encodes an E.164 [i	.11 address	
	Privacy: id		,	
Comments	asj. ia			
Message flows	SIP NNI	MGCF	SIP-I	
			→ INVITE (IAM)	
		←		
		Apply post test routine	e	
		Apply post test routilit	•	

TP number	TP 401 017	Reference	[1], clause 7.2.1			
			[2], clauses 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		NVITE request the P-Asserted-				
		that encodes an E.164 [i.1] Ad				
		Privacy header is present set				
		and the address digits are deri				
		Identity header the Presentation restriction indicator is set to 'presentation restricted'. An				
		er is sent in a Generic number				
		serpart of the From header the	e Presentation restriction			
	indicator is set to 'presentation					
ISUP Parameter values	IAM: Calling party Number					
		e indicator=Complete				
			ommendation ITU-T E.164 [i.1])			
	Nature of Address		f the country whom MOCF is			
		n the URI is equal to the CC of				
		e next BICC/ISUP node is loca nificant) number	ited in the same country then			
	else	milicant) number				
	internationa	number				
	Screening indicator=Network Provided Presentation restriction=restricted					
	Address signal derived from the P-Asserted-Identity					
		nal (significant) number" then s				
		national number" then set to "C				
		Additional calling party number				
	Nature of Address					
		n the URI is equal to the CC o	f the country where MGCF is			
		e next BICC/ISUP node is loca				
	national (significant) number					
	else					
	international nu	mber				
		indicator=Complete				
			ommendation ITU-T E.164 [i.1])			
	Presentation restric					
		=user provided not verified				
		ved from the 'From' header				
		nal (significant) number" then s				
		national number" set to "CC"+'	NDC'+'SN'			
SIP Parameter values	INVITE: P-Asserted-Identity		a diduca a			
	From: contains a URI that encodes an E.164 [i.1] address					
Comments	Privacy: user					
Comments Magazine flavor	LID MAIL	MCCE	ein i			
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE		INVITE (IAM)			
	100 Trying					
		Apply post test routine				

TP number	TP 401 018	Reference	[1], clause 7.2.1		
	1		[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/		·		
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1				
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header				
-	'header', additional calling party number not omitted				
Test Purpose		INVITE request the P-Asserted			
		ll that encodes an E.164 [i.1] <i>A</i>			
		vacy header is present set to '			
		meter is present and the addre			
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation				
			Generic number parameter and		
		ed from the Userpart of the Fr	om header the Presentation		
	restriction indicator is set to				
ISUP Parameter values	IAM: Calling party Number				
		te indicator=Complete			
			commendation ITU-T E.164 [i.1])		
	Nature of Address		of the country where MCCE is		
			of the country where MGCF is ated in the same country then		
		gnificant) number	ated in the same country then		
	else	grillicant) ridiribei			
	internation	al number			
	Screening indicator=Network Provided Presentation restriction=restricted				
		Address signal derived from the P-Asserted-Identity			
	if NOA is "nati	onal (significant) number" then	set to "NDC" + "SN"		
		rnational numbér" then set to "			
	Additional calling pa	arty number			
	Nature of Address	Indicator			
			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 n				
		te indicator=Complete	I (' ITH T 5 404 (' 41)		
			commendation ITU-T E.164 [i.1])		
	Presentation restr				
		or=user provided not verified			
		rived from the 'From' header onal (significant) number" then			
		rnational number" set to "CC"+			
SIP Parameter values	INVITE: P-Asserted-Identit		1100 - 011		
on i didilicter values	From: contains a URI that encodes an E.164 [i.1] address				
	Privacy: header				
Comments	asyaadi				
Message flows	SIP NNI	MGCF	SIP-I		
		→ → →			
		←			
		Apply post test routine			
		Apply post tost routine			

TP number	TP_401_019	Reference	[1], clause 7.2.1 [2], clauses 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	INVITE received. From he	INVITE received. From header present, P-Asserted-Identity present. Privacy header not			
	present, additional calling party number omitted				
Test Purpose			Asserted-Identity is present and the		
			64 [i.1] Address a Privacy header is not		
	present, an INVITE with e				
			he address digits are derived from the		
			ction indicator is set to 'presentation		
	allowed'. An Additional ca		neter is not present		
ISUP Parameter values	IAM: Calling party Nun				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator=ISDN/Telephony (Recommendation ITU-T 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				
			ber" then set to "NDC" + "SN"		
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Ide	• •			
	From: contains a URI that encodes an E.164 [i.1] address				
	Privacy not pre	esent			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ (INVITE) IAM		
	100 Trying ←				
		Apply post test	routine		

TP number	TP_401_020	Reference	[1], clause 7.2.1 [2], clauses 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			d-Identity present. Privacy header 'none',		
Test Purpose	additional calling party number omitted Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
rest Furpose			64 [i.1] Address a Privacy header is set		
		encapsulated IAM is sent			
			ne address digits are derived from the		
			ction indicator is set to 'presentation		
		alling Party number param			
ISUP Parameter values	IAM: Calling party Nu		icter is not present		
loor rarameter values					
	Number incomplete indicator= <i>Complete</i> Numbering Plan Indicator= <i>ISDN/Telephony</i> (Recommendation ITU-T 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) numb	per" then set to "NDC" + "SN"		
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Id	entity: present			
	From: contains a URI that encodes an E.164 [i.1] address				
	Privacy: none				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	100 Trying ←				
		Apply post test	routine		

TP number	TP 401 021	Reference	[1], clause 7.2.1		
TT Hamber	11 _401_021	Kelelellee	[2], clauses 7.5.1,		
			7.2.3.1.2.6		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.3/6 AND PI	CS 6 3 2/1			
Test Purpose name			d-Identity present. Privacy header 'id',		
Toot i di possi iidilis		additional calling party number omitted			
Test Purpose			-Asserted-Identity is present and the		
			64 [i.1] Address a Privacy header is set		
		encapsulated IAM is sent	,		
			he address digits are derived from the		
			ction indicator is set to 'presentation		
		onal calling Party number para			
ISUP Parameter values	IAM: Calling party	· · ·			
	Number incomplete indicator=Complete				
	Numbering Plan Indicator=/SDN/Telephony (Recommendation ITU-T 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				
			ber" then set to "NDC" + "SN"		
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted	d-Identity: present			
		tains a ÚRÍ that encodes an l	E.164 [i.1] address		
	Privacy: id				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ IAM		
	100 Trying ←				
		Apply post test	routine		

TP number	TP_401_022	Reference	[1], clause 7.2.1 [2], clauses 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			d-Identity present. Privacy header 'user',		
Test Purpose	additional calling party number omitted Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the				
restruipose			64 [i.1] Address a Privacy header is set		
		encapsulated IAM is sent	04 [i. i] Addiess a i livacy licadel is set		
			ne address digits are derived from the		
			tion indicator is set to 'presentation		
		calling Party number para			
ISUP Parameter values	IAM: Calling party Nu				
leer rarameter variate		nplete indicator=Complete			
	Numbering Plan Indicator= <i>ISDN/Telephony</i> (Recommendation ITU-T 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				
			per" then set to "NDC" + "SN"		
	If NOA is "international number" then set to "CC"+" NDC"+"SN"				
SIP Parameter values	INVITE: P-Asserted-Ide	entity: present			
	From: contains a URI that encodes an E.164 [i.1] address				
	Privacy: user				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	100 Trying ←				
		Apply post test i	routine		

TP number	TP_401_023	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.3/6 AND PICS			
Test Purpose name	INVITE received. From h 'header', additional callin		-Identity present. Privacy header	
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the From header contains an URI that encodes an E.164 [i.1] Address a Privacy header is set to 'header', an INVITE with encapsulated 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 parameter is not present			
ISUP Parameter values			neter is not present	
	IAM: Calling party Number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation ITU-T E.164 [i.1]) Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then national (significant) number else international number Screening indicator=Network Provided Presentation restriction=restricted Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is "international number" then set to "CC"+" NDC"+"SN"			
SIP Parameter values		entity: present s a URI that encodes an E. er	164 [i.1] address	
Comments				
Message flows	SIP NNI INVITE 100 Trying	MGCF → ← Apply post test r	SIP-I → INVITE (IAM) outine	

TP number	TP_401_02	24	Reference	[1], clause 7.3.1 [2], clauses 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 not receiv	ed, Additional calling party r	number not received,
	unavailable	From header is ser	nt	
Test Purpose	Ensure that	t on receipt of an IN	VITE with encapsulated IAM	and no Calling party number
	and no Add	litional calling party	number is present, an INVIT	E is sent. A P-Asserted-Identity
	is not prese	ent and the URI of th	e From header is set to 'sip:	unavailable@unknown.invalid
ISUP Parameter values	IAM: Calling party number not present			
	Gen	eric number (Addition	onal calling party number) no	ot present
SIP Parameter values	INVITE: F	rom: sip:unavailabl	e@unknown.invalid	
	P-Asserted-Identity not present			
Comments				
Message flows	SI	P-I	MGCF	SIP NNI
	INVITE (IAI	M) →	→	INVITE
	,	•	+	100 Trying
	Apply post test routine			

TP number	TP_401_025	Reference	[1], clause 7.2.1 [2], clauses 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	allowed, From header	containing a E.164 [i.1] URI i		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated 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 nu Generic number	•	nber) present presentation allowed	
SIP Parameter values		ed from the additional calling Identity not present	party number or network provided	
Comments				
Message flows	SIP NNI INVITE (IAM)	MGCF → Apply post test r	SIP-I → INVITE ← 100 Trying outine	

TP number	TP 401 026	Reference	[1], clause 7.3.1		
			[2], clauses 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		not received, Additional calling e From header is sent	g party number received presentation		
Test Purpose	Ensure that on receip and an Additional call	Ensure that on receipt of an INVITE with encapsulated 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	0. ,	iumber not present er (Additional calling party nun	nber) present presentation restricted		
SIP Parameter values		unavailable@unknown.invalid d-Identity not present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
			100 Trying		
	Apply post test routine				

TP number	TP_401_027	Reference	[1], clause 7.3.1 [2], clauses 7.5.1, 7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/		1.2.3.2.2.3	
Selection criteria	PICS 6.3.2/1			
Test Purpose name	0. ,	l presentation allowed, Addition header and From header are se	01)	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the calling party number. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values	IAM: Calling party number present presentation allowed Generic number (Additional calling party number) not present			
SIP Parameter values	INVITE: From derived from the calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE 100 Trying	
	Apply post test routine			

TP number	TP_401_028	Reference	[1], clause 7.3.1 [2], clauses 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			Additional calling party number eader and From header are sent	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation allowed' and an Additional calling party number is present the Presentation restriction indicator is set to 'presentation allowed', an INVITE is sent A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is derived from the address signals of the additional calling party number. A Privacy header is not present or if present the value is not equal to 'id'			
ISUP Parameter values	IAM: Calling party number present presentation allowed Generic number (Additional calling party number) present presentation allowed			
SIP Parameter values	INVITE: From derived from the additional calling party number P-Asserted-Identity derived from the calling party number Privacy not 'id' or Privacy header not present			
Comments				
Message flows	SIP-I INVITE (IAM) →	MGCF Apply post test ro	SIP NNI → INVITE ← 100 Trying utine	

TP number	TP_401_029	Reference	[1], clause 7.3.1 [2], clauses 7.5.1,	
			7.2.3.2.2.3	
TSS reference	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1			
Test Purpose name	Calling party number received presentation allowed, Additional calling party number received presentation restricted, P-Asserted-Identity header and From header are sent			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated 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	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
	Apply post test routine			

TP number	TP_401_030	Reference	[1], clause 7.3.1 [2], clauses 7.5.1,		
			7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1				
Test Purpose name	Calling party number received presentation restricted, Additional calling party number not received, P-Asserted-Identity header and From header are sent				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Calling party number Presentation restriction indicator is set to 'presentation restricted' and an Additional calling party number is not present, an INVITE is sent. A P-Asserted-Identity is present the URI is derived from the address signals of the calling party number and the URI of the From header is ser to 'sip:anonymous@anonymous.invalid'. A Privacy header is present the value is equal to 'id'				
ISUP Parameter values	IAM: Calling party number present presentation restricted Generic number (Additional calling party number) not present				
SIP Parameter values	INVITE: From: sip:anonymous@anonymous.invalid P-Asserted-Identity derived from the calling party number Privacy: 'id'				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	Apply post test routine				

TP number	TP_401_031	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.1,		
			7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1				
Test Purpose name	Calling party number received presentation restricted, Additional calling party number				
	received presentation allowed, P-Asserted-Identity header and From header are sent				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated 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	01 7	resent presentation restricted			
	Generic number (Additional calling party number) present presentation allowed				
SIP Parameter values		INVITE: From derived from the additional calling party number			
	P-Asserted-Identity derived from the calling party number				
	Privacy: 'id'				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	Apply post test routine				

TP number	TP_401_032	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.1,		
			7.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/	IMS-SS/OIP-OIR/			
Selection criteria	PICS 6.3.2/1	PICS 6.3.2/1			
Test Purpose name	Calling party number received presentation restricted, Additional calling party number				
	received presentation restricted, P-Asserted-Identity header and From header are sent				
Test Purpose	Ensure that on receipt of an INVITE with encapsulated 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		nber present presentation re			
		Generic number (Additional calling party number) present presentation restricted			
SIP Parameter values		INVITE: From: sip:anonymous@anonymous.invalid			
		P-Asserted-Identity derived from the calling party number			
	Privacy: 'id'				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
			100 Trying		
		Apply post test routine			

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

TP number	TP_402_001	Reference	[1], clause 7.3.1
			[2], clause 7.5.2
TSS reference	IMS-SS/TIP-TIR/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	2	
Test Purpose name	INVITE is sent the supported h	eader contains the option tag '	from-change'
Test Purpose	Ensure that on receipt of an IN		
	Identity Request indicator in the		
	'requested', an INVITE is sent	and the Supported header cont	ains the option tag 'from-
	change'		
ISUP Parameter values	IAM: Optional Forward Call Indicators		
	Connected Line Identity Request = requested		
SIP Parameter values	INVITE: Supported: from-change		
	INVITE (IAM): from-change tag not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
		←	100 Trying
	Apply post test routine		

TP number	TP_402_002	Reference	[1], clause 7.3.1	
			[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.1/2 AND PICS 6	5.3.2/2		
Test Purpose name	'from-change' tag not inclu	uded in a received provisi	onal response	
Test Purpose			d the 'from-change' tag is not included	
		ncapsulated ANM is sent	as soon as the 200 OK (INVITE) is	
	received			
ISUP Parameter values	IAM: Optional Forward (
	Connected Line	e Identity Request = reque	ested	
SIP Parameter values	INVITE: Supported: fror	n-change		
	180 : from-change tag not included in the Supported header			
	INVITE (IAM)/180: from-c	INVITE (IAM)/180: from-change tag not present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	180 Ringing (ACM)	[← 180 Ringing	
	200 OK (INVITE)	F	← 200 OK (INVITE)	
	(ANM)			
	· ,	→	→ ACK	
	Apply post test routine			

TP number	TP_402_003	Reference	[1], clause 7.3.1	
			[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/2		
Test Purpose name		ed 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 200 OK INVITE	E with encapsulated ANM is sent		
ISUP Parameter values	IAM: Optional Forward Ca	all Indicators		
	Connected Line	dentity Request = requested		
SIP Parameter values	INVITE: Supported: from-change			
	200: from-change tag not included in the Supported header			
	INVITE (IAM)/200: from-change tag not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
	180 Ringing (ACM) ← 180 Ringing			
	200 OK INVITE (ANM) ← 200 OK (INVITE)			
	ACK →	→	ACK	
		Apply post test routine		

TP number	TP_402_004	Reference	[1], clause 7.3.1	
		11010101100	[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/		14 17	
Selection criteria	PICS 6.3.1/2 AND PICS	PICS 6.3.1/2 AND PICS 6.3.2/2		
Test Purpose name		'from-change' tag included in a received provisional response		
Test Purpose	Ensure that on receipt of a provisional response and the 'from-change' tag is included the timer T _{TIR1} is started. The 200 OK INVITE with encapsulated ANM is sent as soon as the UPDATE request is received and a Generic number with a Number qualifier indicator set to			
	follows: Nature of Address In If CC is equal to t ISUP node is loca	'additional connected number' is present. The additional connected number is coded as follows: Nature of Address Indicator If CC is equal to the country code of the country where SUT is located AND the next ISUP node is located in the same country, then set to "national (significant) number" else set to		
	Number Incomplete I	Indicator = complete		
	Numbering Plan Indic E.164)	cator = ISDN (Telephony) i	numbering plan (Recommendation	
		n Restricted Indicator = Pri	vacy_VA as indicate in table 6.3.2-1	
		= user provided, not verified		
	Address Signals	Address Signals		
		If NOA is "national (significant) number" then set to NDC + SN.		
		If NOA is "international number" then set to CC + NDC + SN		
	In addition a Connected number is present the address signal are derived from the			
ISUP Parameter values	P-Asserted-Identity in UPDATE request IAM: Optional Forward Call Indicators			
ISOF Farameter values	Connected Line Identity Request = requested			
	ANM: Connected numb		55164	
		- additional connected num	ber	
SIP Parameter values	INVITE: Supported: fro			
		included in the Supported h	neader	
		-change tag not present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM)	→	→ INVITE	
	180 Ringing (ACM)	←	← 180 Ringing	
		T _{TIR1} started	← 200 OK (INVITE)	
		TIIXI	→ ACK	
	200 OK INVITE (ANM) ACK	← →	← UPDATE→ 200 OK (UPDATE)	
		Apply post test r		

TP number	TP_402_005	Reference	[1], clause 7.3.1	
			[2], clause 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 included in a received final response		
Test Purpose	the timer T _{TIR1} is started. T	Ensure that on receipt of a final successful response and the 'from-change' tag is included the timer T _{TIR1} is started. The 200 OK IVITE with encapsulated ANM is sent as soon as the UPDATE request is received and a Generic number with a Number qualifier indicator set to		
		'additional connected number' is present. The additional connected number is coded as		
	Nature of Address Indic		curbara CLIT is legated AND the part	
		d in the same country, then	where SUT is located AND the next set to	
	else set to	,		
	"international null Number Incomplete Indi			
			nbering plan (Recommendation	
		estricted Indicator = Privac	y_VA as indicate in table 6.3.2-1	
		ser 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 In addition a Connected number is present the address signal are derived from the		
	P-Asserted-Identity in UPD		s signal are derived from the	
ISUP Parameter values	IAM: Optional Forward Ca			
SOF Farameter values		ldentity Request = requeste	ad	
	ANM: Connected number	defility request – requeste	,u	
		Iditional connected number		
SIP Parameter values	INVITE: Supported: from-			
	200: from-change tag included in the Supported header			
	INVITE (IAM)/200: from-change tag not present			
Comments	ì	•		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →		→ INVITE	
	180 Ringing (ACM) ←		← 180 Ringing	
	T _{TIR1} started ← 200 OK (INVITE)			
	→ ACK			
	200 OK INVITE (ANM) ←		← UPDATE	
	ACK →		→ 200 OK (UPDATE)	
		Apply post test rout	tine	

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

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

TP number	TP_402_006	Reference	[1], clause 7.3.1	
			[2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/2		
Test Purpose name	Timer T _{TIR1} expires			
Test Purpose	Ensure that on receipt of	f a 200 OK (INVITE) and th	ne 'from-change' tag is present in the	
	Supported header the tir	ner T _{TIR1} is started. After e	expiry of T _{TIR1} the 200 OK INVITE with	
	encapsulated ANM is se	nt		
ISUP Parameter values	IAM: Optional Forward	Call Indicators		
		ne Identity Request = requ	ested	
	ANM: Connected numb			
SIP Parameter values	INVITE: Supported: fro	om-change		
		200: from-change tag included in the Supported header		
	INVITE (IAM)/200: from-	-change tag not present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	180 Ringing (ACM)	-	180 Ringing	
		T _{TIR1} started	← 200 OK (INVITE)	
			→ ACK	
	200 OK INVITE (ANM)	← T _{TIP1} expired		
	ACK	→ · · · · · · · · · · · · · · · · · · ·		
	1.0.0	Apply post test i	routine	

TP number	TP_402_007	Reference	[1], clause 7.2.1	
			[2], clause 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	Interworking of SIP Supported	header into Optional forward c	all indicator	
Test Purpose	Ensure that on receipt of an INVITE request and the Supported header contains the 'from-change' tag, an INVITE with encapsulated IAM is sent. The Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested'			
ISUP Parameter values	IAM: Optional Forward Call In Connected Line Ider	ndicators ntity Request = requested		
SIP Parameter values	INVITE: Supported: from-change INVITE (IAM): from-change tag not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
-	INVITE ->	→	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

TP number	TP_402_008	Reference	[1], clause 7.2.1 [2], clause 7.5.2	
TSS reference	IMS-SS/TIP-TIR/		[[2], Gause 7.0.2	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/2		
Test Purpose name			tion allowed into the From header in an	
-	UPDATE request	UPDATE request		
Test Purpose	Ensure that on receipt of a 200 OK INVITE with encapsulated 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 200 OK INVITE with encapsulated 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"			
	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"			
ISUP Parameter values	Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used IAM: Optional forward call indicator 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=""> INVITE (IAM)/200: from-change tag not present</derived>			
Comments		<u> </u>		
Message flows	SIP NNI INVITE → 180 Ringing ← 200 OK (INVITE) UPDATE ← 200 OK (UPDATE)	MGCF Apply post test i	SIP-I → INVITE (IAM) ← 180 Ringing (ACM) ← 200 OK INVITE (ANM) → ACK	

TP_402_009	Reference	[1], clause 7.2.1 [2], clause 7.5.2	
IMS-SS/TIP-TIR/		[[E], siddee 1.6.E	
PICS 6.3.1/2 AND PICS 6.3.2	/2		
Mapping of Additional connect an UPDATE request			
Ensure that on receipt of a 200 OK INVITE with encapsulated ANM and a Generic number additional connected number is present, a 200 OK (INVITE) is sent and the P-Asserted-Identity copied from the P-Called-Party-ID header and the 'from-change' tag in the Supported header is present. The 200 OK (INVITE) is followed by an UPDATE request, containing the 'additional connected number' received in the ANM copied into the From header as described below: Generic number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used "international number" Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header			
The P-Asserted-Identity is derived from the Connected number as follows: Connected number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used "international number" Map complete Connected Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header			
IAM: Optional forward call indicator Connected Line Identity Request = requested ANM: Generic number additional connected number Address Presentation restriction indicator = presentation restricted			
INVITE: Supported: from-change 200 OK: P-Asserted-Identity Supported: from-change UPDATE: From: <derived additional="" connected="" from="" number="" the=""> P-Asserted-Identity: <derived connected="" from="" number="" the=""> INVITE (IAM)/200: from-change tag not present</derived></derived>			
SIP NNI INVITE → 180 Ringing ← 200 OK (INVITE) UPDATE ← 200 OK (UPDATE) →	(180 Ringing (ACM) 200 OK INMVITE (ANM)	
	IMS-SS/TIP-TIR/ PICS 6.3.1/2 AND PICS 6.3.2 Mapping of Additional connect an UPDATE request Ensure that on receipt of a 20d additional connected number in P-Asserted-Identity copied from the Supported header is presed containing the 'additional connected number as described below: Generic number Nature of Address Indicator "national (significant) number Map complete Generic portion of URI scheme Address Presentation restricted the Address Signals: "+" CC NDC The P-Asserted-Identity is der Connected number Nature of Address Indicator "national (significant) number Add "+" CC (of the coun Address Signals then in mational (significant) number Nature of Address Indicator "national (significant) number Add "+" CC (of the coun Address Signals then in mational number Map complete Connected portion of URI scheme Address Presentation restricted the Address Presentation restricted the Address Signals: "+" CC NDC IAM: Optional forward call in Connected Line Idea ANM: Generic number additional connected Address Presentation restricted the Idea ANM: Generic number Supported: from-changed Connected In Idea ANM: Generic number Address Presentation restricted the Idea ANM: Generic number Supported: from-changed Connected In Idea ANM: Generic number Address Presentation restricted from P-Asserted-Identity Supported: from-changed In Invite Informational Connected In Idea ANM: Generic number Address Presentation restricted from P-Asserted-Identity Supported: from-changed Invite Informational Connected In Invite Inv	IMS-SS/TIP-TIR/ PICS 6.3.1/2 AND PICS 6.3.2/2 Mapping of Additional connected number presentation rest an UPDATE request Ensure that on receipt of a 200 OK INVITE with encapsulat additional connected number is present, a 200 OK (INVITE) beat the Supported header is present. The 200 OK (INVITE) is f containing the 'additional connected number' received in the Addreas a described below: Generic number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located Signals then map to user portion of URI scheme use "international number" Map complete Generic Number Address Signals use portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used Address Signals in the map to user portion of URI scheme used Address Signals in the connected number (significant) number" Add "+" CC (of the country where the IWU is located Address Signals then map to user portion of URI scheme used Address Signals then map to user portion of URI scheme used Address Presentation restriction indicator presentation of URI scheme used Address Presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used Address Presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used Address Presentation restricted then Privacy: header Address Presentation restriction indicator Connected Line Identity Request = requested ANM: Generic number Address Presentation restriction indicator Connected Line Identity Request = requested ANM: Generic number Address Presentation restriction indicator Supported: from-change UPDATE: From: <dri> INVITE: Supported: from-change UPDATE: From: <dri> INVITE</dri></dri>	

6.3.3 Communication Diversion (CDIV)

TP number	TP_403_001	Reference	[1], clause 7.3.1
			[2], clause 7.5.4.2.1,
			table 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 hi-targeted-to-uri int	o 181 (Call Is Being Forv	varded) or 183 Session
	Progress with encapsulated ACM Re		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) an 181 (Call Is Being Forwarded) or 183 Session Progress with encapsulated ACM is sent. The History-Info entry containing a cause parameter is mapped into the Redirection number: • If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the		
	country code is removed from the Redirection number	ne digit string and sent in	the Address signal of the
	 If the country code of the hi-targ SUT is located: Nature of addre removed from the digit string an 	ss indicator is set to 'inte	ernational number' '+' is
ISUP Parameter values	ACM: Generic Notification		
	Redirection number		
	Nature of address indicator		
	Address signal		
	Derived from the last l	History-Info entry	
SIP Parameter values	181:	DIS. in day=4	
	History-Info: <sip:any proper="" th="" u<=""><th>RI<i>></i>; index= i, RI;cause=any>; index=1.</th><th>1</th></sip:any>	RI <i>></i> ; index= i, RI;cause=any>; index=1.	1
	183/181 (ACM): History-Info not pre		. 1
Comments	100/101 (AOM). History-line not pre	,30111	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→ →	NVITE 181 Call Is Being Forwarded
	CASE A		
	183 Session Progress (ACM)	←	
	CASE B		
	181 Call Is Being Forwarded (ACM)		
	Ap	ply post test routine	

TP number	TP_403_001A	Reference	[1], clause 7.3.1		
			[2], clause 7.5.4.2.1,		
			table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/		14510 7.0.1.2.1.2		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Sending of Generic Notification in AC				
Test Purpose	Ensure that on receipt of 181 (Call Is		on 193 Sossion Progress or 193		
rest Furpose	Session Progress with encapsulated				
			ienc Notification parameter is sent		
IOUD D	in the encapsulated ACM set to 'call i	s diverting			
ISUP Parameter values	ACM: Generic Notification				
	call is diverting				
SIP Parameter values	181:				
	History-Info: <sip:any proper="" th="" ur<=""><th></th><th></th></sip:any>				
	<sip:any proper="" th="" ur<=""><th>l;cause=any>; inde</th><th>x=1.1</th></sip:any>	l;cause=any>; inde	x=1.1		
	183/181 (ACM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	, ,		← 181 Call Is Being Forwarded		
	CASE A		- 101 Jan 10 Jonnig 1 J. Maraba		
	183 Session Progress (ACM)	←			
	103 Session Flogress (ACIVI)	•			
	CASE B				
	181 Call Is Being Forwarded (ACM)	←			
		ly post test routin	e		

TP number	TP_403_002	Reference	[1], clause 7.3.1	
			[2], clause 7.5.4.2.1,	
			table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped Privacy	y header into 181 (Call Is E	Being Forwarded) or 183 Session	
	Progress with encapsulated ACM	M Redirection number rest	riction	
Test Purpose	Ensure that on receipt of 181 (C	all Is Being Forwarded), a	181 (Call Is Being Forwarded) or	
	183 Session Progress with enca			
	The Redirection number restricti	on is set according the es	caped Privacy header in the	
	last History entry as indicated in table 6.3.3-1			
ISUP Parameter values	ACM: Redirection number restriction= PRES_restr			
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
	181/183 (ACM): History-Info not	181/183 (ACM): History-Info not present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	, ,		← 181 Call Is Being Forwarded	
	CASE A		3	
	183 Session Progress (ACM)	←		
	3 (1 ,			
	CASE B			
	181 Call Is Being Forwarded (AC	CM) ←		
		Apply post test routine		

TP number	TP 403 003	Reference	[1], clause 7.3.1		
i P number	17_403_003	Reference	·		
			[2], clause 7.5.4.2.1,		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/				
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 Privacy heade	er into 181 (Call Is Being f	Forwarded) or 183 Session		
	Progress with encapsulated ACM Redirection number restriction				
Test Purpose	Ensure that on receipt of 181	(Call Is Being Forwarded)	, a 181 (Call Is Being Forwarded) or		
	183 Session Progress with en	capsulated ACM is sent	,		
	The Redirection number restri	ction is set according the	Privacy header as indicated in		
	table 6.3.3-1	j j			
ISUP Parameter values	ACM: Redirection number restriction= PRES_restr				
SIP Parameter values	181:				
	Privacy= Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>				
	181/183 (ACM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
			← 181 Call Is Being Forwarded		
	CASE A				
	0.10= 1.				
	101 Can le Benig i et varacu				
	(ACM)				
	CASE B				
	183 Session Progress (ACM)	←			
	122 2 2 2 2 2 2 2 2 3 3 3 3 5 5 5 6 1 3 3 3 3 5 5 6 1 3 3 3 3 3 5 5 6 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Apply post test routi	ine		
	Apply post test routile				

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

VA value of 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	[1], clause 7.3.1	
			[2], clause 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/	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 Privacy header into 181 (Call Is Being Forwarded) or 183 Session			
-	Progress with encapsulated A	Progress with encapsulated ACM Notification subscription options		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) conta	aining a Privacy header, a 181	
-	(Call Is Being Forwarded) or 18			
	The Notification subscription of	otions in the Call Diversion Info	ormation parameter is set	
	according the Privacy header i	n the message body as indicat	ed in table 6.3.3-2	
ISUP Parameter values	ACM: Call Diversion Information			
	Notification subscrip	Notification subscription options=SUBS_options		
SIP Parameter values	181:	181:		
	Privacy: Priv-value			
	History-Info: <sip:any proper="" uri;cause="any" value="">; index=1,</sip:any>			
	<sip:any proper="" uri="">; index=1.1</sip:any>			
	181/183 (ACM): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→ →	INVITE	
	← 181 Call Is Being Forwarded			
	CASE A			
	181 Call Is Being Forwarded			
	(ACM)			
	CASE B			
	183 Session Progress (ACM) ←			
	Apply post test routine			

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

VA value of 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	[1], clause 7.3.1			
			[2], clause 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 Privacy header into 181 (Call Is Being Forwarded) with or 183					
	Session Progress encapsulate					
Test Purpose	Ensure that on receipt of 181 (
	containing an escaped Privacy		-targeted-to-uri, a 181 (Call Is			
	Being Forwarded) with encaps	sulated ACM is sent				
			n Information parameter is set			
	according the escaped Privacy	y header in the last History	y entry as indicated in table 6.3.3-3			
ISUP Parameter values	ACM: Call Diversion Information					
	Notification subscrip	otion options=SUBS_opti	ons			
SIP Parameter values	181:					
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>					
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>					
	181/183 (ACM): History-Info not present					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
		← 181 Call Is Being Forwarded				
	CASE A					
	181 Call Is Being Forwarded ←					
	(ACM)					
	CASE B					
	183 Session Progress (ACM) ←					
	Apply post test routine					

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

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

TP number	TP 403 006	Reference	[1], clause 7.3.1		
			[2], clause 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	2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-uri into 181 (Call Is Being Forwarded) or 183 Session				
-	Progress with encapsulated A	Progress with encapsulated ACM Redirecting Reason			
Test Purpose	Ensure that on receipt of 181	(Call Is Being Forwarded)	a 181 (Call Is Being Forwarded) or		
	183 Session Progress with er	capsulated ACM is sent. T	The cause parameter of the last		
			II Diversion Information parameter		
	is set as indicated in table 6.3	.3-4			
ISUP Parameter values	ACM: Redirection number				
	Call Diversion Information				
	Redirecting reason	= Redirecting_Reason			
SIP Parameter values	181:	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="CAUSE_value">; index=1.1</sip:any>				
	181/183 (ACM): History-Info	181/183 (ACM): History-Info not present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
		← 181 Call Is Being Forwarded			
	CASE A				
	181 Call Is Being Forwarded ←				
	(ACM)				
	CASE B				
	183 Session Progress (ACM) ←				
	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	[1], clause 7.3.1	
			[2], clause 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 PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-	uri cause paramete	er into 181 Call Is Being Forwarded with or	
	183 Session Progress encapsu			
Test Purpose			arded) a 181 (Call Is Being Forwarded) or	
	183 Session Progress with end	apsulated CPG is	sent. The Event indicator is set to	
	'Redirecting_Reason' as indic	ated in table 6.3.3	-5	
ISUP Parameter values	CPG: Event=Redirecting_Re	ason		
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>			
	181/183 (CPG): History-Info no	ot present		
Comments				
Message flows	SIP-I	MG	CF SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	180 Ringing (ACM)	←	← 180 Ringing	
			← 181 Call Is Being Forwarded	
	CASE A		3	
	181 Call Is Being Forwarded ←			
	(CPG)			
	(/			
	CASE B			
	183 Session Progress (CPG) ←			
		Apply post tes	t routine	

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

VA Value	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	[1], clause 7.3.1	
Ti Hamber	11 _403_000	Kelelelice	[2], clause 7.5.4.2.1,	
			table 7.5.4.2.1.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 hi-targeted-to-		arded or 183 Session	
rest i dipose name	Progress with encapsulated Cl		arded or 100 0e331011	
Test Purpose	Ensure that on receipt of 181 (1 (Call Is Being Forwarded) or	
	183 Session Progress with the encapsulated CPG is sent. The History-Info entry containing			
	a cause parameter is mapped into the Redirection number:			
		uri is equal the country code v	where the SUT is located:	
		or is set to 'national (significa		
		rom the digit string and sent in		
	Redirection number	3 3	3	
	If the country code of the hi-targeted-to-uri is not equal the country code where the			
	SUT is located: Nature of address indicator is set to 'international number' '+' is			
	removed from the digit string and sent in the Address signal of the Redirection number			
ISUP Parameter values	CPG: Redirection number			
	Nature of address indicator			
	Address signal			
	Derived from the last History-Info entry			
SIP Parameter values	181:			
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>			
	181/183 (CPG): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)		INVITE	
	180 Ringing (ACM)		180 Ringing	
	← 181 Call Is Being Forwarded			
	CASE A			
	181 Call Is Being Forwarded			
	(CPG)			
	CASE B			
	183 Session Progress (CPG)			
		Apply post test routine		

TP number	TP_403_008A	Reference		[1], clause 7.3.1	
				[2], clause 7.5.4.2.1,	
				table 7.5.4.2.1.2	
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5			
Test Purpose name	Sending of Generic Notification	on in the encaps	sulated CPG		
Test Purpose	Ensure that on receipt of 181				
	181 (Call Is Being Forwarded) or 183 Sessio	n Progress with th	e encapsulated CPG is sent.	
	A Generic Notification parame	eter is sent in th	e CPG message	set to 'call is diverting'	
ISUP Parameter values	CPG: Generic Notification			_	
	call is diverting				
SIP Parameter values	181:				
	History-Info: <sip:any pro<="" th=""><th>oper URI>; inde</th><th>x=1,</th><th></th></sip:any>	oper URI>; inde	x=1,		
		•	e=any>; index=1.1	1	
	181/183 (CPG): History-Info not present				
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	→	→	NVITE	
	180 Ringing (ACM)	←	←	180 Ringing	
	3 3 (1)			181 Call Is Being Forwarded	
	CASE A				
	181 Call Is Being Forwarded	←			
	(CPG)	•			
	,				
	CASE B				
	183 Session Progress (CPG)	←			
	,	Apply post	test routine		

TP number	TP_403_008B	Reference	[1], clause 7.3.1		
			[2], clause 7.5.4.2.1, table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/		table 7.5.4.2.1.2		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Sending of CPG Event indicator '	Progress'			
Test Purpose	Ensure that on receipt of 181 (Ca		181 (Call Is Being Forwarded) or		
-	183 Session Progress with the er	ncapsulated CPG is sent.	The Event indicator in the		
	encapsulated CPG is set to 'Prog	ress'			
ISUP Parameter values	CPG: Event indicator				
	Progress				
SIP Parameter values	181:				
	History-Info: <sip:any proper<="" th=""><th>r URI>; index=1,</th><th></th></sip:any>	r URI>; index=1,			
		er URI;cause=any>; index	=1.1		
	181/183 (CPG): History-Info not	present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)		→ INVITE		
	180 Ringing (ACM)		← 180 Ringing		
			← 181 Call Is Being Forwarded		
	CASE A				
	181 Call Is Being Forwarded	←			
	(CPG)				
	CASE B				
	183 Session Progress (CPG)	←			
	• • • • • • • • • • • • • • • • • • • •	Apply post test routine			

TP number	TP_403_009	Reference	[1], clause 7.3.1		
			[2], clause 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/				
Test Purpose name			Being Forwarded or 183 Session		
	Progress with encapsulated Cl				
Test Purpose			a 181 (Call Is Being Forwarded) or		
	183 Session Progress with end				
			escaped Privacy header in the		
	last History entry as indicated i	in table 6.3.3-1			
ISUP Parameter values	CPG: Redirection number res	triction = PRES_restr			
SIP Parameter values	181:				
	History-Info: <sip:any pro<="" th=""><th>per URI>; index=1,</th><th></th></sip:any>	per URI>; index=1,			
	<sip:any pro<="" th=""><th>per URI;cause=any value′</th><th>?<i>Privacy=Priv-value</i>>; index=1.1</th></sip:any>	per URI;cause=any value′	? <i>Privacy=Priv-value</i> >; index=1.1		
	181/183 (CPG): History-Info no	ot present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
			← 181 Call Is Being Forwarded		
	CASE A				
	181 Call Is Being Forwarded ←				
	(CPG)				
	(3. 3)				
	CASE B				
	183 Session Progress (CPG)	←			
		Apply post test routing	ne		

TP number	TP_403_010	Reference	[1], clause 7.3.1		
			[2], clause 7.5.4.2.1,		
			table 7.5.4.2.1.3		
TSS reference	IMS-SS/CDIV/	•	·		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5			
Test Purpose name	Mapping of 181 Privacy heade	er into early 181 Call Is Beir	ng Forwarded or 183 Session		
	Progress with encapsulated C	PG Redirection number res	striction		
Test Purpose	Ensure that on receipt of 181	(Call Is Being Forwarded),	a 181 Call Is Being Forwarded		
	with or 183 Session Progress				
		ction is set according the P	Privacy header as indicated in		
	table 6.3.3-1.				
ISUP Parameter values	CPG: Redirection number res	striction = PRES_restr			
SIP Parameter values	181:				
	Privacy= Priv-value				
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>				
		per URI;cause=any value>	; index=1.1		
	181/183 (CPG): History-Info n	ot present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
			← 181 Call Is Being Forwarded		
	CASE A		-		
	181 Call Is Being Forwarded	←			
	(CPG)				
	CASE B				
	183 Session Progress (CPG)	←			
	9 (==,	Apply post test routin	e		

TP number	TP_403_011	Reference	[1], clause 7.3.1 [2], clause 7.5.4.2.1,		
			[2], clause 7.5.4.2.1, table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	1			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/5			
Test Purpose name	Mapping of 181 Privacy heade with encapsulated CPG Notific		rded or 183 Session Progress		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) containing a Privacy header, a 181 (Call Is Being Forwarded) or 183 Session Progress with encapsulated 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>				
Comments		•			
Message flows	SIP-I INVITE (IAM) 180 Ringing (ACM) CASE A 181 Call Is Being Forwarded	(SIP NNI NVITE 180 Ringing 181 Call Is Being Forwarded		
	(CPG) CASE B 183 Session Progress (CPG)	← Apply post test routine			

TP number	TP_403_012	Reference	[1], clause 7.3.1 [2], clause 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 Progress with encapsulated Cl				
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 181 Call Is Being Forwarded or 183 Session Progress with encapsulated CPG is sent The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.3.3-3				
ISUP Parameter values	CPG: Call Diversion Information Notification subscription options=SUBS_options				
SIP Parameter values	181: History-Info: <sip:any proper="" uri="">; index=1, <sip:any privacy="Priv-value" proper="" uri;cause="any" value?="">; index=1.1 181/183 (CPG): History-Info not present</sip:any></sip:any>				
Comments					
Message flows	INVITE (IAM) 180 Ringing (ACM) CASE A 181 Call Is Being Forwarded (CPG)	+ +	SIP NNI INVITE 180 Ringing 181 Call Is Being Forwarded		
	CASE B 183 Session Progress (CPG)	← Apply post test routine			

TP number	TP_403_013	Reference	[1], clause 7.3.1 [2], clause 7.5.4.2.1,		
			table 7.5.4.2.1,		
TSS reference	IMS-SS/CDIV/	1			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of 181 hi-targeted-to-		arded or 183 Session		
	Progress with encapsulated Cl				
Test Purpose	Ensure that on receipt of 181 (
	183 Session Progress with end				
	cause parameter is mapped in		e Call Diversion Information		
IOUD D	parameter is set as indicated in	n table 6.3.3-4			
ISUP Parameter values	CPG:				
	Call Diversion Information				
SIP Parameter values	181:	Redirecting_Reason			
SIP Parameter values					
	History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="<b">CAUSE_value>; index=1.1</sip:any></sip:any>				
	181/183 (CPG): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→ →	INVITE		
	180 Ringing (ACM)	+ +	180 Ringing		
		+	181 Call Is Being Forwarded		
	CASE A				
	181 Call Is Being Forwarded ←				
	(CPG)				
	CASE B				
	183 Session Progress (CPG)	←			
		Apply post test routine			

TP number	TP 403 014	Reference	[1], clause 7.3.1			
TI Hamber	11 _400_014	Kererenee	[2], clause 7.5.4.2.1,			
			table 7.5.4.2.1.2			
TSS reference	IMS-SS/CDIV/	<u>l</u>	table 1.0.4.2.1.2			
Selection criteria	PICS 6.3.1/2 AND PICS	S 6 3 2/5				
Test Purpose name			ng) with encapsulated ACM Redirection			
•	number					
Test Purpose			ing) with encapsulated ACM (subscriber			
		listory-Info entry containing a	a cause parameter is mapped into the			
	Redirection number:					
			try code where the SUT is located:			
			(significant) number', '+' and the			
			nd sent in the Address signal of the			
	Redirection number	= -				
			ot equal the country code where the			
		SUT is located: Nature of address indicator is set to 'international number' '+' is				
		digit string and sent in the A	ddress signal of the Redirection number			
ISUP Parameter values	ACM:					
	Redirection number					
	Nature of address indicator					
	Address signal					
		from the last History-Info ent	ry			
SIP Parameter values	180:					
		any proper URI>; index=1,				
		any proper URI;cause=any	>; index=1.1			
	180 (ACM): History-Info not present					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	180 Ringing (ACM)	←	← 180 Ringing			
	Apply post test routine					

TP number	TP_403_014A	Reference	[1], clause 7.3.1 [2], clause 7.5.4.2.1, table 7.5.4.2.1.6			
TSS reference	IMS-SS/CDIV/					
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/5				
Test Purpose name	Sending of Generic No	tification in an ACM free				
Test Purpose	(subscriber free) is sen	Ensure that on receipt of 180 (Ringing) a 180 Ringing with an encapsulated ACM (subscriber free) is sent. The last History-Info entry containing a cause parameter A Generic Notification parameter is sent in the ACM set to 'call is diverting'				
ISUP Parameter values	ACM: Backward call ir Called party Generic Notifica call is diverti	status=subscriber free ation				
SIP Parameter values		any proper URI>; index=1, any proper URI;cause=any o not present	>; index=1.1			
Comments		-				
Message flows	SIP-I INVITE (IAM) 180 Ringing (ACM)	MGCF → ← Apply post test r	SIP NNI → INVITE ← 180 Ringing routine			

TP number	TP_403_015	Reference	[1], clause 7.3.1			
			[2], clause 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	S 6.3.2/5				
Test Purpose name	Mapping of 180 escape	ed Privacy header into a 180	(Ringing) with encapsulated ACM			
	Redirection number res	striction				
Test Purpose	Ensure that on receipt of	of 180 (Ringing), a 180 (Rin	ging) with encapsulated ACM			
	(subscriber free) is sen	t				
	The Redirection number	The Redirection number restriction is set according the escaped Privacy header in the				
	last History entry as inc	dicated in table 6.3.3-1				
ISUP Parameter values	ACM: Redirecti	on number restriction= PRE	S_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>					
	180 (ACM): History-Info	o not present	-			
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	180 Ringing (ACM)	←	← 180 Ringing			
	Apply post test routine					

TP number	TP_403_016	Reference	[1], clause 7.3.1 [2], clause 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 he number restriction	ader into a 180 (Ringing) with	n encapsulated ACM Redirection		
Test Purpose	Ensure that on receipt of 180 (Ringing), a 180 (Ringing) with encapsulated ACM (subscriber free) is sent The Redirection number restriction is set according the Privacy header as indicated in table 6.3.3-1				
ISUP Parameter values	ACM: Redirection r	number restriction= PRES_re	estr		
SIP Parameter values	180: Privacy=Priv-value History-Info: <sip:any (acm):="" 180="" <sip:any="" history-info="" no<="" th=""><th>proper URI;cause=any value</th><th>>; index=1.1</th></sip:any>	proper URI;cause=any value	>; index=1.1		
Comments					
Message flows	SIP-I INVITE (IAM) → 180 Ringing (ACM) ←		SIP NNI INVITE 180 Ringing ne		

TP number	TP_403_017	Reference	[1], clause 7.3.1		
			[2], clause 7.5.4.2.1,		
			table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/2				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/5			
Test Purpose name	Mapping of 180 Privacy heade subscription options	er into a 180 (Ringing) with	encapsulated ACM Notification		
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Priva	acy header, a 180 (Ringing) with		
_	encapsulated ACM (subscribe	r free) is sent	, , ,		
	The Notification subscription o	ptions in the Call Diversion	Information parameter is set		
	according the Privacy header				
ISUP Parameter values	ACM: Call Diversion Ir	nformation			
	Notification subscription options=SUBS_options				
SIP Parameter values	180:				
	Privacy: Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
		per URI;cause=any value>	; index=1.1		
	180 (ACM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM) →	→	INVITE		
	180 Ringing (ACM) ←	←	180 Ringing		
	Apply post test routine				

TP number	TP_403_018	Reference	[1], clause 7.3.1 [2], clause 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	Privacy header into a 180	(Ringing) with encapsulated ACM		
	Notification subscription	options			
Test Purpose			an escaped Privacy header field in the		
			lated ACM (subscriber free) is sent		
			ersion Information parameter is set		
		Privacy header in the last l	History entry as indicated in		
	table 6.3.3-3				
ISUP Parameter values	ACM:				
	Call Diversion Information				
	Notification subscription options=SUBS_options				
SIP Parameter values	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>				
	180 (ACM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
	Apply post test routine				

TP number	TP 403 019	Reference	[1], clause 7.3.1		
i Filallibei	17_403_019	Reference			
			[2], clause 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-target	ted-to-uri into a 180 (Ringir	g) with encapsulated ACM Redirecting		
	Reason				
Test Purpose	Ensure that on receipt o	f 180 (Ringing) a 180 (Ring	ing) with encapsulated ACM (subscriber		
			a cause parameter is mapped into the		
			n parameter is set as indicated in		
	table 6.3.3-4	o dan Bivorolon imorridae.	r parameter is set as indicated in		
ISUP Parameter values	ACM:				
130F Farailleter values	Call Diversion Information				
	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri;cause="CAUSE_value">; index=1,</sip:any>				
	<pre><sip:any proper="" uri="">; index=1.1</sip:any></pre>				
	180 (ACM): History-Info not present				
Comments		•			
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
	1.00 199				
	Apply post test routine				

TP number	TP_403_020	Reference	[1], clause 7.3.1		
			[2], clause 7.5.4.2.1, table 7.5.4.2.1.2		
TSS reference	IMS-SS/CDIV/		table 7.5.4.2.1.2		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5			
Test Purpose name			ith encapsulated CPG Redirection		
Test Purpose	Ensure that on receipt of 180 (Ringing) a 180 (Ringing) with encapsulated CPG Alerting is sent. The last History-Info entry containing a cause parameter is mapped into the Redirection number: • If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number • If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is				
ISUP Parameter values	removed from the digit string and sent in the Address signal of the Redirection number CPG:				
	Redirection number				
	Nature of address indicator				
	Address signal				
	Derived from the last History-Info entry				
SIP Parameter values	180:				
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>				
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>				
Comments	180 (CPG): History-Info not p	resent			
	SIP-I	MGCF	SIP NNI		
Message flows		WIGCF →	INVITE		
		7 ←			
	181 Call Is Being ← Forwarded (ACM)	~	181 Call Is Being Forwarded		
	180 Ringing (CPG) ←	_	180 Ringing		
	100 Kinging (CFG)	Annly nost tost routi	0 0		
	Apply post test routine				

TP number	TP 403 020A	Reference		[1], clause 7.3.1	
				[2], clause 7.5.4.2.1,	
				table 7.5.4.2.1.9	
TSS reference	IMS-SS/CDIV/	,		-	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5			
Test Purpose name	Sending of Generic No	tification in an encapsu	lated CPG a	fter 180	
Test Purpose				PG Alerting is sent. The last	
		aining a cause paramet	er. The CPG	contains the Generic	
	Notification parameter	set to 'call is diverting'			
ISUP Parameter values	CPG: Generic Notifica	ation			
	call is divert	ing			
SIP Parameter values	180:				
	History-Info: <sip:< th=""><th>any proper URI>; index</th><th>c=1,</th><th></th></sip:<>	any proper URI>; index	c=1,		
	<sip:< th=""><th colspan="4"><sip:any proper="" uri;cause="any">; index=1.1</sip:any></th></sip:<>	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
	180 (CPG): History-Info not present				
Comments					
Message flows	SIP-I	MGCF		SIP NNI	
	INVITE (IAM)	→	→	NVITE	
	181 Call Is Being	←	← 1	81 Call Is Being Forwarded	
	Forwarded (ACM)			3	
	180 Ringing (CPG)	(← 1	80 Ringing	
	3 3 (= =)	Apply post	test routine	3 3	

	'Alerting' in an encapsula					
PICS 6.3.1/2 AND PICS 6 Sending of Event indicator Ensure that on receipt of 1	'Alerting' in an encapsula					
Ensure that on receipt of 1						
	180 (Ringing) an encapsu					
	ng a cause parameter. Th	Ensure that on receipt of 180 (Ringing) an encapsulated CPG Alerting is sent. The last History-Info entry containing a cause parameter. The Event indicator in the encapsulated				
CPG: Event=Alerting						
180: History-Info: <sip:any proper="" uri="">; index=1,</sip:any>						
•	•					
181 Call Is Being Forwarded (ACM)	(SIP NNI → INVITE ← 181 Call Is Being Forwarded ← 180 Ringing outine				
((History-Info entry containing CPG message is set to 'Al CPG: Event=Alerting 180: History-Info: <sip:any (acm)<="" (cpg):="" (iam)="" 180="" 181="" <sip:any="" being="" call="" forwarded="" history-info="" is="" no="" nvite="" sip-i="" th=""><th>History-Info entry containing a cause parameter. The CPG message is set to 'Alerting' CPG: Event=Alerting 180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;=""> 180 (CPG): History-Info not present SIP-I MGCF NVITE (IAM) → 181 Call Is Being ← Forwarded (ACM)</sip:any></sip:any></th></sip:any>	History-Info entry containing a cause parameter. The CPG message is set to 'Alerting' CPG: Event=Alerting 180: History-Info: <sip:any proper="" uri="">; index=1, <sip:any cause="any" proper="" uri;=""> 180 (CPG): History-Info not present SIP-I MGCF NVITE (IAM) → 181 Call Is Being ← Forwarded (ACM)</sip:any></sip:any>				

TP number	TP_403_021	Referen	ce	[1], clause 7.3.1	
				[2], clause 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	S 6.3.2/5			
Test Purpose name	Mapping of 180 escape Redirection number re		into a 180 (Rin	ging) with encapsulated CPG	
Test Purpose	Ensure that on receipt sent	of 180 (Ringing),	a 180 (Ringing)	with encapsulated CPG Alerting is	
	The Redirection numb			escaped Privacy header in the	
ISUP Parameter values	CPG: Redirection nur	nber restriction= F	RES_restr		
SIP Parameter values	180:				
	History-Info: <sip:< th=""><th>any proper URI>;</th><th>index=1,</th><th></th></sip:<>	any proper URI>;	index=1,		
	<pre><sip:any proper="" uri;cause="any?Privacy=Priv-value">; index=1.1</sip:any></pre>				
	180 (CPG): History-Info not present				
Comments					
Message flows	SIP-I	MG	CF	SIP NNI	
	INVITE (IAM)	→	→	INVITE	
	181 Call Is Being Forwarded (ACM)	←	(181 Call Is Being Forwarded	
	180 Ringing (CPG)	←	←	180 Ringing	
	Apply post test routine				

TP number	TP_403_022	Refe	erence	[1], clause 7.3.1	
				[2], clause 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 180 Priva	cy header into	CPG Redirection n	umber restriction	
Test Purpose	Ensure that on receip	t of 180 (Ringi	ng), a 180 Ringing v	with encapsulated CPG Alerting is	
	sent				
	The Redirection num	ber restriction i	s set according the	Privacy header as indicated in	
	table 6.3.3-1				
ISUP Parameter values	CPG: Redirection nu	ımber restrictio	n= PRES_restr		
SIP Parameter values	180:				
	Privacy= Priv-val	ue			
	History-Info: <si< th=""><th>o:any proper U</th><th>RI>; index=1,</th><th></th></si<>	o:any proper U	RI>; index=1,		
			RI;cause=any value	e>; index=1.1	
	180 (CPG): History-II	180 (CPG): History-Info not present			
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	→	→	INVITE	
	181 Call Is Being	←	←	181 Call Is Being Forwarded	
	Forwarded (ACM)				
	180 Ringing	←	←	180 Ringing	
	(CPG-Ringing)				
	Apply post test routine				

TP number	TP_403_023	Reference		[1], clause 7.3.1
				[2], clause 7.5.4.2.1,
				table 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5		
Test Purpose name	Mapping of 180 Privac	cy header into CPG N	otification su	bscription options
Test Purpose	Ensure that on receipt	of 180 (Ringing) con	taining a Priv	acy header, a 180 Ringing with
	encapsulated CPG Ale			
				n Information parameter is set
	according the Privacy	header in the messa	age body as	indicated in table 6.3.3-2
ISUP Parameter values	CPG: Call Diversion	Information		
	Notification	subscription options	SUBS_opti	ons
SIP Parameter values	180:			
	Privacy: Priv-valu			
	History-Info: <sip< th=""><th>:any proper URI>; ind</th><th>lex=1,</th><th></th></sip<>	:any proper URI>; ind	lex=1,	
		:any proper URI;caus	e=any value	>; index=1.1
	180 (CPG): History-In	fo not present		
Comments				
Message flows	SIP-I	MGCF		SIP NNI
	INVITE (IAM)	→	→	INVITE
	181 Call Is Being	←	←	181 Call Is Being Forwarded
	Forwarded (ACM)			
	180 Ringing (CPG)	←	←	180 Ringing
	Apply post test routine			

TP number	TP 403 024	Reference		[1], clause 7.3.1	
				[2], clause 7.5.4.2.1,	
				table 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	•			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5			
Test Purpose name	Mapping of 180 escape	ed Privacy header in	to CPG Notificati	on subscription options	
Test Purpose	last hi-targeted-to-uri, a	a 180 (Ringing) with	encapsulated CP		
	The Notification subscription options in the Call Diversion Information parameter is set according the escaped Privacy header in the last History entry as indicated in table 6.3.3-3				
ISUP Parameter values	CPG: Call Diversion I	nformation			
	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>				
	180 (CPG): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	•	SIP NNI	
	INVITE (IAM)	→	→ IN\	√ITE	
	181 Call Is Being	←	← 18 ¹	1 Call Is Being Forwarded	
	Forwarded (ACM)			•	
	180 Ringing (CPG - Alerting)	←	← 180	0 Ringing	
		Apply po	st test routine		

TP number	TP 403 025	Reference	[1], clause 7.3.1		
	1 - 1 - 1 - 1		[2], clause 7.5.4.2.1,		
			table 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/		10.0.0		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5			
Test Purpose name	Mapping of 180 hi-targeted-to	o-uri into CPG Redirecting I	Reason		
Test Purpose	Ensure that on receipt of 180	(Ringing) a 180 (Ringing)	with encapsulated CPG Alerting is		
-	sent. The last History-Info en	try containing a cause para	meter is mapped into the		
	Redirecting reason in the Cal	I Diversion Information para	ameter is set as indicated in		
	table 6.3.3-4				
ISUP Parameter values	CPG: Call Diversion Information				
	Redirecting reasor	= 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>				
	180 (CPG): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	181 Call Is Being ←	←	181 Call Is Being Forwarded		
	Forwarded (ACM)				
	180 Ringing ←	←	180 Ringing		
	(CPG - Alerting)		3 3		
		Apply post test routing	ne		

TP number	TP_403_026	Reference	[1], clause 7.3.1 [2], clause 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		geted-to-uri into ANM Redirec				
Test Purpose	containing a cause param	eter is mapped into the Redire				
	 If CC of the hi-targeted-to-uri is equal the country code where the SUT is located: Nature of address indicator is set to 'national (significant) number', '+' and the country code is removed from the digit string and sent in the Address signal of the Redirection number 					
	• If the country code of the hi-targeted-to-uri is not equal the country code where the SUT is located: Nature of address indicator is set to 'international number' '+' is removed from the digit string and sent in the Address signal of the Redirection number					
ISUP Parameter values	ANM: Redirection number	••				
		Nature of address indicator				
	Address signal					
OID Deservation and the second	Derived from the last History-Info entry					
SIP Parameter values	200:					
	History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></sip:any>					
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1 200 (ANM): History-Info not present</sip:any></pre>					
Comments	200 (Artin): Thetery-into I	iot present				
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	INVITE			
		+ +	181 Call Is Being Forwarded			
	` ,	(180 Ringing			
		(200 OK INVITE			
	ACK	→	ACK			
		Apply post test routi	ne			

TP number	TP 403 027	Reference	[1] eleves 7.2.1			
i P number	17_403_027	Reference	[1], clause 7.3.1			
			[2], clause 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 escape	d Privacy header into AN	M Redirection number restriction			
Test Purpose	Ensure that on receipt o	of 200 (INVITE), a 200 O	(INVITE (ANM) with encapsulated ANM is			
	sent					
	The Redirection number	r restriction is set accord	ng the escaped Privacy header in the			
	last History entry as indi	last History entry as indicated in table 6.3.3-1				
ISUP Parameter values	ANM: Redirection num	ber restriction= PRES_re	estr			
SIP Parameter values	200 OK:					
	History-Info: <sip:a< th=""><th colspan="4">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></sip:a<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
			y value? <i>Privacy=Priv-value></i> ; index=1.1			
		200 (ANM): History-Info not present				
Comments		•				
Message flows	SIP-I	MGCF	SIP NNI			
_	INVITE (IAM)	→	→ INVITE			
	181 Call Is Being	←	← 181 Call Is Being Forwarded			
	Forwarded (ACM)		3			
	180 Ringing (CPG)	←	← 180 Ringing			
	200 OK INVITE (ANM)	(€ 200 OK INVITE			
	ACK	`	→ ACK			
	Apply post test routine					

TP number	TP_403_028	Reference	[1], clause 7.3.1	
			[2], clause 7.5.4.2.1, table 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/	l .	1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name		Mapping of 200 Privacy header into 200 OK INVITE (ANM) with encapsulated ANM Redirection number restriction		
Test Purpose	ANM is sent	, ,	OK INVITE (ANM) with encapsulated ng the Privacy header as indicated in	
	table 6.3.3-1			
ISUP Parameter values	ANM: Redirection num	ber restriction= PRES_re	str	
SIP Parameter values		ny proper URI>; index=1 ny proper URI;cause=an not present		
Comments				
Message flows	SIP-I INVITE (IAM) 181 Call Is Being Forwarded (ACM)	MGCF → ←	SIP NNI → INVITE ← 181 Call Is Being Forwarded	
	180 Ringing (CPG) 200 OK INVITE (ANM) ACK	← ← →	← 180 Ringing← 200 OK INVITE→ ACK	
	AON	Apply post tes		

TP number	TP 403 029	Reference	[1], clause 7.3.1
			[2], clause 7.5.4.2.1,
			table 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/	1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Redirection number	,	INVITE) with encapsulated CON
Test Purpose	Ensure that on receipt of 200 OK (INVITE) a 200 OK (INVITE) with encapsulated 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 remo Redirection number	ved from the digit string a	nd sent in the Address signal of the
	SUT is located: Natu	re of address indicator is	ot equal the country code where the set to ' international number ' '+' is ddress signal of the Redirection number
ISUP Parameter values	CON: Redirection number	er	
	Nature of add Address signa	al	774
SIP Parameter values	200 OK:	m the last History-Info ent	ıy
oir raidificter values	History-Info: <sip:an< th=""><th>y proper URI>; index=1, y proper URI;cause=any not present</th><th>value ; index=1.1</th></sip:an<>	y proper URI>; index=1, y proper URI;cause=any not present	value ; index=1.1
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
	200 OK INVITE (CON)	←	← 200 OK INVITE
	ACK -	→	→ ACK
		Apply post test r	outine

TP number	TP_403_030	Reference	[1], clause 7.3.1
			[2], clause 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 escaped	Privacy header into 20	0 OK (INVITE) with encapsulated CON
	Redirection number restr	riction	
Test Purpose			K (INVITE) with encapsulated CON is sent.
	The Redirection number	restriction is set accord	ing the escaped Privacy header in the
	last History entry as indic	cated in table 6.3.3-1	
ISUP Parameter values	CON: Redirection numb	er restriction= PRES_r	estr
SIP Parameter values	200 OK:		
	History-Info: <sip:ar< th=""><th>ny proper URI>; index=</th><th>,</th></sip:ar<>	ny proper URI>; index=	,
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>		
	200 (CON): History-Info not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
	200 OK INVITE (CON)	←	← 200 OK INVITE
	ACK	→	→ ACK
		Apply post te	st routine

TP number	TP_403_031	Reference	[1], clause 7.3.1 [2], clause 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 number restriction	header into 200 OK (INVITE)	with encapsulated CON Redirection
Test Purpose	sent		(INVITE) with encapsulated CON is
	table 6.3.3-1	restriction is set according the	e Privacy header as indicated in
ISUP Parameter values	CON: Redirection numb	per restriction= PRES_restr	
SIP Parameter values	200 OK:		
	Privacy= Priv-value		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>		
	200 (CON): History-Info not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	INVITE
	200 OK INVITE (CON)	+ +	200 OK INVITE
	ACK	→	ACK
		Apply post test rout	tine

TP number	TP 403 032	Reference	[1], clause 7.3.1
			[2], clause 7.5.4.2.2,
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/	1	-
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Redirecting number	er Address signals into Hist	ory-Info header URI
Test Purpose	the second last hi-targeted-to-	l called number parameter is sent and a History-Info h uri Value of Redirecting n	and a Redirection Information neader is present. The value of umber is mapped from the
	Redirecting number Address S	Signals as indicated in table	6.3.3-6
ISUP Parameter values	Redirection Information Redirection counter Original called number	ny appropriate value>	
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; i <sip:value (iam):="" <sip:="" any="" history-info="" invite="" note<="" of="" proper="" redirect="" th="" uri;ca=""><th>ing number;cause=any>; i ause=any>; index=1.1.1</th><th>index=1.1</th></sip:value></sip:any>	ing number ;cause=any>; i ause=any>; index=1.1.1	index=1.1
Comments		•	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
	Apply post test routine		

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

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

TP number	TP_403_033	Reference	[1], clause 7.3.1
			[2], clause 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 PIC	CS 6.3.2/5	
Test Purpose name	Mapping of Redirectin	ng number Address present	ation restricted into History-Info header
Test Purpose			ulated IAM containing a Redirecting, an
-	Original called numbe	r parameter number param	eter and a Redirection Information
			ory-Info header is present. A Privacy
			to-uri and the PRIV_value is mapped
	from the Address pres table 6.2.5-7	sentation restricted indicato	r of the Redirecting number as indicated in
ISUP Parameter values		mbor	
150P Parameter values	IAM: Redirecting nu		tor: ADDI value
	Redirection Inf	esentation restricted indica	ior. APRI_value
		ormation counter=2	
	Original called		
SIP Parameter values	INVITE:	Hamber	
On Tarameter values	History-Info:		
	_	er URI>; index=1,	
		er URI;cause=any?Privacy=	=PRIV_value>: index=1.1
		er URI;cause=any>; index=	
	INVITE (IAM): History-Info not present		
Comments	, ,	•	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
	` '	Apply post tes	t routine

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

VA	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	[1], clause 7.3.1
			[2], clause 7.5.4.2.2,
			table 7.5.4.2.2.1
TSS reference	IMS-SS/CDIV/		<u> </u>
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of Redirection	n Information Redirecting indi	cator
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number, an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. A Privacy header is escaped		
			alue is mapped from the Redirecting
		ction Information as indicated	
IOUD Developed			In table 7.5.4.2.2.1 [2]
ISUP Parameter values	IAM: Redirection Info		
	Redirection		
		indicator=RDIND_value	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<sip: any="" proper="" uri;cause="any?Privacy=<b">PRIV_value>; index=1.1</sip:>		
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>		
	INVITE (IAM): History-Info not present		
Comments	, , ,	•	
Message flows	SIP-I	MGCF	SIP NNI
_	INVITE (IAM)	→	→ INVITE
	, ,	Apply post test ro	outine

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

VA	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	[1], clause 7.3.1
			[2], clause 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	ICS 6.3.2/5	
Test Purpose name	Mapping of Redirecti	on Information Redirection cou	nter
Test Purpose			ted IAM containing a Redirecting Redirection Information parameter, an
		nt and a the hi-targeted-to-uri a as indicated in table 6.3.3-9	and the index parameter of the
ISUP Parameter values	IAM: Redirection In	nformation	
	Redirectio	n counter=RDCONT_value	
SIP Parameter values	INVITE:		
	History-Info: HI-	ENTRY_values	
	INVITE (IAM): History-Info not present		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
	. ,	Apply post test re	outine

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

VA	RDCONT_value	HI-ENTRY_values
VA_01	1	<pre><sip:represents called="" number="" original="" the="">; index=1,</sip:represents></pre>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1</sip:>
VA_02	2	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<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	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<pre><sip: any="" placeholder="" represents="" value;cause="any">; index=1.1,</sip:></pre>
		<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	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<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	<pre><sip: called="" number="" original="" represents="" the="">; index=1,</sip:></pre>
		<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>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:></pre>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1.</sip:>

TP number	TP_403_036	Reference	[1], clause 7.3.1	
			[2], clause 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 Redirect	ction Information Original redirect	ion reason	
Test Purpose	Ensure that on rece	eipt of an INVITE with encapsulat	ted IAM containing a Redirecting	
	number an Original	l called number and a Redirectior	n Information parameter, an INVITE	
	request is sent. The	e Original redirection reason indic	cator 'unknown' of the Redirection	
	Information is map	ped into the cause parameter '40	4' of the second hi-targeted-to-uri of	
	the History-Info hea	ader in the sent INVITE as indica	ted in table 6.3.3-10	
ISUP Parameter values	IAM: Redirection	Information		
	Redirect	ion 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	
		ory-Info not present		
Comments		•		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	` ′	Apply post test re	outine	

Table 6.3.3-10: Void

TP number	TP_403_037	Reference	[1], clause 7.3.1		
			[2], clause 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	S 6.3.2/5			
Test Purpose name	Mapping of Redirection	Information Redirecting reas	son		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirection number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Redirecting reason indicator REAS_value of the Redirection Information is mapped into the cause parameter Cause_value of the last hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-11				
ISUP Parameter values	IAM: Redirection Info				
	Redirection counter=2				
	Redirecting r	reason = REAS_value			
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>				
		any proper URI;cause=Caus			
	INVITE (IAM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	, ,	Apply post test ro	outine		

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

VA	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	[1], clause 7.3.1		
i P number	17_403_036	Reference			
			[2], clause 7.5.4.2.2,		
			table 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AN	ID PICS 6.3.2/5			
Test Purpose name	Mapping of Calle	ed party number Address Signals			
Test Purpose			ated IAM containing a Redirecting		
			parameter, an INVITE request is sent and		
	a History-Info he	ader is present. The Called party	number is mapped into the last		
	hi-targeted-to-ur	i of the History-Info header as ind	cated in table 6.3.3-12		
ISUP Parameter values	IAM: Called pa	arty number			
	Natur	e of Address: NoA_value			
	Addre	ess Signals			
SIP Parameter values	INVITE:				
	History-Info:	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>			
		<sip:any proper="" uri;cause="any</th"><th>>: index=1.1.</th></sip:any>	>: index=1.1.		
		<sip:value called="" nun<="" of="" party="" th=""><th></th></sip:value>			
	INVITE (IAM): History-Info not present				
Comments	,	,,			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	, ,	Apply post test	routine		

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

VA	NoA_value	Value of Called party number last hi-targeted-to-uri
VA_01	()	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	[1], clause 7.3.1	
	1		[2], clause 7.5.4.2.2,	
			table 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/		1.0.1.2.2.1	
Selection criteria	PICS 6.3.1/2 AND PICS	2 6 2 2/5		
Test Purpose name		led number Address Signals		
Test Purpose			ated IAM containing an Original called	
	number parameter and	a Redirection Information p	arameter, an INVITE request is sent and	
	a History-Info header is	present. The value of the fi	rst hi-targeted-to-uri Value of Original	
	called number is mapp	ed from the Original called	number Address Signals as indicated in	
	table 6.3.3-13	9	•	
ISUP Parameter values	IAM: Original called number			
	Nature of Address: NoA_value			
	Address Signals < Digits>			
SIP Parameter values	INVITE:			
	History-Info: <sip:\< th=""><th>/alue of Original called nu</th><th>mber>: index=1.</th></sip:\<>	/alue of Original called nu	mber>: index=1.	
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>			
	INVITE (IAM): History-Info not present			
Comments	Tree (num) money money process			
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	(1, (1, (1, (1, (1, (1, (1, (1, (1, (1,	Apply post test		
	rippij poet test routille			

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

VA	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 403 040	Reference	[1], clause 7.3.1		
			[2], clause 7.5.4.2.2,		
			table 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/	<u>.</u>			
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5			
Test Purpose name	Mapping of Original ca	alled number Address presentat	ion restricted indicator		
Test Purpose	Ensure that on receipt	of an INVITE with encapsulate	d IAM containing an Original called		
-	number parameter, an	INVITE request is sent and a H	History-Info header is present		
			ri and the PRIV_value is mapped		
	from the Address pres	entation restricted indicator of t	he Original called number as		
	indicated in table 6.3.3	3-14	-		
ISUP Parameter values	IAM: Original called	number			
	Address pre	Address presentation restricted indicator: APRI_value			
	Address Sig	gnals <any appropriate="" value=""></any>			
SIP Parameter values	INVITE:				
	History-Info: <sip< th=""><th>:any proper URI?Privacy=PRIV</th><th>_value>; index=1,</th></sip<>	:any proper URI?Privacy=PRIV	_value>; index=1,		
	<sip< th=""><th>:any proper URI;cause=any>; ir</th><th>ndex=1.1</th></sip<>	:any proper URI;cause=any>; ir	ndex=1.1		
	INVITE (IAM): History	-Info not present			
Comments		-			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→ →	NVITE		
	, ,	Apply post test rou	ıtine		

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

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

TP number	TP_403_041	Reference	[1], clause 7.2.1		
			[2], clause 7.5.4.3,		
			table 7.5.4.3.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Second latest History-Info head	der field entry mapped into Red	lirecting number Nature of		
	address indicator				
Test Purpose	Ensure that on receipt of an IN		,		
	with encapsulated IAM is sent				
	Redirection information parame				
	Redirecting number is mapped				
	containing a cause-param URI	parameter as indicated in table	e 6.3.3-15		
ISUP Parameter values	IAM: Redirecting number				
	Nature of address in	ndicator= NoA_value			
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:second entry="" last="" uri;cause="any">; index=1.1,</sip:second></pre>				
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>				
	INVITE (IAM): History-Info not present				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	→	INVITE (IAM)		
	100 Trying ←		. ,		
	Apply post test routine				

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

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

TP number	TP_403_042	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
			table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/5		
Test Purpose name	Second latest History-Info he	ader field entry is mapped into	Redirecting number Address	
	signal	*		
Test Purpose		NVITE request containing a His		
		nt and a Redirecting number an		
		meter is present. The Address		
		ni-targeted-to-uri in hi-entry befo		
	cause-param URI parameter	in the format +'CC+NDC+SN' a	as indicated in table 6.3.3-16	
ISUP Parameter values	IAM: Redirecting number			
		rived from the second last Hist-	entry	
SIP Parameter values	INVITE:			
	History-Info: <sip:any pr<="" th=""><th></th><th></th></sip:any>			
		nd last entry URI;cause=any>;		
		oper URI;cause=any>; index=1	.1.1	
	INVITE (IAM): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
		→	INVITE (IAM)	
	100 Trying	←		
	Apply post test routine			

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

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

TP number	TP_403_043	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
			table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/5		
Test Purpose name	Second latest History-Info header escaped Privacy header is mapped into Redirecting number Address presentation restricted indicator			
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Address presentation restricted indicator of the Redirecting number is mapped from the escaped Privacy header of the second latest History-Info header field entry containing a cause parameter as indicated in table 6.3.3-17			
ISUP Parameter values	IAM: Redirecting num	ber		
	Address presentation restricted indicator= APRI_value			
SIP Parameter values	INVITE:			
	History-Info:			
	<sip:any proper="" uri="">; index=1,</sip:any>			
	<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,</sip:any></pre>			
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>			
	INVITE (IAM): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	,	
	Apply post test routine			

TP number	TP 403 044	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
			table 7.5.4.3.2	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5		
Test Purpose name	Privacy header is mapped into Redirecting number Address presentation restricted indicator			
Test Purpose	Ensure that on receipt of an IN	IVITE request containing a Hist	tory-Info header, an INVITE	
_	with encapsulated IAM is sent	and a Redirecting number an (Original called number and a	
	Redirection information parameter is present. The Address presentation restricted			
	indicator of the Redirecting nu	umber is mapped from the Priv	acy header of the received	
	INVITE request as indicated in table 6.3.3-17			
ISUP Parameter values	IAM: Redirecting number			
	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:			
	Privacy: PRIV_value			
	History-Info:			
	<sip:any proper="" uri="">; index=1,</sip:any>			
	<sip:any proper="" uri;cause="any">; index=1.1</sip:any>			
	INVITE (IAM): History-Info not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	· -	INVITE (IAM)	
	100 Trying ←	•		
		Apply post test routine		

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

VA	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

TD 403 045	Poforonco	[1] clause 7.2.1	
17_403_045	Reference	[1], clause 7.2.1	
		[2], clause 7.5.4.3,	
		table 7.5.4.3.3	
PICS 6.3.1/2 AND PICS 6.3.2/5			
Escaped Privacy heade	er is mapped into Redirection i	nformation Redirecting indicator	
Ensure that on receipt of	of an INVITE request containin	ig a History-Info header, an INVITE	
with encapsulated IAM	is sent and a Redirecting num	ber an Original called number and a	
Redirection information	parameter is present. The Re	directing indicator of the	
Redirection information	Redirection information is mapped from the escaped Privacy header of the second last		
History-Info header field	d entry and last History-Info he	eader field in the received INVITE	
request as indicated in	table 6.3.3-18		
IAM: Redirection infor	mation		
Redirecting indicator=RDIND_value			
INVITE:			
History-Info:			
<sip:any proper="" uri="">; index=1,</sip:any>			
<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1,</sip:any></pre>			
<pre><sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1.1</sip:any></pre>			
INVITE (IAM): History-Info not present			
	•		
SIP NNI	MGCF	SIP-I	
INVITE	→	→ INVITE (IAM)	
100 Trying	←	, ,	
	Apply post test rou	ıtine	
	Escaped Privacy heade Ensure that on receipt of with encapsulated IAM Redirection information Redirection information History-Info header field request as indicated in Redirection information in INVITE: History-Info: <sip:any li="" proper<=""> <sip:any li="" proper<=""> <sip:any li="" proper<=""> <sip:any li="" proper<=""> INVITE (IAM): History-I </sip:any></sip:any></sip:any></sip:any>	IMS-SS/CDIV/ PICS 6.3.1/2 AND PICS 6.3.2/5 Escaped Privacy header is mapped into Redirection i Ensure that on receipt of an INVITE request containin with encapsulated IAM is sent and a Redirecting num Redirection information parameter is present. The Re Redirection information is mapped from the escaped History-Info header field entry and last History-Info he request as indicated in table 6.3.3-18 IAM: Redirection information Redirecting indicator=RDIND_value INVITE: History-Info:	

TP number	TP 403 046	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
			table 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5		
Test Purpose name	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 INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Redirecting indicator of the			
Redirection information is mapped from the Privacy header in the received INV as indicated in table 6.3.3-18				
ISUP Parameter values	IAM: Redirection information			
	Redirecting indicato	r=RDIND_value		
SIP Parameter values INVITE:				
Privacy: PRIV_value				
History-Info:				
	<sip:any proper="" uri="">; ii</sip:any>			
	<sip:any proper="" uri;cause="any">; index=1.1,</sip:any>			
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>			
INVITE (IAM): History-Info not present				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
	100 Trying ←		,	
Apply post test routine				

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

VA	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	[1], clause 7.2.1	
	1 ==		[2], clause 7.5.4.3,	
			table 7.5.4.3.3	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	'cause' parameter is ma	pped into Redirection info	rmation Redirecting reason	
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE with encapsulated IAM is sent and a Redirecting number an Original called number and a Redirection information parameter is present. The Redirecting reason of the Redirection information is mapped from the cause parameter of the latest History-Info header field entry containing a cause parameter in the received INVITE request as indicated in table 6.3.3-19			
ISUP Parameter values	IAM: Redirection information Original redirection reason=unknown/not available Redirecting reason=REAS_value			
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1, <sip:any cause="Cause_value" proper="" uri;="">; index=1.1.1 INVITE (IAM): History-Info not present</sip:any></sip:any></sip:any>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE 100 Trying	→ ←	→ INVITE (IAM)	
	Apply post test routine			

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

VA	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_403_048	Reference	[1], clause 7.2.1
		[2], clause 7.5.4.3,
		table 7.5.4.3.3
IMS-SS/CDIV/		
PICS 6.3.1/2 AND PICS 6.3.2/5	5	
Hi-index is mapped into Redire	ction information Redirection c	ounter
Ensure that on receipt of an IN	VITE request containing a Histo	ory-Info header, an INVITE
with encapsulated IAM is sent a	and a Redirecting number an C	original called number and a
Redirection information parame	eter is present. The Redirection	n counter of the Redirection
information is mapped from the	hi-index of the last History-Info	header field entry in the
IAM: Redirection information		
Redirection counter=	RDCONT_value	
INVITE:		
History-Info: ENTRY_valu	es	
INVITE (IAM): History-Info not	present	
SIP NNI	MGCF	SIP-I
INVITE ->	→	INVITE (IAM)
100 Trying ←		,
" , "	Apply post test routine	
	IMS-SS/CDIV/ PICS 6.3.1/2 AND PICS 6.3.2/5 Hi-index is mapped into Redire Ensure that on receipt of an IN' with encapsulated IAM is sent a Redirection information parame information is mapped from the received INVITE request as ind value is equal to the value of th IAM: Redirection information Redirection counter= INVITE: History-Info: ENTRY_valu INVITE (IAM): History-Info not	IMS-SS/CDIV/ PICS 6.3.1/2 AND PICS 6.3.2/5 Hi-index is mapped into Redirection information Redirection of Ensure that on receipt of an INVITE request containing a History with encapsulated IAM is sent and a Redirecting number and Redirection information parameter is present. The Redirection information is mapped from the hi-index of the last History-Information is mapped from the hi-index of the last History-Information is equal to the value of the Redirection counter IAM: Redirection information Redirection information Redirection counter=RDCONT_value INVITE: History-Info: ENTRY_values INVITE (IAM): History-Info not present SIP NNI MGCF INVITE →

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

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

TP number	TP 403 049	Reference	[1], clause 7.2.1
			[2], clause 7.5.4.3,
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		•
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	First History-Info header field e	entry is mapped into Original ca	alled number Nature of
	address indicator		
Test Purpose	Ensure that on receipt of an IN		
	with encapsulated IAM is sent		
	Redirection information param		
	Original called is mapped from		eld entry in the format
	+'CC+NDC+SN' as indicated in table 6.3.3-21		
ISUP Parameter values	IAM: Original called number		
	Numbering Plan Ind	icator=ISDN (Telephony) num	
		(Recommendation IT	U-1 E.164 [i.1])
		ndicator= NoA_value	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" uri="">; i</sip:first>		
	<sip:any proper="" th="" uri;ca<=""><th></th><th></th></sip:any>		
	INVITE (IAM): History-Info not	present	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE ->		INVITE (IAM)
	100 Trying ←		
		Apply post test routine	

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

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

TP number	TP 403 050	Reference	[1], clause 7.2.1
			[2], clause 7.5.4.3,
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/	-	-
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5	
Test Purpose name	First History-Info heade	er field entry is mapped into (Original called Address signal
Test Purpose Ensure that on receipt of an INVITE request containing a H with encapsulated IAM is sent and a Redirecting number a Redirection information parameter is present. The Address		mber an Original called number and a Address signal of the Original called	
		n the first History-Info header	field entry in the format
		icated in table 6.3.3-22	
ISUP Parameter values	IAM: Original called		
	Numbering I	Plan Indicator= <i>ISDN (Teleph</i>	
			dation ITU-T E.164 [i.1])
	Address signal derived from the first Hist-entry		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry<="" th=""><th>URI>; index=1,</th><th></th></sip:first>	URI>; index=1,	
	<sip:any proper<="" th=""><th>URI;cause=any>; index=1.1</th><th></th></sip:any>	URI;cause=any>; index=1.1	
	INVITE (IAM): History-	Info not present	
Comments		•	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	,
	,	Apply post test re	outine

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

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

TP number	TP 403 051	Reference	[1], clause 7.2.1
	11 _ 100_00 1	11010101100	[2], clause 7.5.4.3,
			table 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		table 1.0.4.0.4
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/5	
Test Purpose name			ader is mapped into Original called
	number Address presentati		ado lo mappod mio ongman danda
Test Purpose			a History-Info header, an INVITE
_	with encapsulated IAM is s	ent and a Redirecting numbe	r an Original called number and a
	Redirection information par	ameter is present. The Addre	ess presentation restricted
	indicator of the Original ca	lled number is mapped from	the escaped Privacy header of the
	first History-Info header fiel	d entry as indicated in table 6	5.3.3-23
ISUP Parameter values	IAM: Original called	-	
	Address present	ation restricted indicator=API	RI_value
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" th="" ur<=""><th>I?Privacy=PRIV_value>; inde</th><th>ex=1,</th></sip:first>	I?Privacy= PRIV_value >; inde	ex=1,
	<sip:any proper="" th="" uri<=""><th>;cause=any>; index=1.1</th><th></th></sip:any>	;cause=any>; index=1.1	
	INVITE (IAM): History-Info	not present	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→	→ INVITE (IAM)
	100 Trying	←	. ,
		Apply post test routing	ne

TP number	TP 403 052	Reference	[1], clause 7.2.1
i Filallibei	17_403_032	Reference	
			[2], clause 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	Privacy header is mapped into	Original called number Addres	ss presentation restricted
_	indicator		•
Test Purpose	Ensure that on receipt of an IN		
	with encapsulated IAM is sent	and a Redirecting number an (Original called number and a
	Redirection information param	eter is present. The Address p	resentation restricted
	indicator of the Original called		
	INVITE request as indicated in		•
ISUP Parameter values	IAM: Original called		
	Address presentation	on restricted indicator=APRI_va	alue
SIP Parameter values	INVITE:		
	Privacy: PRIV_value		
	History-Info:		
	<sip:first entry="" uri="">;</sip:first>	index=1,	
	<sip:any proper="" th="" uri;ca<=""><th></th><th></th></sip:any>		
	INVITE (IAM): History-Info not	-	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
1	INVITE ->	• →	INVITE (IAM)
	100 Trying ←	•	,
		Apply post test routine	
	Apply post test routine		

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

VA	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	[1], clause 7.2.1
			[2], clause 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 a 183 Session Pro		Redirection number into 181
	(Being forwarded) History-Info		
Test Purpose	Ensure that on receipt of a 183		
	number and the Call diversion		lication a call diversion
	occurred, a 181 (Being forward		
		pped into the hi-targeted-to-uri	
	containing one hi-entry in the s		.3.3-24
ISUP Parameter values	ACM: Backward call indicator		
	Called party statue=		
	Generic notification=ca	•	
	Call diversion information	on	
	Redirection number		
		ndicator= NOA_value	
	Address signal Digi		
SIP Parameter values		T_HIST_URI ;cause=any>; inde	ex=1
	183 (ACM): History-Info not p	resent	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE ->	· →	INVITE (IAM)
	181 Being forwarded ←	·	183 Session Progress
			(ACM - no indication)
		Apply post test routine	

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

VA	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		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	[1], clause 7.2.1 [2], clause 7.5.4.3,
			table 7.5.4.3.8
TSS reference	IMS-SS/CDIV/	1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	Mapping of a 183 Session Progress with encapsulated ACM Redirecting reason into 181 (Being forwarded) History-Info header cause parameter		
Test Purpose	Ensure that on receipt of a 183 number and the Call diversion occurred, a 181 (Being forward	B Session Progress with encap parameter is present as an inc ded) is sent. The Call diversion se parameter of the hi-targete	lication a call diversion information Redirecting
ISUP Parameter values	ACM: Backward call indicator Called party statue= Generic notification=ca Redirection number Call diversion information Redirecting reason	e'no indication' Il is diverting on	
SIP Parameter values	181:	IIST_URI;cause=CAUSE _valu	ue>; index=1
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE		INVITE (IAM)
	181 Being forwarded ←	· •	183 Session Progress (ACM - no indication)
		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	[1], clause 7.2.1 [2], clause 7.5.4.3,	
			table 7.5.4.3.8	
TSS reference	IMS-SS/CDIV/	,	,	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5		
Test Purpose name	Mapping of a 183 Sess options no 181 (Being		ted ACM Notification subscription	
Test Purpose	number and the Call doccurred, if the Call div	iversion parameter is present	ith encapsulated ACM a Redirection as an indication a call diversion subscription options is set to is sent	
ISUP Parameter values	Redirection nur Call diversion ir	= :	ation not allowed	
SIP Parameter values				
Comments				
Message flows	SIP NNI INVITE	MGCF	SIP-I → INVITE (IAM) ← 183 Session Progress (ACM - no indication)	
	Apply post test routine			

TP number	TP_403_056	Reference	[1], clause 7.2.1	
			[2], clause 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 a 183 Sessio options into 181 (Being fo		lated ACM Notification subscription love header	
Test Purpose	Ensure that on receipt of an a 183 Session Progress with encapsulated ACM a Redirection			
-	number and the Call diversion parameter is present as an indication a call diversion			
	occurred, a 181 (Being forwarded) is sent. The escaped Privacy header of the last			
	hi-targeted-to-uri in a History-Info header in the sent 181 is set to 'history'. When a 200 OK			
			je is received, a 200 OK INVITE is sent	
			Privacy header is present the value is set	
	as indicated in table 6.3.3	3-26		
ISUP Parameter values	ACM:			
	Generic notification			
	Redirection numb			
	Call diversion info		l	
CID Deservation and large		bscription options= NSO	_value	
SIP Parameter values	181:	OT LUCT LIBLATION	ODina o blatana indo. 4	
			ny?Privacy= history >; index=1	
	181 (ACM): History-Info	not present		
	History-Info: sip: LAST HIST URI;cause=any?Privacy=PRIV value>; index=1			
	Tilstory-Itilo. sip. LA	31_HI31_UNI,Cause-al	iy!Fiivacy= FRiv_value >, iiiuex=1	
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	181 Being forwarded	←	 183 Session Progress 	
			(ACM - no indication)	
	180 Ringing	←	 180 Ringing (CPG - Alerting) 	
	200 OK	←	← 200 OK (ANM)	
	ACK	→	→ ACK	
	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 or 'none'
VA 03	presentation allowed without redirection number	history

TP number	TP_403_057	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3, table 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/		table 1.5.4.5.9	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	F		
	Mapping of a 183 Session Progress with encapsulated CPG Redirection number into 181			
Test Purpose name	•	•	Redirection number into 161	
Took Diversions	(Being forwarded) History-Info		evilated CDC that Event	
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated CPG the Event indicator is set to 'Progress' a Redirection number and the Call diversion parameter is			
	present as an indication a call			
	Redirection number is mapped		History-into header in the	
	sent 181 as indicated in table 6	5.3.3-24		
ISUP Parameter values	CPG: Event=Progress			
	Generic notification=cal			
	Call diversion information	on		
	Redirection number			
	Nature of address in	ndicator= 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>			
	181 (CPG): History-Info not pr	esent		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE -	→	INVITE (IAM)	
	180 Ringing ←	· ←	180 Ringing (ACM)	
	181 Being forwarded ←	· •	183 Session Progress	
		_	(CPG - call is diverting)	
	Apply post test routine			

TP_number TP_403_058 Reference [1], clause 7.2.1 [2], clause 7.5.4.3, table 7.5.4.3.9 TSS reference IMS-SS/CDIV/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/5 Test Purpose name Mapping of a 183 Session Progress with encapsulated CPG Redirecting reason into 1 (Being forwarded) History-Info header cause parameter Test Purpose Ensure that on receipt of a 183 Session Progress with encapsulated 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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: <pre></pre>	.		
TSS reference IMS-SS/CDIV/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/5 Test Purpose name Mapping of a 183 Session Progress with encapsulated CPG Redirecting reason into 1 (Being forwarded) History-Info header cause parameter Test Purpose Ensure that on receipt of a 183 Session Progress with encapsulated 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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info:	.		
TSS reference IMS-SS/CDIV/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/5 Test Purpose name Mapping of a 183 Session Progress with encapsulated CPG Redirecting reason into 1 (Being forwarded) History-Info header cause parameter Ensure that on receipt of a 183 Session Progress with encapsulated 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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info:	.		
Selection criteria	.		
Test Purpose name Mapping of a 183 Session Progress with encapsulated CPG Redirecting reason into 1 (Being forwarded) History-Info header cause parameter Ensure that on receipt of a 183 Session Progress with encapsulated 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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: Sip:derived-from-Redirection number-in-ACM ; cause=CAUSE _value>; index= 181 (CPG): History-Info not present	.		
(Being forwarded) History-Info header cause parameter Test Purpose Ensure that on receipt of a 183 Session Progress with encapsulated 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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason = REAS_value SIP Parameter values 181: History-Info: <i a="" parameter="" value<=""> 181: History-Info: <i a="" parameter="" value<=""> 181: Histor</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>	.		
Ensure that on receipt of a 183 Session Progress with encapsulated 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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value 181: History-Info: sip:derived from Redirection number in ACM;cause=CAUSE _value>; index= 181 (CPG): History-Info not present			
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 diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value 181: History-Info: <sip: acm;cause="CAUSE_value" derived.from.redirection.number="" in="">; index=181 (CPG): History-Info not present</sip:>			
present as an indication a call diversion occurred, a 181 (Being forwarded) is sent. The diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: sip:derived from Redirection number in ACM;cause=CAUSE _value>; index= 181 (CPG): History-Info not present			
diversion information Redirecting reason is mapped into the cause parameter of the hi-targeted-to-uri in a History-Info header in the sent 181 as indicated in table 6.3.3-25 ISUP Parameter values CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: <ii><ii><ii><ii><ii><ii><ii><ii><ii><ii< th=""><th></th></ii<></ii></ii></ii></ii></ii></ii></ii></ii></ii>			
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=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: sip:derived from Redirection number in ACM;cause=CAUSE _value>; index= 181 (CPG): History-Info not present	ie Call		
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: <ip><ip><ip><ip><ip><ip><ip><ip><ip><ip></ip></ip></ip></ip></ip></ip></ip></ip></ip></ip>			
Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: <sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived>	5		
Redirection number Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: <sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived>			
Call diversion information Redirecting reason =REAS_value SIP Parameter values 181: History-Info: <sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived>			
Redirecting reason =REAS_value SIP Parameter values 181: History-Info: <sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived>			
SIP Parameter values 181: History-Info: <sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived>			
History-Info: <sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived>			
<pre><sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index= 181 (CPG): History-Info not present</sip:derived></pre>			
181 (CPG): History-Info not present			
	<sip:derived _value="" acm;cause="CAUSE" from="" in="" number="" redirection="">; index=1</sip:derived>		
Comments			
Message flows SIP NNI MGCF SIP-I			
INVITE → INVITE (IAM)			
180 Ringing ← ← 180 Ringing (ACM)			
181 Being forwarded ← 183 Session Progress			
(CPG - call is diverting)			
Apply post test routine)		

TP number	TP 403 059	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
			table 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/		-	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5		
Test Purpose name	Mapping of a 183 Session Progress with encapsulated CPG Notification subscription			
	option presentation not allowed	option presentation not allowed no 181 (Being forwarded) is sent		
Test Purpose	Ensure that on receipt of a 181			
		indicator is set to 'Progress' a Redirection number and the Call diversion parameter is		
	present as an indication a call	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=cal	l is diverting		
	Redirection number			
	Call diversion information	on		
	Notification subscrip	tion options=presentation not a	allowed	
SIP Parameter values				
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	180 Ringing ←	←	180 Ringing (ACM)	
		←	183 Session Progress	
			(CPG - call is diverting)	
		Apply post test routine		

TP number TP_403_060 Reference [1], clause 7.2.1 [2], clause 7.5.4.3, table 7.5.4.3.9 TSS reference IMS-SS/CDIV/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/5 Test Purpose name Mapping of a 183 Session Progress with encapsulated CPG Notification subsciprocess.					
table 7.5.4.3.9 TSS reference					
TSS reference IMS-SS/CDIV/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/5					
Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/5					
Test Purpose name Mapping of a 183 Session Progress with encapsulated CPG Notification subsc					
options into 181 (Being forwarded) escaped Privacy header	•				
Ensure that on receipt of a 183 Session Progress with encapsulated CPG the I indicator is set to 'Progress' a Redirection number and the Call diversion param present as an indication a call diversion occurred, a 181 (Being forwarded) is sescaped Privacy header of the hi-targeted-to-uri in a History-Info header in the set to 'history'. When a 200 OK INVITE containing an encapsulated ANM mess received, a 200 OK INVITE is sent and a History-Info header is present, an escaped Privacy header is present.	neter is sent. The sent 181 is sage is				
Privacy header is present the value is set as indicated in table 6.3.3-26					
ISUP Parameter values					
Generic notification=call is diverting					
Redirection number					
Call diversion information					
Notification subscription options=NSO_value					
SIP Parameter values 181:					
History-Info: <sip:any proper="" uri;cause="any?Privacy=<b">history>; index=1</sip:any>					
181 (CPG): History-Info not present					
200 OK					
History-Info: sip: LAST_HIST_URI;cause=any?Privacy=PRIV_value>; inc	Jex=1				
Comments					
Message flows SIP NNI MGCF SIP-I					
INVITE → INVITE (IAM)					
180 Ringing ← 180 Ringing (ACM)					
181 Being forwarded ←					
(CPG - call is diverti	ng)				
180 Ringing ← ← 180 Ringing (CPG -	Alerting)				
200 OK ← 200 OK (ANM)					
ACK → ACK					
Apply post test routine					

TP number	TP_403_061	Reference		[1], clause 7.2.1 [2], clause 7.5.4.3,
				table 7.5.4.3.10
TSS reference	IMS-SS/CDIV/	·		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/5		
Test Purpose name	Mapping of a 180 Ringing with encapsulated CPG Alerting Redirection number into 180 (Ringing) History-Info header URI parameter			
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Redirection number Address signal digits are mapped into the hi-targeted-to-uri in a History-Info header in the sent 180 (Ringing) as indicated in table 6.3.3-24			
ISUP Parameter values	ACM: Call diversion inform Redirection number CPG: Event indicator=Aler Call diversion inform Redirection number Nature of address Address signal I	rting nation ss indicator= NOA_value		
SIP Parameter values	180: History-Info: <sip:derived (acm):="" 180="" f="" from="" history-info="" no<="" th=""><th>Redirection number in CP0</th><th>G;cause</th><th>e=Cause_value>; index=1</th></sip:derived>	Redirection number in CP0	G ;cause	e=Cause_value>; index=1
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	→	→	INVITE (IAM)
	181 Being forwarded	←	+	183 Session Progress (ACM)
	180 Ringing	←	←	180 Ringing (CPG - call is diverting)
		Apply post test rout	ine	

TP number	TP 403 061A	Reference	[1] alauga 7.2.1	
i P number	1P_403_061A	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
	11.40.00/0011//		table 7.5.4.3.10	
TSS reference	IMS-SS/CDIV/	0.0.0/5		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name			Redirection number into 180 (Ringing)	
	History-Info header Redirecting reason is mapped into the cause parameter			
Test Purpose			apsulated CPG the Event indicator is set	
			(Ringing) is sent. The cause parameter	
	value is mapped from the	e received Redirecting rea	son as indicated in table 6.3.3-25	
ISUP Parameter values	ACM: Call diversion info	rmation		
	Redirection numb	er		
	CPG: Event indicator=A	lerting		
	Redirection numb	er		
	Call diversion info	rmation		
	Redirecting re	ason = REAS_value		
SIP Parameter values	180:			
	History-Info:			
	<sip:any proper="" th="" u<=""><th>RI;cause=CAUSE _value</th><th>e>; index=1</th></sip:any>	RI;cause=CAUSE _value	e>; index=1	
	180 (ACM): History-Info	not present		
Comments	-	-		
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	181 Being forwarded	←	← 183 Session Progress	
			(ACM)	
	180 Ringing	←	← 180 Ringing	
	1		(CPG - call is diverting)	
	Apply post test routine			
		, ipply pool tool	i vaiii v	

TP number	TD 402 061B	Reference	[1] alauga 7.2.1	
i F number	TP_403_061B	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
T00 (W 40 00 (0D)) //		table 7.5.4.3.10	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name		osulated CPG Alerting Notificati	on subscription option the 180	
Test Purpose	(Ringing) containing a History-Info header is sent Ensure that on receipt of a 180 Ringing with encapsulated CPG the Event indicator is set			
rest Furpose	to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Privacy value is			
		OK INVITE containing an encap		
		s sent and a History-Info heade	r is present, an escaped	
IOUD D	Privacy header is present as			
ISUP Parameter values	ACM: Call diversion information	ation		
	Redirection number CPG: Event indicator=Alerting Redirection number			
	Call diversion information			
		ription options= NSO_value		
SIP Parameter values	180:			
	History-Info:			
	<pre><sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any></pre>			
	180 (ACM): History-Info not present			
	200 OK			
	History-Info:			
	sip: LAST_HIST_	URI;cause=any?Privacy=PRIV	_ value >; index=1	
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→ →	INVITE (IAM)	
	181 Being forwarded	+ +	183 Session Progress	
			(ACM)	
	180 Ringing	+ +	` ,	
			(CPG - call is diverting)	
	200 OK	+ +	1	
	ACK	→ →	ACK	
	Apply post test routine			
<u> </u>	1	Apply poor tool Toutine		

TP number	TP 403 061C	Reference	[1], clause 7.2.1		
Ti mambo.	11 _100_0010	1.01010100	[2], clause 7.5.4.3,		
			table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/		14510 7.0.1.0.10		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5			
Test Purpose name	Mapping of a 180 Ringing with an encapsulated CPG Alerting without Call Diversion				
	Information parameters the 1				
	parameter	3 3,	,		
Test Purpose	Ensure that on receipt of a 180	Ringing with encapsulated CF	PG the Event indicator is set		
	to 'Alerting' no Call diversion Ir				
	The cause parameter value is derived from the Redirection reason indicator of a previous				
	received Call diversion informa	tion parameter as indicated in	table 6.3.3-25		
ISUP Parameter values	ACM: Redirection number				
	Call diversion information				
	Call diversion information				
	Redirecting reason=	REAS_value			
	Redirection number				
	CPG: Event indicator=Alerting				
SIP Parameter values	181:	1 7 7 7			
	History-Info:				
		use=any?Privacy= history >; in	dex=1		
		180 (ACM): History-Info not present			
	180:				
	History-Info: <pre><sip: _value?privacy="history" any="" proper="" uri;cause="CAUSE">; index=1</sip:></pre>				
Comments	<sip. any="" proper="" th="" uri,ca<=""><th>iuse-CAUSE _value ?Privacy-</th><th>-nistory>, index=1</th></sip.>	iuse-CAUSE _value ?Privacy-	-nistory>, index=1		
	SIP NNI	MGCF	SIP-I		
Message flows	INVITE -		INVITE (IAM)		
		-	,		
	181 Being forwarded ←	•	183 Session Progress		
	180 Ringing ←	+	(ACM)		
	180 Ringing ←	•	180 Ringing		
		Apply post tost routing	(CPG - Alerting)		
		Apply post test routine			

TP number	TP_403_061D	Reference	[1], clause 7.2.1		
			[2], clause 7.5.4.3,		
			table 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/				
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of a 180 Ringing with an encapsulated CPG Alerting without Call Diversion				
		180 (Ringing) containing a Hist	ory-Info header is sent,		
	Privacy value				
Test Purpose		Ensure that on receipt of a 180 Ringing with encapsulated CPG the Event indicator is set			
		nformation parameters are pres			
		story'. On receipt of a 200 OK II			
	ISUP ANM message is received, a 200 OK INVITE is sent and a History-Info header is				
	present an escaped Privacy header is present as indicated in table 6.3.3-26				
ISUP Parameter values	ACM: Call diversion information				
	Redirection number				
	Call diversion information				
	Notification subscription options=NSO_value CPG: Event indicator=Alerting				
SIP Parameter values	181:				
SIP Parameter values	History-Info:				
		<pre><sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any></pre>			
	180 (ACM): History-Info not p		idex-1		
	200 OK				
	History-Info: sip: LAST_HIST_URI;cause=any?Privacy=PRIV_value>; index=1				
Comments			_ = ,		
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	INVITE (IAM)		
	181 Being forwarded	÷	183 Session Progress		
			(ACM)		
	180 Ringing	÷	180 Ringing (CPG - Alerting)		
	200 OK	÷	200 OK (ANM)		
	ACK =	→	ACK ´		
		Apply post test routine			

TP number	TP 403 061E	Reference	[1], clause 7.2.1	
			[2], clause 7.5.4.3,	
			table 7.5.4.3.10	
TSS reference	IMS-SS/CDIV/	•	<u> </u>	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name		Mapping of a 180 Ringing with an encapsulated CPG Alerting without Call Diversion Information parameters the 180 (Ringing) a History-Info header is not present		
Test Purpose	183 Session Progress present the Notification on receipt of a 180 Ring	with encapsulated ACM Call subscription options is set to ging with encapsulated CPG nation parameters are preser	diversion Information parameters are between the presentation not allowed. Ensure that the Event indicator is set to 'Alerting' it, a 180 (Ringing) is sent. A History-	
ISUP Parameter values	ACM: Redirection num Call diversion in Notification s CPG: Event indicator=	formation subscription options=presenta	ation not allowed	
SIP Parameter values	180: History-Info header			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
			 183 Session Progress (ACM) 	
	180 Ringing	←	← 180 Ringing (CPG - Alerting)	
		Apply post test ro	outine	

TP number	TP 403 062	Reference	[1], clause 7.2.1			
Fildiliber	17_403_002	Reference	[2], clause 7.5.4.3,			
			table 7.5.4.3.7			
TSS reference	IMS-SS/CDIV/		table 1.5.4.5.1			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5					
Test Purpose name	Mapping of a 181 Being forwarded with encapsulated CPG Alerting Redirection Number					
T D	Restriction into 180 (Ringing) Priva		100011 5 1: 1: 1:			
Test Purpose	Ensure that on receipt of a 181 Be					
	set to 'Alerting' a Redirection Num					
	The Redirection Number Restriction		into the Privacy header in the			
	sent 180 as indicated in table 6.3.3-27					
ISUP Parameter	ACM: Backward call indicator					
values	Called party status=no indication					
	Generic notification=call is diverting					
	Call diversion information					
	Notification subscription options=NSO_value					
	Redirection number					
	CPG: Event indicator=Alerting					
	Redirection Number Restriction=PRES_restr					
SIP Parameter values	180:					
	History-Info:					
	<sip:any proper="" th="" uri;cause<=""><th>=any?Privacy=PRIV_value>;</th><th>ndex=1</th></sip:any>	=any?Privacy= PRIV_value >;	ndex=1			
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	→	INVITE (IAM)			
	181 Being forwarded ←	←	183 Session Progress			
			(ACM)			
	180 Ringing ←	←	180 Ringing			
			(CPG - Alerting)			
		Apply post test routine	`			
	1	P.P. 7 P				

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

TP number	TP_403_064	Reference	[1], clause 7.2.1		
			[2], clause 7.5.4.3, table 7.5.4.3.7		
TSS reference	IMS-SS/CDIV/		table 1.5.4.5.1		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name		Mapping of 200 OK INVITE with encapsulated ANM Redirection Number Restriction into			
rest i dipose name	200 OK INVITE Privacy header				
Test Purpose	Ensure that on receipt of a 200 OK INVITE with encapsulated ANM a Redirection Number				
-	Restriction parameter is prese	Restriction parameter is present as an indication a call diversion occurred, a 200 OK			
	INVITE is sent. The Redirection	INVITE is sent. The Redirection Number Restriction parameter value is mapped into the			
	Privacy header in the sent 200 OK INVITE as indicated in table 6.3.3-27				
ISUP Parameter values	ACM: Generic notification=call is diverting				
	Call diversion information				
	Notification subscription options=NSO_value				
	Redirection number				
	ANM:				
	Redirection Number Re	estriction=PRES_restr			
SIP Parameter values	200 OK INVITE:				
	History-Info: <sip:any proper="" uri;cause="any?Privacy=<b">PRIV_value>; index=1</sip:any>				
	200 (ANM): History-Info not p	resent			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	· -	INVITE (IAM)		
	181 Being forwarded ← 183 Session Progress (ACM)				
	180 Ringing ←	· ←	180 Ringing (CPG)		
	200 OK INVITE	· ←	200 OK INVITE (ANM)		
	ACK -		ACK		
		Apply post test routine			

6.3.4 Conference call (CONF)

TP_404_001	Reference			
		[1], clause 7.2.1 [2]. clause 7.5.6.2		
PSTN-SS/CONF/				
PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1				
'isfocus' parameter and conference URI in Contact header in ACK received, a SUBSCRIBE is sent				
Ensure that on receipt of an INVITE request and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent after the ACK was received. The Request URI contains the value received in the Contact header in the ACK, the To header is set to the value sent in the 180 Ringing, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the 180 Ringing or the 200 OK INVITE the Privacy header is sent as in the 180 Ringing or 200 OK INVITE				
INVITE: Contact: <conference uri="">; isfocus SUBSCRIBE: Request URI derived from the Contact header To: <uri 180="" equal="" in="" the="" to="" value=""> P-Asserted-Identity: < URI equal to the value in the 180 or 200></uri></conference>				
SIP NNI INVITE → 100 Trying ← 180 Ringing ← 200 OK (INVITE) ← ACK → SUBSCRIBE ← 202 Accepted →	→	SIP-I INVITE (IAM) 180 Ringing (ACM) 200 OK (INVITE) (ANM)		
	PICS 6.3.1/2 AND PICS 6.3.2/2 'isfocus' parameter and confere is sent Ensure that on receipt of an IN' containing the conference URI after the ACK was received. The header in the ACK, the To head P-Asserted-Identity is set to the the 200 OK INVITE the Privacy INVITE: Contact: <conference (invite)="" 100="" 180="" 200="" <uri="" ack="" conf<="" conference="" der="" equal="" invite="" nni="" ok="" p-asserted-identity="" request="" ringing="" sip="" subscribe="" subscribe:="" th="" to="" to:="" trying="" uri=""><th>PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1 'isfocus' parameter and conference URI in Contact header in is sent Ensure that on receipt of an INVITE request and a Contact he containing the conference URI and the 'isfocus' parameter, a after the ACK was received. The Request URI contains the value after the ACK, the To header is set to the value sent in the P-Asserted-Identity is set to the value of the P-Asserted-Identithe 200 OK INVITE the Privacy header is sent as in the 180 F INVITE: Contact: <conference uri="">; isfocus SUBSCRIBE: Request URI derived from the Contact header To: <uri 180="" equal="" in="" the="" to="" value=""> P-Asserted-Identity: < URI equal to the value in SIP NNI MGCF INVITE TO Trying **Example 180 Ringing **Example 200 OK (INVITE) ACK **SUBSCRIBE** **Example 200 OK (INVITE) **Example 3.2/20 AND PICS 6.3.9/1 **INVITE</uri></conference></th></conference>	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1 'isfocus' parameter and conference URI in Contact header in is sent Ensure that on receipt of an INVITE request and a Contact he containing the conference URI and the 'isfocus' parameter, a after the ACK was received. The Request URI contains the value after the ACK, the To header is set to the value sent in the P-Asserted-Identity is set to the value of the P-Asserted-Identithe 200 OK INVITE the Privacy header is sent as in the 180 F INVITE: Contact: <conference uri="">; isfocus SUBSCRIBE: Request URI derived from the Contact header To: <uri 180="" equal="" in="" the="" to="" value=""> P-Asserted-Identity: < URI equal to the value in SIP NNI MGCF INVITE TO Trying **Example 180 Ringing **Example 200 OK (INVITE) ACK **SUBSCRIBE** **Example 200 OK (INVITE) **Example 3.2/20 AND PICS 6.3.9/1 **INVITE</uri></conference>		

TP number	TP 404 002	Reference	[1], clause 7.3.1		
			[2], clause 7.5.6.2		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/20 AND PICS 6.3.9/1			
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: <uri equal="" in="" invite="" the="" to="" value=""></uri></uri></conference>				
Comments					
Message flows	SIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM) 200 OK (INVITE) (ANM) ACK	MGCF ← ← →	SIP NNI → INVITE ← 100 Trying ← 180 Ringing ← 200 OK (INVITE) → ACK → SUBSCRIBE ← 202 Accepted		
		Apply post test ro	•		

TP_number TP_404_003 Reference [1], clause 7.2.1 [2], clause 7.5.6.3 TSS reference PSTN-SS/CONF/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1 Test Purpose name Interworking of notification of 'Conference established' at the I-MGCF Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is and the Generic notification parameter is set to 'Conference established' ISUP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active Event: conference</conference>					
TSS reference PSTN-SS/CONF/ Selection criteria PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1 Test Purpose name Interworking of notification of 'Conference established' at the I-MGCF Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is and the Generic notification parameter is set to 'Conference established' ISUP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
Selection criteria					
Test Purpose name Interworking of notification of 'Conference established' at the I-MGCF Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is and the Generic notification parameter is set to 'Conference established' ISUP Parameter values CPG: Generic notification Conference established INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
Test Purpose Ensure that on receipt of an initial INVITE request and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is and the Generic notification parameter is set to 'Conference established' ISUP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is and the Generic notification parameter is set to 'Conference established' ISUP Parameter values CPG: Generic notification Conference established SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
request as a response to the SUBSCRIBE request and a XML conference-info instance present, the 'conference-state' 'active' element is set to 'true' an ISUP CPG message is and the Generic notification parameter is set to 'Conference established' ISUP Parameter values CPG: Generic notification Conference established SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
and the Generic notification parameter is set to 'Conference established' ISUP Parameter values CPG: Generic notification Conference established SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>	set ——				
ISUP Parameter values CPG: Generic notification Conference established INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
Conference established SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
SIP Parameter values INVITE: Contact: <conference uri="">; isfocus NOTIFY: Subscription-State: active</conference>					
NOTIFY: Subscription-State: active					
Event: conference					
Content-Type: application/conference-info+xml					
xml version="1.0"</th <th colspan="5">1741111 10101011 110</th>	1741111 10101011 110				
conference-info	conference-info conference-state				
	active>true<				
Comments					
Message flows					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 Trying ← 100 Trying				
Too Kinging (ACM)	180 Ringing ←				
200 OK (INIVITE)	200 OK (INIVITE)				
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)				
ACK 7 ACK	ACK → ACK				
SUBSCRIPE 4	SUBSCRIPE &				
202 Accepted	SUBSCRIBE ← 202 Accepted →				
NOTIFY → INFO (CPG)					
200 OK (NOTIFY) ← 200 OK (INFO)					
Apply post test routine					

TP number	TP_404_004	Reference	[1], clause 7.3.1 [2], clause 7.5.6.3
TSS reference	PSTN-SS/CONF/	-	11 12
Selection criteria	PICS 6.3.1/2 AND PICS 6	.3.2/20 AND PICS 6.3	9/1
Test Purpose name	Interworking of notification of 'Conference established' at the O-MGCF		
Test Purpose	Ensure that on receipt of an INVITE request after a session was established and the Contact header contains the isfocus parameter, a SUBCRIBE request is sent. Ensure that on receipt of a NOTIFY request as a response to the SUBSCRIBE request and a XML conference-info instance is present, the 'active' sub element of the 'conference-state' element is set to 'true' an INFO with encapsulated ISUP CPG message is set and the Generic notification parameter is set to ' Conference established '. The INVITE request contains also a Replaces header to terminate the originally session by sending a BYE request CPG: Generic notification		
ISUP Parameter values	CPG: Generic notification Conference established		
SIP Parameter values	INVITE 1: CallID: xxx INVITE 2: CallID: yyy Contact: <confe conferer<="" event:="" notify:="" replaces:="" subscription-st="" th="" xxx;=""><th>erence URI>; isfocus to-tag=<>;from-tag=<> ate: active nce application/conference "1.0"</th><th></th></confe>	erence URI>; isfocus to-tag=<>;from-tag=<> ate: active nce application/conference "1.0"	
Comments	Note that the INVITE received in the confirmed dialogue is originated by the conference focus. The originally dialogue has to terminated		
Message flows	SIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM) 200 OK (INVITE) (ANM) ACK INFO (CPG) 200 OK INFO	MGCF	SIP NNI → INVITE 1 ← 100 Trying ← 180 Ringing ← 200 OK (INVITE) → ACK ← INVITE 2 → 200 OK (INVITE) ← ACK → SUBSCRIBE ← 202 Accepted ← NOTIFY → 200 OK (NOTIFY)
		Apply post tes	← BYE → 200 OK (BYE) st routine

TP number	TP_404_005	Reference	[1], clause 7.2.1		
			[2], clause 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 'other party added' at the I-MGCF				
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request				
		at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the			
		'endpoint' element does not contain the ISUP address as received in the To header and the			
	'status' sub element of the 'endpoint' element is set to connected , an INFO with				
	encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'other				
	party added'				
ISUP Parameter values	CPG: Generic notification				
	other party added				
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>				
		Subscription-State: active			
	Event: conference				
		cation/conference-info+xml			
	xml version="1.0"</th <th></th> <th></th>				
	conference-info				
	users				
	user	and the state of t			
		entity=" <not isup="" of="" uri="">" >connected<</not>			
Comments	Status	>connected<			
	SIP NNI	MGCF	SIP-I		
Message flows	*** ****				
		established and joined in a c			
	NOTIFY ->	=	INFO (CPG)		
	200 OK (NOTIFY) ←	-	200 OK (INFO)		
	Apply post test routine				

TP number	TP 404 006	Reference	[1], clause 7.3.1		
			[2], clause 7.5.6.3		
TSS reference	PSTN-SS/CONF/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of notification of 'other party added' at the O-MGCF				
Test Purpose			ot of an adequate NOTIFY request		
	at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the				
		'endpoint' element does not contain the ISUP address as received in the To header and the status' sub element of the 'endpoint' element is set to connected , an INFO with			
	encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'other				
10110	party added'				
ISUP Parameter values	CPG: Generic notification				
OID D	other party added NOTIFY: To: <sip-i address=""></sip-i>				
SIP Parameter values					
		Subscription-State: active Event: conference			
		Content-Type: application/conference-info+xml			
	<pre><?xml version="1.0"</pre></pre>	cation/conterence-into+xr	III		
	conference-info				
	users				
	users				
		entity=" <not isup:<="" of="" th="" uri=""><th>>"</th></not>	>"		
	status>connected<				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
_	Session is	established and joined	in a conference		
	INFO (CPG) ←	· ←	NOTIFY		
	200 OK INFO →	→	200 OK (NOTIFY)		
		Apply post test routing	ne		

TSS reference	TP number	TP_404_007	Reference	[1], clause 7.2.1
Pics 6.3.1/2 AND Pics 6.3.2/20 AND Pics 6.3.9/1				[2], clause 7.5.6.3
Interworking of notification of 'isolated' 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 contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to on-hold, an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'isolated' CPG: Generic notification isolated NOTIFY: To: <sip-i address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I>" status>on-hold< COmments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY</sip-i>				
at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to on-hold , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'isolated' ISUP Parameter values SIP Parameter values NOTIFY: To: <sip-i address=""> Subscription-State: active Event: conference Conference Conference Conference-info users user users users users Satus-on-hold< Comments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) - INFO (CPG) 200 OK (NOTIFY) - INFO (CPG) 200 OK (NOTIFY) - INFO (CPG) - INFO (CPG)</sip-i>				
'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to on-hold , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'isolated' ISUP Parameter values CPG: Generic notification	Test Purpose			
sub element of the 'endpoint' element is set to on-hold , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'isolated' CPG: Generic notification Isolated NOTIFY: To: <sip-i address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I>" status>on-hold< Comments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY Session is established and joined in a conference CASE B NOTIFY CASE B NOTIFY NOTI</sip-i>				
CPG message is sent the Generic notification indicator is set to 'isolated' CPG: Generic notification Isolated SIP Parameter values NOTIFY: To: <sip-i address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I>" status>on-hold< Comments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY</sip-i>				
SIP Parameter values				
Solated			neric notification indicator is se	et to 'isolated'
NOTIFY: To: <sip-i address=""> Subscription-State: active </sip-i>	ISUP Parameter values			
Subscription-State: active Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I " status>on-hold< Comments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) 200 OK (INVITE) PINVITE (sendonly) 200 OK (INVITE)				
Event: conference Content-Type: application/conference-info+xml xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I " status>on-hold< Comments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) 200 OK (INVITE) Figure 1.0" A SIP-I Session is established and joined in a conference CASE B NOTIFY → INFO (CPG) 200 OK INFO INVITE(sendonly) 200 OK (INVITE)	SIP Parameter values	_		
Content-Type: application/conference-info+xml xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I " status>on-hold< Comments Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) 200 OK (INVITE) We will be application/conference-info+xml			active	
xml version="1.0" conference-info users user endpoint entity="<URI of SIP-I " status>on-hold Comments SIP NNI MGCF SIP-I Status Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK (NOTIFY) ← 200 OK (NOTIFY) → INFO (CPG) 200 OK (NOTIFY) INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) → INVITE (sendonly) 200 OK (INVITE)				
Conference-info Users User endpoint entity=" <uri of="" sip-i="">" status>on-hold< </uri>				
Users User endpoint entity=" <uri of="" sip-i="">" status>on-hold< </uri>		174111 10101011 110		
User				
endpoint entity=" <uri of="" sip-i="">"</uri>				
Status>on-hold<				
Comments SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)				
Message flows SIP NNI MGCF SIP-I Session is established and joined in a conference CASE A NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)	Comments	Statu	s-on-noid>	
Session is established and joined in a conference CASE A NOTIFY NOT		SIP NNI	MGCF	SIP-I
CASE A NOTIFY → → INFO (CPG) 200 OK (NOTIFY) ← ± 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← ± 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)	Message news			_
NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)			cotabilorica ana joinea in a	Comerciae
200 OK (NOTIFY) ←				INFO (CPG)
CASE B NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)				
NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)		200 OK (NOTH 1)	•	200 OK INI O
NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK INFO INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)		CASE B		
200 OK (NOTIFY) ←				INEO (CDC)
INVITE(sendonly) → INVITE (sendonly) 200 OK (INVITE) ← 200 OK (INVITE)				
200 OK (INVITE) ← ← 200 OK (INVITE)		200 OK (NOTIFY)	•	200 OK INFO
200 OK (INVITE) ← ← 200 OK (INVITE)		INVITE(sendonly)	>	INVITE (sendonly)
		\		
Apply post test routine			·	

Test Purpose name Interworking of not Test Purpose An established cor at the O-MGCF. En 'endpoint' element	nsure that on receipt of a contains the ISUP addre 'endpoint' element is set ent the Generic notificati		
Selection criteriaPICS 6.3.1/2 ANDTest Purpose nameInterworking of notTest PurposeAn established cor at the O-MGCF. En 'endpoint' element	ification of 'isolated' at the ofference is already indicated in the onsure that on receipt of a contains the ISUP addre 'endpoint' element is set ent the Generic notification	e O-MGCF ted by receipt of an adequate NOTIFY reque NOTIFY request and the 'entity' attribute of t ss as received in the To header and the 'stat to on-hold , an INFO with encapsulated ISU	
Test Purpose name Interworking of not Test Purpose An established cor at the O-MGCF. En 'endpoint' element	ification of 'isolated' at the ofference is already indicated in the onsure that on receipt of a contains the ISUP addre 'endpoint' element is set ent the Generic notification	e O-MGCF ted by receipt of an adequate NOTIFY reque NOTIFY request and the 'entity' attribute of t ss as received in the To header and the 'stat to on-hold , an INFO with encapsulated ISU	
Test Purpose An established cor at the O-MGCF. Er 'endpoint' element	nference is already indicates that on receipt of a contains the ISUP addre 'endpoint' element is set ent the Generic notification.	ted by receipt of an adequate NOTIFY reque NOTIFY request and the 'entity' attribute of t ss as received in the To header and the 'stat to on-hold , an INFO with encapsulated ISU	
at the O-MGCF. Er 'endpoint' element	nsure that on receipt of a contains the ISUP addre 'endpoint' element is set ent the Generic notificati	NOTIFY request and the 'entity' attribute of to ss as received in the To header and the 'stat to on-hold , an INFO with encapsulated ISU	
'endpoint' element	contains the ISUP addre 'endpoint' element is set ent the Generic notificati	ss as received in the To header and the 'stat to on-hold , an INFO with encapsulated ISU	
	'endpoint' element is set ent the Generic notificati	to on-hold, an INFO with encapsulated ISU	
	ent the Generic notificati		
		on indicator is set to isolated	
ISUP Parameter values CPG: Generic not			
Isolated			
SIP Parameter values NOTIFY: To: <sif< th=""><th></th><th></th></sif<>			
	otion-State: active conference		
	-Type: application/confer	ones info±vml	
		ence-ino-xim	
	xml version="1.0" conference-info</th		
	users		
	user		
	endpoint entity=" <uri of="" sip-i="">"</uri>		
	status>on-hold<		
Comments			
Message flows SIP-I	MGCF	SIP NNI	
	Session is established	and joined in a conference	
CASE A		•	
INFO (CPG)	←	← NOTIFY	
200 OK (INFO)	→	→ 200 OK (NOTIFY)	
		,	
CASE B			
INFO (CPG)	←	← NOTIFY	
200 OK INFO	→	→ 200 OK (NOTIFY)	
		,	
INVITE(sendonly)	←	← INVITE(sendonly)	
200 OK (INVITE)	→	→ 200 OK (INVITE)	
ACK	-	← ACK	
	-	st test routine	

TP number	TP_404_009	Reference	[1], clause 7.2.1	
			[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/	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 'c	ther party isolated' at the I-MG	CF	
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
	at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the			
	'endpoint' element does not contain the ISUP address as received in the To header and the			
	'status' sub element of the 'end			
	ISUP CPG message is sent the	e Generic notification indicator	is set to 'other party	
	isolated'			
ISUP Parameter values	CPG: Generic notification			
	other party isolated			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: active			
	Event: conference			
	<pre>content-Type: applic <?xml version="1.0"</pre></pre>	cation/conference-info+xml		
	conference-info			
	users			
	user	ontity=" <not islid="" lidl="" of="">"</not>		
	endpoint entity=" <not isup="" of="" uri="">" status>on-hold<</not>			
Comments	Status	- OII-1101Q \		
Message flows	SIP NNI	MGCF	SIP-I	
message nows	*** ****	established and joined in a c		
	NOTIFY ->	_	INFO (CPG)	
	200 OK (NOTIFY)	-	200 OK INFO	
	Apply post test routine			
	Appriy post test routine			

TP number	TP 404 010	Reference	[1], clause 7.2.1	
			[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'other party isolated' at the O-MGCF			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
	at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the			
		'endpoint' element does not contain the ISUP address as received in the To header and the		
			-hold, an INFO with encapsulated	
	ISUP CPG message is sent th	e Generic notification indica	ator is set to 'other party	
	isolated'			
ISUP Parameter values	CPG: Generic notification			
	other party isolated			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: active			
	Event: conference			
	Content-Type: application/conference-info+xml xml version="1.0"</th			
	conference-info			
	USERS			
	user endpoint entity=" <not isup="" of="" uri="">"</not>			
	status>on-hold<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Session is	established and joined in	n a conference	
	INFO (CPG) ←	+	NOTIFY	
	200 OK INFO →	→ :	200 OK (NOTIFY)	
	Apply post test routine			

TP number	TP_404_011	Reference	[1], clause 7.2.1	
TSS reference	PSTN-SS/CONF/		[2], clause 7.5.6.3	
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'reattached' at the I-MGCF			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
·	and isolated at the I-MG attribute of the 'endpoin and the 'status' sub eler encapsulated ISUP CPG 'reattached'	and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to connected , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to		
ISUP Parameter values	CPG: Generic notificat reattached	ion		
SIP Parameter values	NOTIFY: To: <sip-i ac<="" th=""><th></th><th></th></sip-i>			
	Subscription-			
	Event: confer		info (see)	
		e: application/conference	-inio+xmi	
	xml version="1.0" conference-info</th			
	users	110		
	user			
		dpoint entity=" <uri of="" s<="" th=""><th>IP-I>"</th></uri>	IP-I>"	
		status>connected<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Session	is established joined ir	a conference and isolated	
	CASE A			
	NOTIFY	→	→ INFO (CPG)	
	200 OK (NOTIFY)	←	← 200 OK (INFO)	
	CASE B			
	NOTIFY	→	→ INFO (CPG)	
	200 OK (NOTIFY)	←	← 200 OK (INFO)	
	INVITE(sendrecv)	→	→ INVITE(sendrecv)	
	200 OK (INVITE)	←	€ 200 OK (INVITE)	
	ACK	→	→ ACK	
		Apply post te	st routine	

TP number	TP_404_012	Reference	[1], clause 7.3.1	
			[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1			
Test Purpose name		Interworking of notification of 'reattached' at the O-MGCF		
Test Purpose			ot of an adequate NOTIFY request	
			NOTIFY request and the 'entity'	
			dress as received in the To header	
			set to connected , an INFO with	
	encapsulated ISUP CPG message is sent the Generic notification indicator is set to			
	'reattached'			
ISUP Parameter values	CPG: Generic notification			
	Reattached			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: Event: conference	active		
		cation/conforance info+vr	nl	
	Content-Type: application/conference-info+xml xml version="1.0"</th			
	conference-info			
	users			
	user			
	endpoint entity=" <uri of="" sip-i="">"</uri>			
	status>connected<			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	Session is established joined in a conference and isolated			
	CASE A			
	INFO (CPG) ←	-	NOTIFY	
	200 OK (INFO) →	→	200 OK (NOTIFY)	
	CASE B			
	INFO (CPG) ←	←	NOTIFY	
	200 OK (INFO) →	→	200 OK (NOTIFY)	
	INVITE(sendrecv)	←	INVITE(sendrecv)	
	200 OK (INVITE) →	→	200 OK (INVITE)	
	ACK ←	←	ACK	
		Apply post test routing	ne	

TP number	TP_404_013	Reference	[1], clause 7.2.1	
			[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'o	ther party reattached' at the I-N	MGCF	
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
	and another party is isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request			
	and the 'entity' attribute of the 'endpoint' element does not contain the ISUP address as			
	received in the To header and			
	connected, an INFO with enca		is sent the Generic	
	notification indicator is set to 'o	ther party reattached'		
ISUP Parameter values	CPG: Generic notification			
	other party reattache			
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>			
	Subscription-State: active			
	Event: conference			
		cation/conference-info+xml		
	xml version="1.0"</th <th></th> <th></th>			
	conference-info			
	users			
	user			
	endpoint entity=" <not isup="" of="" uri="">"</not>			
	status	>connected<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	_	oined in a conference and and		
	NOTIFY →	-	INFO (CPG)	
	200 OK (NOTIFY) ←	=	200 OK (INFO)	
	Apply post test routine			

TP number	TP 404 014	Reference	[1], clause 7.2.1
			[2], clause 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 'other party reattached' at the O-MGCF		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request		
	and another party is isolated at the O-MGCF. Ensure that on receipt of a NOTIFY request		
			ot contain the ISUP address as
			of the 'endpoint' element is set to
	connected, an INFO with enca		sage is sent the Generic
	notification indicator is set to 'o	ther party reattached'	
ISUP Parameter values	CPG: Generic notification		
	other party reattached		
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>		
	Subscription-State: active		
	Event: conference		
	Content-Type: application/conference-info+xml		
	xml version="1.0"</th		
	conference-info		
	users		
	user		
	•	entity=" <not isup<="" of="" th="" uri=""><th>>"</th></not>	>"
0	status>connected<		
Comments	CID NINII	MOOF	OID I
Message flows	SIP NNI	MGCF	SIP-I
			nd another party was isolated
	INFO (CPG)	(NOTIFY
	200 OK (INFO)	→	200 OK (NOTIFY)
		Apply post test routing	ne

TP number	TP_404_015	Reference	[1], clause 7.2.1
			[2], clause 7.5.6.3
TSS reference	PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	20 AND PICS 6.3.9/1	
Test Purpose name	Interworking of notification of 'other party disconnected' at the I-MGCF		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to dialled-out , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'other party disconnected'		
ISUP Parameter values	CPG: Generic notification other party disconne	ected	
SIP Parameter values	NOTIFY: To: <sip-i address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<not URI of ISUP>" status>disconnected< joining-method>dialled-in< or joining-method>dialled-out<</sip-i>		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
		established and joined in a d	
	NOTIFY -		INFO (CPG)
	200 OK (NOTIFY) ←		200 OK (NOTIFY)
		Apply post test routine	

TP number	TP 404 016	Reference	[1], clause 7.2.1
Filamber	17_404_010	Kelelelice	[2], clause 7.2.1
TSS reference	PSTN-SS/CONF/		[[2], Glause 7.0.0.0
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'other party disconnected' at the O-MGCF		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the '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 dialled-out , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'other		
	party disconnected		
ISUP Parameter values	CPG: Generic notification		
	other party disconnected		
SIP Parameter values Comments	NOTIFY: To: <sip-i address=""> Subscription-State: active Event: conference Content-Type: application/conference-info+xml <?xml version="1.0" conference-info users user endpoint entity="<not URI of ISUP>" status>disconnected< or joining-method>dialled-out<</sip-i>		
Message flows	SIP NNI	MGCF	SIP-I
Wessage Hows		ssion is established and jo	U
	INFO (CPG)	+	← NOTIFY
	200 OK (INFO)	• →	→ 200 OK (NOTIFY)
		Apply post test	

6.3.5 Message Waiting Indication (MWI)

Void.

6.3.6 Malicious Communication Identification (MCID)

Table 6.3.6-1: Void

Table 6.3.6-2: Void

Table 6.3.6-3: Void

Table 6.3.6-4: Void

TP number	TP_406_005	Reference	[1], clause 7.2.1
			[2], clause 7.5.9.2.2
TSS reference	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 request		
Test Purpose	Ensure that on receipt of INFO with encapsulated ISUP IDR containing a MCID request		
	indicators indicator set to MCII		
	McidRequestIndicator is include	ed set to XML_McidReq as in	dicated in table 6.3.6-5
ISUP Parameter values	IDR: MCID request indicator	S	
	MCID_req		
SIP Parameter values	INFO:		
	xml version="1.0"</th		
	mcid		
	request>		
	McidRequestIndicator> XML_McidReq </th		
	HoldingIndicator>1 </th		
	INFO (IDR) no xml body present		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	• →	INVITE (IAM)
	100 Trying ←	· ←	100 Trying
	INFO +	· ←	INFO (IDR)
	200 OK INFO	· -	200 OK INFO
	Apply post test routine		

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

VA	MCID_req	XML_McidReq
VA_01	MCID not requested	0
VA 02	MCID requested	1

TP number	TP 406 006	Reference	[1], clause 7.2.1			
			[2], clause 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	INFO request is mapped into ISUP IRS				
Test Purpose		IFO request the XML 'mcid' Mc				
		psulated ISUP IRS is sent. The	e MCID response indicator is			
	set to MCID_rsp as indicated i					
ISUP Parameter values	IRS: MCID response indicate	or				
	MCID_rsp					
SIP Parameter values	INFO:					
	xml version="1.0"</th <th colspan="4"><?xml version="1.0"</th></th>	xml version="1.0"</th				
	mcid	mcid				
	response>					
	McidResponseIndicator> XML_McidRsp </th					
	INFO (IDR) no xml body present					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	·	INVITE (IAM)			
	100 Trying	·	100 Trying			
	INFO €	·	INFO (IDR)			
	200 OK INFO	→	200 OK INFO			
	INFO -	·	INFO (IRS)			
	200 OK INFO ← 200 OK INFO					
	Apply post test routine					

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

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

TP number	TP_406_007	Reference	[1], clause 7.2.1		
			[2], clause 7.5.9.2.3		
TSS reference	IMS-SS/MCID/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3				
Test Purpose name	XML OrigPartyIdentity is mapped into ISUP IRS Calling Party number				
Test Purpose		Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to			
	MCID_rsp, an INFO with enca				
	The XML OrigPartyIdentity is r				
	If the country code of the OrigPartyIdentity URI is equal to the country code where the				
	SUT is located the Nature of address is set to 'National (significant) number', the '+'				
		moved from the user part of th			
		ignals of the Calling party num			
		OrigPartyIdentity URI is not eq			
		ture of address is set to ' Interr			
			URI and send in the Address		
	signals of the Calling party				
	The XML OrigPartyPresentation				
	Address presentation restriction	n indicator APRI_value of the	Calling party number as		
	indicated in table 6.3.6-7				
ISUP Parameter values	IRS: MCID response indicator				
	MCID included				
	Calling Party number Address presentation restriction indicator= APRI_value				
	Address signal= derived from the OrigPartyldentity				
SIP Parameter values	INFO: xml version="1.0"</th				
	mcid				
	response> McidResponseIndicator>1 </th				
	OrigPartyIdentity> a				
		onRestriction> XML_orig_rest	r </th		
	INFO (IDR) no xml body prese		1 4		
Comments	())				
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	· →	INVITE (IAM)		
	100 Trying ←	· ←	100 Trying		
	INFO €		INFO (IDR)		
	200 OK INFO → 200 OK INFO				
		-			
	INFO -	· •	INFO (IRS)		
	200 OK INFO				
		Apply post test routine			
<u> </u>					

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

VA	XML_orig_restr	APRI_value
VA_01	True	Presentation restricted
VA 02	False	Presentation allowed

TP number	TP_406_008	Reference	[1], clause 7.2.1 [2], clause 7.5.9.2.3			
TSS reference	IMS-SS/MCID/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.					
Test Purpose name	XML GenericNumber is map		l calling Party number			
Test Purpose	Ensure that on receipt of an INFO request the XML 'mcid' McidResponseIndicator is set to					
	MCID_rsp, an INFO with end		1			
	The XML GenericNumber is		alling party:			
	 If the country code of the 	e GenericNumber URI is equ	al to the country code where the			
	SUT is located the Natu	SUT is located the Nature of address is set to 'National (significant) number', the '+'				
			of the XML GenericNumber URI			
		signals of the Additional call				
			equal to the country code where			
			ternational number', the '+' is			
			per URI and send in the Address			
	signals of the Additional					
			ML_gen_restr is mapped into the			
	Address presentation restrict		the Additional calling party			
IOUD D	number as indicated in table					
ISUP Parameter values	IRS: MCID response indicator					
	MCID included Generic number					
		Additional calling Party number				
		Address presentation restriction indicator= APRI_value				
		Address signal				
SIP Parameter values	INFO:					
on rarameter values	xml version="1.0"</th					
	mcid					
		response>				
	McidResponseIndicator>1 </th					
		derived from the Generic n	umber Address signal </th			
		esentationRestriction> XML _				
	INFO (IDR) no xml body pres	sent				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
		→	→ INVITE (IAM)			
	100 Trying	←	← 100 Trying			
	INFO	←	← INFO (IDR)			
	200 OK INFO	→	→ 200 OK INFO			
	INFO	→	→ INFO (IRS)			
	200 OK INFO					
		Apply post test routine				

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

VA	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	[1], clause 7.2.1	
			[2], clause 7.5.10.1,	
			table 7.5.10.1.1, table 7.5.10.1.2	
TSS reference	IMS-SS/CUG/		table 7.5.10.1.2	
Selection criteria	PICS 6.3.2/23 AND NOT PICS 6.3.10/2			
	Mapping of the SIP XML CUG		acraraus interlegicando	
Test Purpose name	parameter		· .	
Test Purpose	Ensure that on receipt of an IN			
	application/vnd.etsi.cug+xml ar			
	sent. The XML 'networkIndicate	or' is mapped into the ISUP Clo	osed user group interlock	
	code Network Identity indicator			
IOUD D	ISUP Closed user group interlo	ck code Binary code indicator		
ISUP Parameter values	IAM:			
	Optional forward call indicator			
	Closed user group call indicator			
	Closed user group interlock code Network Identity mapped from XML networkIndicator			
	Binary code mapped from XML cugInterlockBinaryCode			
SIP Parameter values	INVITE:	d ITOTTI AIVIL CUGITILETIOCKBITIAI	yCode	
SIF Farailleter values		Content-Type: application/vnd.etsi.cug+xml		
	<pre><?xml version="1.0"</pre></pre>			
	cug			
	_	cator=any proper value		
		BinaryCode=any proper val	ue	
		icationIndicator		
	INVITE(IAM): no xml body pres			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
	100 Trying ←		, ,	
	, ,	Apply post test routine		

TP number	TP_407_002	Reference	[1], clause 7.2.1 [2], clause 7.5.10.1,	
			table 7.5.10.1.1,	
			table 7.5.10.1.3	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23 AND NOT PICS			
Test Purpose name	Mapping of the SIP XML CUG included in the optional Forwar		ser group call indicator	
Toot Burnoss	Ensure that on receipt of an IN		ontont Typo	
Test Purpose	application/vnd.etsi.cug+xml ar			
	sent. The XML 'cugCommunication's			
	indicator Closed user group ca			
ISUP Parameter values	IAM:	ii iiidicatoi as iiidicated iii table	5 0.5.7-1	
listr rarameter values	Optional forward call indicator			
	Closed user group call indicator= CUG_ind			
	Closed user group call indicator = COS_ind			
	Network Identity			
	Binary code			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndic	ator		
	cugInterlockE	BinaryCode		
		icationIndicator=CUG_COM_i	nd	
	INVITE(IAM): no xml body present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
	100 Trying ←		,	
		Apply post test routine		

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

VA	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	[1], clause 7.2.1 [2], clause 7.5.10.1,
			table 7.5.10.1.4
TSS reference	IMS-SS/CUG/		
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1		
Test Purpose name	Communication is released if the outgoing access	ne PSTN/ISDN network does n	ot support CUG, CUG without
Test Purpose	Ensure that on receipt of an INVITE request containing the Content-Type application/vnd.etsi.cug+xml and the 'cug' XML body the cugCommunicationIndicator set to '11', the communication is released with 403 (Forbidden) final response if the PSTN/ISDN network does not support CUG		
ISUP Parameter values			
SIP Parameter values	INVITE: Content-Type: application/vnd. xml version="1.0" cug networkIndic cugInterlockE cugCommun INVITE(IAM): no xml body pres</th <th>ator BinaryCode icationIndicator='11'</th> <th></th>	ator BinaryCode icationIndicator= '11'	
Comments			
Message flows	SIP NNI INVITE → 403 Forbidden ← ACK →		SIP-I

TP number	TP 407 004	Reference	[1], clause 7.2.1			
ir number	11 _407_004	Keierence	[2], clause 7.5.10.1,			
	11.40.00/01/0/		table 7.5.10.1.4			
TSS reference	IMS-SS/CUG/					
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1	10/2				
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	nd the 'cug' XML body the cug	CommunicationIndicator set to			
	'10', the communication is trea					
	support CUG. A Closed user g					
	encapsulated IAM					
ISUP Parameter values	cheapealated in this					
SIP Parameter values	INVITE:					
on rarameter values	Content-Type: application/vnd.etsi.cug+xml					
	xml version="1.0"</th					
		cug networkIndicator				
	cuginterlock					
		icationIndicator= '10'				
	INVITE(IAM): no xml body pres	sent				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE ->	→	INVITE (IAM)			
	100 Trying ←	1	, ,			
		Apply post test routine				
	7.46.7					

TP number	TP_407_005	Reference	[1], clause 7.2.1		
			[2], clause 7.5.10.1,		
			table 7.5.10.1.4		
TSS reference	IMS-SS/CUG/				
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1	0/2			
Test Purpose name	Communication is treated as ar	n ordinary call if the PSTN/ISD	N network does not support		
	CUG, Non-CUG call				
Test Purpose	Ensure that on receipt of an IN				
	application/vnd.etsi.cug+xml ar				
	'00', the communication is treat				
	support CUG. A Closed user gr	roup interlock code is not prese	ent in the sent INVITE with		
	encapsulated IAM				
ISUP Parameter values					
SIP Parameter values	INVITE:				
	Content-Type: application/vnd.etsi.cug+xml				
	xml version="1.0"</th				
	cug				
	networkIndica				
	cugInterlockE				
	_	cationIndicator='00'			
	INVITE(IAM): no xml body pres	sent			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

TP number	TP 407 006	Reference	[1], clause 7.3.1	
			[2], clause 7.5.10.2,	
			table 7.5.10.2.2	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23 AND NOT PICS	6.3.10/1		
Test Purpose name	Mapping of the ISUP closed us	sergroup interlocked to SIP XM	IL CUG element	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and a Closed user group			
	interlock code parameter is present, an INVITE request is sent. The Network Identity			
	indicator is mapped into the XML networkIndicator element, the Binary code is mapped into			
	the XML cugInterlockBinaryCode			
ISUP Parameter values	IAM:			
	Optional forward call indicator			
	Closed user group call indicator			
	Closed user group interlock code			
	Network Identity=any proper value			
	Binary code=any proper value			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator= mapped from Network Identity			
	cugInterlockBinaryCode= mapped from Binary code			
	cugCommunicationIndicator			
	INVITE(IAM): no xml body present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM) →	→	INVITE	
	, ,	←	100 Trying	
		Apply post test routine	, 0	

TP number	TP 407 007	Reference	[1], clause 7.3.1	
			[2], clause 7.5.10.2,	
			table 7.5.10.2.3	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23 AND NOT PICS	6.3.10/1		
Test Purpose name	Mapping of the ISUP closed us	sergroup interlocked to SIP XM	L CUG element	
Test Purpose	Ensure that on receipt of an IAM and an Optional forward call indicator is present set to			
	CUG_ind, an INVITE request i	s sent. The XML cugCommuni	cationIndicator is mapped	
	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 indicator			
	Closed user group call indicator=CUG_ind			
	Closed user group interlock code			
	Network Identity			
	Binary code			
SIP Parameter values	INVITE:			
	Content-Type: application/vnd.etsi.cug+xml			
	xml version="1.0"</th			
	cug			
	networkIndicator			
	cugInterlockBinaryCode			
	cugCommunicationIndicator=CUG_COM_ind			
	INVITE(IAM): no xml body present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
	Apply post test routine			

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

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

TP number	TP_407_008	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.10.2,	
			Q.735.1 [7], clause 1.5.2.4.2	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1			
Test Purpose name	Communication is released if the IMS network does not support CUG, CUG without			
Toot Burnoso	outgoing access			
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Optional forward call indicator Closed user group call indicator is set to closed user group call, outgoing access not allowed and the IMS network does not support the CUG supplementary service, a REL is sent and the Cause value is set to #29 Facility rejected the diagnostics indicating CUG without access			
ISUP Parameter values	IAM:			
	Optional forward call indicator			
	Closed user group call indicator=C UG call, outgoing access not allowed			
	Closed user group interlock code			
	Network Identity			
	Binary code			
	REL:			
	Cause indicator			
	Cause value=29			
	Diagnostics=3			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→		
	500 Server Internal Error (REL			
	ACK (RLC)	→		
	Apply post test routine			

TP number	TP_407_009	Reference		[1], clause 7.3.1
				[2], clauses 7.5.10.2,
				Q.735.1 [7], clause 1.5.2.4.2
TSS reference	IMS-SS/CUG/	<u>.</u>		
Selection criteria	PICS 6.3.2/23 AND PICS	6.3.10/1 AND PICS 6.3.	10/1	
Test Purpose name	Communication is treated as an ordinary call if the IMS network does not support CUG, CUG with outgoing access			
Test Purpose	Ensure that on receipt of an IAM and the Optional forward call indicator Closed user group call indicator is set to closed user group call, outgoing access allowed and the IMS network does not support the CUG supplementary service, the communication is treated as an ordinary call			
ISUP Parameter values	IAM: Optional forward call indicator Closed user group call indicator=C UG call, outgoing access allowed Closed user group interlock code Network Identity Binary code			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF		SIP NNI
	INVITE (IAM)	→	→	INVITE
			←	100 Trying
	Apply post test routine			

6.3.8 Call Completion Services

TP number	TP_408_001	Reference	[1], clause 7.7.10.3	
			[2], clause 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 CCNR possible inc	Mapping of CCNR possible indication in the ACM		
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM and a CCNR possible			
	indicator is present set to 'CCNR possible' a 180 Ringing is sent. A Call-Info header is			
	present, the URI is derived from the Called party number, the purpose parameter is set to			
	'call-completion', the m parameter is set to 'NR'			
ISUP Parameter values	IAM: Called party number			
	Number digits			
	ACM: Called party status			
	Subscriber free			
	CCNR possible indicator			
	CCNR possible			
SIP Parameter values	180: Call-Info: <sip:called digits="" number="" party="">;purpose=call-completion;m=NR</sip:called>			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE(IAM)	
	180 Ringing ←	←	180 Ringing(ACM)	
	Apply post test routine			

TP number	TP_408_002	Reference	[1], clause 7.7.10.3	
			[2], clause 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 indi	ication in the C	CPG	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated CPG Event indicator set to 'Alerting' and a CCNR possible indicator is present set to 'CCNR possible' a 180 Ringing is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'NR'			
ISUP Parameter values	IAM: Called party number Number digits ACM: Called party status No indication CPG: Event indicator Alerting CCNR possible indicator CCNR possible			
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>rty number dig</th><th>gits>;purpose=call-completion;m=NR</th></sip:called>	rty number dig	gits>;purpose=call-completion;m=NR	
Comments				
Message flows	SIP NNI MG	CF	SIP-I	
	INVITE →	→	INVITE(IAM)	
		←	183 Session Progress(ACM(no indication))	
	180 Ringing ←	←	180 Ringing(CPG(Alerting))	
	Apply post test routine			

TP number	TP_408_003	Reference	[1], clause 7.7.10.3 [2], clause 7.5.11.1,	
			table 7.5.11.1.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Mapping of CCBS possible ind	ication in the REL		
Test Purpose	Ensure that on receipt of a 486 Busy Here with encapsulated ISUP REL message Cause #17 and a CCBS possible indicator in the Diagnostic field is set to 'CCBS possible' a 486 Busy here is sent. A Call-Info header is present, the URI is derived from the Called party number, the purpose parameter is set to 'call-completion', the m parameter is set to 'BS'			
ISUP Parameter values	IAM: Called party number Number digits REL: Cause indicator Cause = 17 Diagnostic CCBS possible			
SIP Parameter values	486: Call-Info: <sip:called pa<="" th=""><th>arty number digits>;purpose=ca</th><th>ıll-completion;m=BS</th></sip:called>	arty number digits>;purpose=ca	ıll-completion;m=BS	
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE ->		INVITE(IAM)	
	486 Busy here ←	-	486 Busy Here(REL)	
	ACK →	-	ACK	
		Apply post test routine		

TP number	TP_408_004	Reference	[1], clause 7.7.10.3
			[2], clause 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 m parameter in the	e INVITE request URI into CCS	S parameter in the IAM
Test Purpose	Ensure that on receipt of an IN	IVITE request and a m paramet	ter set to 'BS' or 'NR' an
		sulated ISUP IAM is sent and th	ne CCSS call indicator
	parameter is present and the v	alue is set to 'CCSS call'	
ISUP Parameter values	IAM: CCSS call indicator		
	CCSS call		
SIP Parameter values	INVITE: <request uri="">;m=</request>	NR or ;m=BS	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	· -	INVITE(IAM)
	100 Trying ←	•	, ,
	Apply post test routine		

TP number	TP 408 005	Reference	[1], clause 7.7.10.3
			[2], clause 7.5.11.1,
			table 7.5.11.1.1
TSS reference	IMS-SS/CC/	•	•
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24	
Test Purpose name	Mapping of Call-Info h	eader in the INVITE into CCS	S parameter in the IAM
Test Purpose			Call-Info header is present the purpose
			meter set to 'BS' or 'NR' an IAM is sent
	and the CCSS call ind	icator parameter is present ar	nd the value is set to 'CCSS call'
ISUP Parameter values	IAM: CCSS call indic	cator	
	CCSS call		
SIP Parameter values	INVITE: <request th="" u<=""><th>IRI></th><th></th></request>	IRI>	
	Call-Info: <s< th=""><th>sip:Called party number digits</th><th>>;purpose=call-completion; m=BS or</th></s<>	sip:Called party number digits	>;purpose=call-completion; m=BS or
	NR		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→	→ INVITE(IAM)
	100 Trying	←	` ,
	Apply post test routine		

TP number	TP_408_006	Reference	[1], clause 7.7.10.3	
			[2], clause 7.5.11.1, table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/24		
Test Purpose name	Invocation of CCBS in the I-I	MGCF m parameter in S	Start line	
Test Purpose			Request URI contains the m	
	SCCP UDT or XUDT is sent	containing a TC-Begin	ns the value 'call-completion', an M3UA REQUEST invoke Data field. The derived from the To header, the	
	CallingPartyNumber is derive 'TRUE'		er and the RetainSupported is set to	
TCAP Parameter values	,	lerived from the To head derived from the P-Asse		
SIP Parameter values	SUBSCRIBE: <request uri<br="">Event: call-cor</request>	•		
Comments		•		
Message flows	SIP NNI	MGCF	M3UA	
	SUBSCRIBE →	→	DATA (SCCP (TC-Begin))	
	202 Accepted ←			
	Apply post test routine			

TP number	TP 408 007	Reference	[1], clause 7.7.10.3	
Ti mamber	11 _ 100_007	Troision of	[2], clause 7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/		table 7.5.11.1.2	
		24		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	Invocation of CCBS in the I-MG			
Test Purpose	Ensure that on receipt of a SUE			
	'call-completion' and a Call-Info	header with purpose paramet	ter ser to call-completion and	
	m parameter set to 'BS', an M3	UA SCCP UDT or XUDT is se	nt containing a TC-Begin	
	REQUEST invoke Data field. T	he TC-Begin REQUEST invok	e CalledPartyNumber is	
	derived from the To header, the	e CallingPartyNumber is derive	ed from the From header and	
	the RetainSupported is set to '7			
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	CalledPartyNumber derived from the To header			
	CallingPartyNumber derived from the P-Asserted-Identity header			
	RetainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri=""></request>			
SIF Farailleter values	•	lation		
	Event: call-comp		naca-all commistion, m-DC	
	Call-Inio: <sip:ca< th=""><th>alling party number digits>;pur</th><th>pose=call-completion; m=B5</th></sip:ca<>	alling party number digits>;pur	pose=call-completion; m=B5	
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	SUBSCRIBE →	→	DATA (SCCP (TC-Begin))	
	202 Accepted ←			
	·	Apply post test routine		

TP number	TP 408 008	Reference	[1], clause 7.7.10.3	
			[2], clause7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Invocation of CCNR in the I-MC	GCF m parameter in Start line		
Test Purpose	Ensure that on receipt of a SUB parameter set to 'NR' and Ever			
	SCCP UDT or XUDT is sent co			
	The TC-Begin REQUEST invol			
	CallingPartyNumber is derived			
	'TRUĔ'			
TCAP Parameter values	TC Begin			
	CCNR REQUEST invoke			
	CalledPartyNumber derived from the To header			
	CallingPartyNumber derived from the P-Asserted-Identity header			
	RetainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR		
	Event: call-completion			
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	SUBSCRIBE →	→	DATA (SCCP (TC-Begin))	
	202 Accepted ←			
	Apply post test routine			

TP number	TP 408 009	Reference	[1], clause 7.7.10.3	
	11 _ 100_000	Troi or or or	[2], clause 7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/	<u> </u>	1.0.11.1.2	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Invocation of CCNR in the I-MG	GCF m parameter in Call-Info h	eader	
Test Purpose	Ensure that on receipt of a SUE	SSCRIBE and the Event heade	er field contains the value	
-	'call-completion' and a Call-Info	header with purpose paramet	er ser to call-completion and	
	m parameter set to 'NR', an M3			
	REQUEST invoke Data field. T	he TC-Begin REQUEST invok	e CalledPartyNumber is	
	derived from the To header, the			
	the RetainSupported is set to '7			
TCAP Parameter values	TC Begin			
	CČNR REQUEST invoke			
	CalledPartyNumber derived from the To header			
	CallingPartyNumber derived from the P-Asserted-Identity header			
	RetainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri=""></request>			
	Event: call-comp	letion		
	Call-Info: <sip:ca< th=""><th>alling party number digits>;pur</th><th>oose=call-completion; m=NR</th></sip:ca<>	alling party number digits>;pur	oose=call-completion; m=NR	
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	SUBSCRIBE →	→	DATA (SCCP (TC-Begin))	
	202 Accepted ←			
	Apply post test routine			

TP number	TP 408 010	Reference	[1], clause 7.7.10.3	
			[2], clause7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/		•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=BS paramete	er in the Request line and PIDF	basic status "closed" is	
-	interworked into CCBS SUSPE	ND		
Test Purpose	Ensure that on receipt of a PUI	BLISH request and a m parame	eter is present in the Request	
	line is set to 'BS' the Event hea	der field contains the value 'pro	esence', and a PIDF XML	
	MIME body is present the pres	ence status set to 'closed', an I	M3UA SCCP UDT or XUDT is	
	sent containing a TC-Cont CCE	3S SUSPEND Data field		
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	d		
Comments	Note the XML semantic is sche	ematically the alias is not consi	dered	
Message flows	SIP NNI	MGCF	M3UA	
	Invoke a successful CCBS request and remote user is now free			
	PUBLISH →	· →	DATA (SCCP (TC-Cont))	
	200 OK (PUBLISH) ←		, , , , , , , , , , , , , , , , , , , ,	
	, , ,	Apply post test routine		

TP number	TP 408 011	Reference	[1], clause 7.7.10.3		
			[2], clause 7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=BS paramete interworked into CCBS SUSPE		basic status "closed" is		
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value		
-	'presence' and a Call-Info head				
	parameter set to 'BS' and a PID	OF XML MIME body is present	the presence status set to		
	'closed', an M3UA SCCP UDT	or XUDT is sent containing a T	C-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"</th <th>encoding="UTF-8"?></th> <th></th>	encoding="UTF-8"?>			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>close</basic>	- ,			
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	SIP NNI	MGCF	M3UA		
	Invoke a successful CCBS request and remote user is now free				
	PUBLISH → DATA (SCCP (TC-Cont))				
	200 OK (PUBLISH) ←				
	, , ,	Apply post test routine			

TP number	TP 408 012	Reference	[1], clause 7.7.10.3	
			[2], clause 7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/		-	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=BS paramete	er in the Request line and PIDF	basic status "open" is	
-	interworked into CCBS RESUM	ΛΕ ·	•	
Test Purpose	Ensure that on receipt of a PUI	BLISH request and a m parame	eter is present in the Request	
	line is set to 'BS' the Event hea	der field contains the value 'pro	esence' and a PIDF XML	
	MIME body is present the present	ence status set to 'open', an M	3UA SCCP UDT or XUDT is	
	sent containing a TC-Cont CCE	BS RESUME Data field		
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	BS		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche	matically the alias is not consideration	dered	
Message flows	SIP NNI	MGCF	M3UA	
	Successful CCBS reques	t and remote user is free orig	ginating user suspended	
	PUBLISH →	→	DATA (SCCP (TC-Cont))	
	200 OK (PUBLISH) ←		. , , , , , , , , , , , , , , , , , , ,	
	, ,	Apply post test routine		

TP number	TP 408 013	Reference	[1], clause 7.7.10.3		
			[2], clause 7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=BS paramete interworked into CCBS RESUM		basic status "open" is		
Test Purpose	Ensure that on receipt of a PU				
	'presence', a Call-Info header v				
	parameter set to 'BS' and a PID				
	open', an M3UA SCCP UDT of	r XUDT is sent containing a TC	-Cont CCBS RESUME Data		
	field				
TCAP Parameter values	TC-Cont: CCBS RESUME				
SIP Parameter values	PUBLISH: <request uri=""></request>				
	Event: presence				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
	Content-Type: application/pidf+xml				
	xml version="1.0"</th <th>encoding="UTF-8"?></th> <th></th>	encoding="UTF-8"?>			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>open</basic>				
Comments	Note the XML semantic is schematically the alias is not considered				
Message flows	SIP NNI	MGCF	M3UA		
	Successful CCBS request and remote user is free originating user suspended				
	PUBLISH → DATA (SCCP (TC-Cont))				
	200 OK (PUBLISH) ←				
	,	Apply post test routine			

TP number	TP 408 014	Reference	[1], clause 7.7.10.3	
			[2], clause 7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR parameter	er in the Request line and PIDF	basic status "closed" is	
	interworked into CCBS SUSPE	ND		
Test Purpose	Ensure that on receipt of a PU	BLISH request and a m parame	eter is present in the Request	
	line is set to 'NR' the Event hea			
	MIME body is present the present	ence status set to 'closed', an l	M3UA SCCP UDT or XUDT is	
	sent containing a TC-Cont CCE	3S SUSPEND Data field		
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	NR		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	d		
Comments	Note the XML semantic is sche	matically the alias is not consi	dered	
Message flows	SIP NNI	MGCF	M3UA	
	Invoke a successful CCNR request and remote user is now free			
	PUBLISH →	· →	DATA (SCCP (TC-Cont))	
	200 OK (PUBLISH) ←		, , , , , , , , , , , , , , , , , , , ,	
	,	Apply post test routine		

TP number	TP 408 015	Reference	[1], clause 7.7.10.3	
			[2], clause 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 paramete interworked into CCBS SUSPE		basic status "closed" is	
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value	
	'presence', a Call-Info header v			
	parameter set to 'NR' and a PII	OF XML MIME body is present	the presence status set to	
	'closed', an M3UA SCCP UDT	or XUDT is sent containing a T	C-Cont CCBS SUSPEND	
	Data field			
TCAP Parameter values	TC-Cont: CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
	<pre><basic>closed</basic></pre>			
Comments	Note the XML semantic is sche	matically the alias is not consid	dered	
Message flows	SIP NNI	MGCF	M3UA	
	Invoke a successful CCNR request and remote user is now free			
	PUBLISH → DATA (SCCP (TC-Cont))			
	200 OK (PUBLISH) ←			
	Apply post test routine			

TP number	TP 408 016	Reference	[1], clause 7.7.10.3	
			[2], clause 7.5.11.1,	
			table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	PUBLISH with m=NR parameter	er in the Request line and PIDF	basic status "open" is	
	interworked into CCBS RESUM	ΛΕ		
Test Purpose	Ensure that on receipt of a PU	BLISH request and a m parame	eter is present in the Request	
	line is set to 'NR' the Event hea			
	MIME body is present the present	ence status set to 'open', an M	3UA SCCP UDT or XUDT is	
	sent containing a TC-Cont CCE	BS RESUME Data field		
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">; m=</request>	NR		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche	ematically the alias is not consideration	dered	
Message flows	SIP NNI	MGCF	M3UA	
	Successful CCNR reques	t and remote user is free orig	ginating user suspended	
	PUBLISH →	→	DATA (SCCP (TC-Cont))	
	200 OK (PUBLISH) ←		, , , , , , , , , , , , , , , , , , , ,	
	,	Apply post test routine		

TP number	TP 408 017	Reference	[1], clause 7.7.10.3	
			[2], clause 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 paramete interworked into CCBS RESUM		basic status "open" is	
Test Purpose	Ensure that on receipt of a PUE	BLISH request and Event head	er field contains the value	
-	'presence' a Call-Info header w			
	parameter set to 'NR' and a PII	OF XML MIME body is present	the presence status set to	
	open', an M3UA SCCP UDT of			
	field			
TCAP Parameter values	TC-Cont: CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri=""></request>			
	Event: presence			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>			
	Content-Type: application/pidf+xml			
	xml version="1.0"</th <th>encoding="UTF-8"?></th> <th></th>	encoding="UTF-8"?>		
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche	•		
Message flows	SIP NNI	MGCF	M3UA	
	Successful CCNR request and remote user is free originating user suspended			
	PUBLISH → DATA (SCCP (TC-Cont))			
	200 OK (PUBLISH)			
	Apply post test routine			

TP number	TP 408 018	Reference	[1], clause 7.7.10.3		
			[2], clause 7.5.11.1,		
			table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/24			
Test Purpose name	SUBSCRIBE with m=BS and	Expires header set to '0' is inter	worked into CCBS CANCEL		
Test Purpose		BSCRIBE request and a m par			
		Call-Info header with purpose			
		set to 'BS' and Event header fie			
	completion' and an Expires he	ader set to '0', an M3UA SCCF	UDT or XUDT is sent		
	containing a TC-End CCBS C	ANCEL Data field			
TCAP Parameter values	TC-End: CCBS CANCEL				
SIP Parameter values	SUBSCRIBE: <request uri="">; m=BS</request>				
	Event:call-comp	Event:call-completion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
	Expires: 0				
Comments					
Message flows	SIP NNI	MGCF	M3UA		
	A CCBS is successfully invoked				
	SUBSCRIBE -	· · ·	DATA (SCCP (TC-End))		
	202 Accepted	=	, , , , , , , , , , , , , , , , , , , ,		
	Apply post test routine				

TP number	TP_408_019	Reference	[1], clause 7.7.10.3	
			[2], clause 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 SUE	BSCRIBE request and a m para	ameter is present in the	
	Request line is set to 'NR' or a	Call-Info header with purpose	parameter ser to call-	
	completion and m parameter se	et to 'BS' and Event header fiel	d contains the value 'call-	
	completion' and an Expires hea	ader set to '0', an M3UA SCCP	UDT or XUDT is sent	
	containing a TC-End CCBS CA	NCEL 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	SIP NNI	MGCF	M3UA	
	A CCNR is successfully invoked			
	SUBSCRIBE →	→	DATA (SCCP (TC-End))	
	202 Accepted		. , , , , , , , , , , , , , , , , , , ,	
		Apply post test routine		

TP number	TP 408 020	Reference	[1], clause 7.7.10.3		
		T C C C C C C C C C C C C C C C C C C C	[2], clause 7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/		[abio 7.0.11.1.0		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	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 an M	3UA UDT or XUDT containing	a TC-Cont CCBS REQUEST		
		ne RetainSupported element is			
	request is sent and the cc-stat	e body is set to 'queued' the co	-service-retention body is set		
	to 'true'				
TCAP Parameter values	TC-Cont: CCBS REQUEST (return result)			
	RetainSupporte	d=TRUE			
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
	cc-service-retention: true				
Comments					
Message flows	SIP NNI	MGCF	M3UA		
	SUBSCRIBE -	→	(X)UDT (TC-Begin)		
	202 Accepted	•			
	NOTIFY	·	DATA (SCCP (TC-Cont))		
	200 OK (NOTIFY) →	•	. , , , , , , , , , , , , , , , , , , ,		
	Apply post test routine				

TP number	TP_408_021	Reference	[1], clause 7.7.10.3		
			[2], clause 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-Cont CCBS REQUEST (renot present	eturn result) is interworked into	NOTIFY cc-service-retention		
Test Purpose	Ensure that on receipt of an M3UA UDT or XUDT containing a TC-Cont CCBS REQUEST (return result) Data field and the RetainSupported element is set to FALSE, a NOTIFY request is sent and the cc-state body is set to 'queued' a cc-service-retention body is not present				
TCAP Parameter values	TC-Cont: CCBS REQUEST (RetainSupporte	•			
SIP Parameter values	NOTIFY: Event: call-completion Content-Type: application/call-completion				
	cc-state: queued				
Comments	·				
Message flows	SIP NNI	MGCF	M3UA		
	SUBSCRIBE =	→	DATA (SCCP (TC-Begin))		
	202 Accepted	•			
	NOTIFY 200 OK (NOTIFY)		DATA (SCCP (TC-Cont))		
	. ,	Apply post test routine			

TP number	TP_408_022	Reference	[1], clause 7.7.10.3	
			[2], clause 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		ortTermDenial received	I, 480 Temporarily Unavailable	
	response to SUBCRIBE			
Test Purpose			taining a TC-End CCBS REQUEST	
			tTermDenial', a 480 Temporarily	
	Unavailable final response to t	he SUBCRIBE CCBS re	equest is sent	
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	TC-End CCBS REQUEST (Return error)			
	ShortTermDe	enial		
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=BS		
	Event: call-comp	oletion		
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	SUBCRIBE	→	→ DATA (SCCP (TC-Begin))	
	480 Temporarily Unavailable	←	← DATA (SCCP (TC-End))	
		Apply post test rou	` ` ` ' ' '	

TP number	TP_408_023	Reference	[1], clause 7.7.10.3 [2], clause 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/				
Test Purpose name	CCBS Return error TC-End Lo response to SUBCRIBE	ngTermDenial received	, 403 Forbidden unavailable		
Test Purpose	(Return error) component in th	Ensure that on receipt of an M3UA UDT or XUDT containing a TC-End CCBS REQUEST (Return error) component in the Data field set to 'LongTermDenial', a 403 Forbidden final response to the SUBCRIBE CCBS request is sent			
TCAP Parameter values	TC Begin CCBS REQUEST invoke TC-End CCBS REQUEST (Re LongTermDe	•			
SIP Parameter values	SUBSCRIBE: <request uri="">, Event: call-comp</request>				
Comments					
Message flows	SIP NNI	MGCF	M3UA		
	SUBSCRIBE	→	→ DATA (SCCP (TC-Begin))		
	403 Forbidden	-	← DATA (SCCP (TC-End))		
	Apply post test routine				

TP number	TP_408_024	Reference	[1], clause 7.7.10.3 [2], clause 7.5.11.1,		
			table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	CCNR Return error TC-End SI response to SUBCRIBE	hortTermDenial re	ceived, 480 Temporarily Unavailable		
Test Purpose	(Return error) component in th	Ensure that on receipt of an M3UA UDT or XUDT containing a TC-End CCNR REQUEST (Return error) component in the Data field set to 'ShortTermDenial', a 480 Temporarily Unavailable final response to the SUBCRIBE CCNR request is sent			
TCAP Parameter values	TC Begin CCNR REQUEST invoke TC-End CCNR REQUEST (Re	,			
SIP Parameter values	SUBSCRIBE: <request uri="">, Event: call-comp</request>				
Comments					
Message flows	SIP NNI	MC	GCF M3UA		
	SUBCRIBE	→	→ DATA (SCCP (TC-Begin))		
	480 Temporarily Unavailable	←	← DATA (SCCP (TC-End))		
		Apply post tes	st routine "		

TP number	TP_408_025	Reference	[1], clause 7.7.10.3		
			[2], clause 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.	-			
Test Purpose name	CCNR Return error TC-End response to SUBCRIBE	LongTermDenial recei	ved, 403 Forbidden unavailable		
Test Purpose			a TC-End CCNR REQUEST (Return		
	error) component in the Data	a field set to 'LongTerm	Denial', a 403 Forbidden final response		
	to the SUBCRIBE CCNR rec	juest is sent			
TCAP Parameter values	TC Begin				
	CCNR REQUEST invoke				
	TC-End CCNR REQUEST (Return error)				
	LongTermDenial				
SIP Parameter values	SUBSCRIBE: <request th="" uri<=""><th>>, m=NR</th><th></th></request>	>, m=NR			
	Event: call-cor	npletion			
Comments		•			
Message flows	SIP NNI	MGC	F M3UA		
	SUBSCRIBE	→	→ DATA (SCCP (TC-Begin))		
	403 Forbidden	←	← DATA (SCCP (TC-End))		
	Apply post test routine				

TP number	TP 408 026	Reference	[1], clause 7.7.10.3	
			[2], clause 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 after CCBS wa	as successfully invoked	
Test Purpose			ning a TC-End CCBS CANCEL after a	
			est is sent containing a m parameter set	
			ate header set to 'terminated ' and the	
	subexp-params reason	set to 'noresource'		
TCAP Parameter values	TC-End			
	CCBS CANCEL			
SIP Parameter values	NOTIFY: <request th="" ur<=""><th>RI></th><th></th></request>	RI>		
	Event:call-cor	mpletion		
	Subscription-	State: terminated; reasor	n=noresource	
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	CCBS request successfully invoked			
	NOTIFY ← DATA (SCCP (TC-End))			
	200 OK NOTIFY	→	, , , , , , , , , , , , , , , , , , , ,	
	Apply post test routine			

TP number	TP_408_027	Reference	[1], clause 7.7.10.3 [2], clause 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		ived after CCNR was successfu		
Test Purpose		13UA SCCP containing a TC-Er		
		ted, a NOTIFY request is sent o		
		d a Subscription-State header s	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-completi	on		
	Subscription-State: terminated; reason=noresource			
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	CCNR request successfully invoked			
	NOTIFY	£	DATA (SCCP (TC-End))	
	200 OK NOTIFY	•	, , , , , , , , , , , , , , , , , , , ,	
		Apply post test routine		

TP number	TP_408_028	Reference	[1], clause 7.7.10.3	
			[2], clause 7.5.11.1,	
			table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Interworking of Remote user from	ee indication at the I-MGCF		
Test Purpose	Ensure that on receipt of an M3			
	FREE invoke component in the	Data field, a NOTIFY request	is sent and a cc-state body is	
	present set to 'ready'			
TCAP Parameter values	TC-Cont			
	CCBS REMOTE USER FR	EE		
SIP Parameter values	NOTIFY: Event: call-completion	on		
	Content-Type: application/call-completion			
	cc-state: ready			
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	CCNR request successfully invoked			
	NOTIFY	-	DATA (SCCP (TC-Cont))	
	200 OK (NOTIFY) →		, , ,	
	Apply post test routine			

TP number	TP 408 029	Reference	[1], clause 7.7.10		
Ti Tidiliboi	11 _100_020	Tto to to to to	[2], clause 7.5.11.2,		
			table 7.5.11.2.1		
			table 7.5.11.2.1		
TSS reference	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 a 180 into	the CCNR possible indicator in the ACI		
Test Purpose	Ensure that on receipt of	of a 180 Ringing provisional	response and a Call-Info header is		
	present set to the URI	of the terminating user and a	purpose parameter set to		
			Ringing with encapsulated ISUP ACM		
			present set to 'CCNR possible'		
ISUP Parameter values	IAM: Called party nur	nber			
	Number digits				
	ACM: Called party stat	ACM: Called party status			
	Subscriber fr				
	CCNR possible	indicator			
	CCNR possible				
SIP Parameter values	- '	alled party number digits>;p	urpose=call-completion		
Comments			•		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE(IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
	100 1	Apply post test re			
		Apply post test i	outilic		

TP number	TP_408_030	Reference	[1], clause 7.7.10 [2], clause 7.5.11.2,	
T00	13.40.00/00/		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	apped into REL cause 17 and 0	CCBS possible	
Test Purpose	Ensure that on receipt of a 486 Busy Here and a Call-Info header is present set to the URI of the terminating user and a purpose parameter set to 'call-completion' and m parameter ser to 'BS', a 486 Busy Here with encapsulated ISUP REL message is sent and the Cause value is set to 17 or 34 the Diagnostics is set to 'CCBS possible'			
ISUP Parameter values	REL: Cause indicator Cause=17 or 34 Diagnostics= CCBS	possible		
SIP Parameter values	<u> </u>	arty number digits>;purpose=ca	all-completion	
Comments		3 /1 /	•	
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE(IAM) →	→	INVITE	
	486 Busy Here (REL) ←	←	486 Busy Here	
	ACK →	→	ACK	
		Apply post test routine	-	

TP number	TP 408 031	Reference	[1], clause 7.7.10	
			[2], clause 7.5.11.2,	
			table 7.5.11.2.1	
TSS reference	IMS-SS/CC/		•	
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24		
Test Purpose name	CCSS call indicator in INVITE	IAM is mapped into the m pa	rameter in the Request line in the sent	
Test Purpose	Ensure that on receipt of an INVITE request with encapsulated ISUP IAM and a CCSS call indicator parameter is present set to 'CCSS call', an INVITE request is sent and the			
	Request line contains	a m parameter set to 'NR' or	'BS'	
ISUP Parameter values	IAM: CCSS call indic	cator		
	CCSS call			
SIP Parameter values	INVITE: <request u<br="">Call-Info: <s NR</s </request>		s>;purpose=call-completion; m=BS or	
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE(IAM)	→	→ INVITE	
	·		100 Trying	
	Apply post test routine			

TP number	TP 408 032	Reference	[1], clause 7.7.10		
			[2], clause 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 SUBC	RIBE request invokes CCBS		
Test Purpose	Ensure that on receipt of an M3	SUA SCCP containing a TC-	Begin CCBS REQUEST		
	(invoke) component, a SUBSCI				
	Identity header are derived fron				
	is derived from the CCBS REQ				
	'call-completion' the Request lin	ne contains the m parameter	set to 'BS'		
TCAP Parameter values	TC-Begin				
	CCBS REQUEST invoke	CCBS REQUEST invoke			
	CalledPartyNumber	CalledPartyNumber			
	CallingPartyNumber				
	retainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>				
		rom the CCBS REQUEST C			
	To: <derived calledpartynumber="" ccbs="" from="" request="" the=""> P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived></derived>				
	P-Asserted-Iden				
		CallingPartyNumber	· >		
	Event: call-compl				
	Expires: <any value=""></any>				
Comments					
Message flows	M3UA	MGCF	SIP NNI		
	DATA (SCCP (TC-Begin))	-	SUBSCRIBE		
	← 202 Accepted				
	Apply post test routine				

TP number	TP 408 033	Reference	[1], clause 7.7.10	
Transo.	11 _100_000	TKO GO GO GO	[2], clause 7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/	l	1.0	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-Begin CCNR REQUEST (in	voke) is mapped into SUBCR	BE request invokes CCNR	
Test Purpose	Ensure that on receipt of an M3			
-	(invoke) component, a SUBSCI	RIBE request is sent and the F	rom and the P-Asserted-	
	Identity header are derived fron	n the CCNR REQUEST Calling	gPartyNumber the To header	
	is derived from the CCNR REQ			
	'call-completion' the Request lir	ne contains the m parameter so	et to 'NR'	
TCAP Parameter values	TC-Begin			
	CCNR REQUEST invoke			
	CalledPartyNumber			
	CallingPartyNumber			
	retainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR		
	From: <derived callingpartynumber="" ccnr="" from="" request="" the=""></derived>			
	To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>			
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>			
	CallingPartyNumber >			
	Event: call-completion Expires: <any value=""></any>			
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin)) →	→	SUBSCRIBE	
		←	202 Accepted	
		Apply post test routine		

TP number	TP_408_034	Reference	[1], clause 7.7.10	
			[2], clause 7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-Cont CCBS SUSPEND is in	nterworked into PUBLISH with	m=BS and PIDF basic status	
-	"closed"			
Test Purpose	CCBS or CCNR is invoked and	the remote user is free. Ensur	re that on receipt of an M3UA	
	SCCP TC-Cont CCBS SUSPE	ND invoke component, a PUBI	_ISH request is sent	
	containing the m parameter in t	he Request URI set to 'BS' or	'NR' the Event header set to	
	'presence' and a PIDF XML MII	ME body is present the presen	ce status set to 'closed'	
TCAP Parameter values	TC-Cont			
	CCBS SUSPEND			
SIP Parameter values	PUBLISH: <request uri="">; m=I</request>	BS or ;m=NR		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>close</basic>	- ,		
Comments	Note the XML semantic is schematically the alias is not considered			
Message flows	M3UA	MGCF	SIP NNI	
	Invoke a successful CCBS/CCNR request and remote user is now free			
	DATA (SCCP (TC-Cont))	→	PUBLISH	
		←	200 OK (PUBLISH)	
		Apply post test routine		

TP number	TP 408 035	Reference	[1], clause 7.7.10	
	11 _100_000	11010101100	[2], clause 7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/		1.0.11.2.2	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-Cont CCBS RESUME is int		m=NR and PIDF basic status	
	"open"	_		
Test Purpose	CCBS or CCNR is invoked and	I the remote user is free the o	riginating user is suspended.	
	Ensure that on receipt of an M3	BUA SCCP TC-Cont CCBS SI	JSPEND invoke component, a	
	PUBLISH request is sent conta	ining the m parameter in the l	Request URI set to 'BS' or 'NR'	
	the Event header set to 'preser	nce' and a PIDF XML MIME b	ody is present the presence	
	status set to 'open'			
TCAP Parameter values	TC-Cont			
	CCBS RESUME			
SIP Parameter values	PUBLISH: <request uri="">;m='</request>	BS' or ;m=NR		
	Event: presence			
	Content-Type: application/pidf+xml			
	xml version="1.0" encoding="UTF-8"?			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<status></status>			
	<basic>open</basic>			
Comments	Note the XML semantic is sche	ematically the alias is not cons	idered	
Message flows	M3UA	MGCF	SIP NNI	
	Successful CCBS/CCNR request and originating user suspended			
	DATA (SCCP (TC-Cont))	_	PUBLISH	
	, , , , , , , , , , , , , , , , , , , ,	←	200 OK (PUBLISH)	
		Apply post test routine	,	

TP number	TP_408_036	Reference	[1], clause 7.7.10	
			[2], clause 7.5.11.2,	
			table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-End CCBS CANCEL is inte header set to '0'	rworked into SUBSCRIBE with	m=BS or NR and Expires	
Test Purpose	A CCBS or CCNR is successfu	lly invoked. Ensure that on rec	eipt of a UDT or XUDT	
	containing an M3UA SCCP TC-			
	sent and a m parameter is pres			
	field is set to 'call-completion' a	nd the Expires 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			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>			
	or m=NR			
	Expires: 0			
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	A CCBS or CCNR is successfully invoked			
	DATA (SCCP (TC-End))	→	SUBSCRIBE	
		←	202 Accepted	
	Apply post test routine			

TP number	TP 408 037	Reference	[1], clause 7.7.10		
			[2], clause 7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	A NOTIFY cc-state 'queued' a	nd cc-service-retention 'true' is	mapped into a TC-Cont		
	CCBS REQUEST (return resu	lt) retain supported			
Test Purpose		TIFY request the Event header			
	the cc-state body is set to 'que	ued' and the cc-service-retention	on body is set to 'true', an		
	M3UA SCCP TC-Cont is sent	and the CCBS REQUEST (retu	rn result) component is		
	present the RetainSupported e	element is set to 'TRUE'			
TCAP Parameter values	TC-Cont: CCBS REQUEST (I	eturn result)			
	RetainSupported	d=TRUE			
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
	cc-service-reten	tion: true			
Comments					
Message flows	M3UA	MGCF	SIP NNI		
	CCBS request already invoked				
	DATA (SCCP (TC-Cont))	+ • • •	NOTIFY		
	→ 200 OK (NOTIFY)				
	Apply post test routine				

TP number	TP_408_038	Reference	[1], clause 7.7.10 [2], clause 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	· · · · · · · · · · · · · · · · · · ·	nd no cc-service-retention body turn result) retain not supported			
Test Purpose	Ensure that on receipt of a NOTIFY request the Event header field is set to 'call-completion' the cc-state body is set to 'queued' and the cc-service-retention body is not present, an M3UA SCCP TC-Cont is sent and the CCBS REQUEST (return result) component is present the RetainSupported element is set to 'FALSE'				
TCAP Parameter values	TC-Cont: CCBS REQUEST (return result) RetainSupported=FALSE				
SIP Parameter values	NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: gueued				
Comments					
Message flows	M3UA	MGCF	SIP NNI		
	CCBS request already invoked				
	DATA (SCCP (TC-Cont))	+	NOTIFY		
	→ 200 OK (NOTIFY)				
	Apply post test routine				

TP number	TP 408 039	Reference	[1], clause 7.7.10		
			[2], clause 7.5.11.2,		
			table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	A NOTIFY cc-state 'queued' ar CCNR REQUEST (return resu		mapped into a TC-Cont		
Test Purpose	Ensure that on receipt of a NO				
	the cc-state body is set to 'que				
	M3UA SCCP TC-Cont is sent a		ırn result) component is		
	present the RetainSupported e	element is set to 'TRUE'			
TCAP Parameter values	TC-Cont: CCNR REQUEST (i	return result)			
	RetainSupported=TRUE				
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
	cc-service-reten	tion: true			
Comments					
Message flows	M3UA	MGCF	SIP NNI		
	CCNR request already invoked				
	DATA (SCCP (TC-Cont))	+	NOTIFY		
	→ 200 OK (NOTIFY)				
	Apply post test routine				

TP_408_040	Reference	[1], clause 7.7.10	
		[2], clause 7.5.11.2,	
		table 7.5.11.2.3	
IMS-SS/CC/	•		
PICS 6.3.1/2 AND PICS 6.3.2	/24		
A NOTIFY cc-state 'queued' a	nd cc-service-retention 'true' is	mapped into a TC-Cont	
CCNR REQUEST (return resu	lt) retain not supported		
Ensure that on receipt of a NC	TIFY request the Event header	field is set to 'call-completion'	
the cc-state body is set to 'que	eued' and the cc-service-retention	on body is not present, an	
M3UA SCCP TC-Cont is sent	and the CCNR REQUEST (retu	urn result) component is	
present the RetainSupported	element is set to 'FALSE'		
TC-Cont: CCNR REQUEST (return result)			
RetainSupported=FALSE			
NOTIFY: Event: call-completion			
Content-Type: application/call-completion			
cc-state: queued			
M3UA	MGCF	SIP NNI	
CCNR request already invoked			
DATA (SCCP (TC-Cont))	+ • • •	NOTIFY	
, , , , , , , , , , , , , , , , , , , ,	→	200 OK (NOTIFY)	
,			
	IMS-SS/CC/ PICS 6.3.1/2 AND PICS 6.3.2/ A NOTIFY cc-state 'queued' at CCNR REQUEST (return result that on receipt of a NOTIFY cc-state body is set to 'queue' M3UA SCCP TC-Cont is sent present the RetainSupported of TC-Cont: CCNR REQUEST (RetainSupported NOTIFY: Event: call-completic Content-Type: applicate content-Type: applicate of M3UA	IMS-SS/CC/ PICS 6.3.1/2 AND PICS 6.3.2/24 A NOTIFY cc-state 'queued' and cc-service-retention 'true' is CCNR REQUEST (return result) retain not supported Ensure that on receipt of a NOTIFY request the Event header the cc-state body is set to 'queued' and the cc-service-retention M3UA SCCP TC-Cont is sent and the CCNR REQUEST (return resent the RetainSupported element is set to 'FALSE' TC-Cont: CCNR REQUEST (return result) RetainSupported=FALSE NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: queued M3UA MGCF CCNR request already invoked DATA (SCCP (TC-Cont)) ←	

TP number	TP 408 041	Reference	[1], clause 7.7.10
	1 ==		[2], clause 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 48		
Test Purpose	Ensure that on receipt of a 480		
	requested, an M3UA SCCP TO	C-End CCBS REQUEST (Retu	ırn error) component
	containing the ShortTermDenia	al Element is sent	
TCAP Parameter values	TC-End CCBS REQUEST (Return error)		
	ShortTermDe	enial	
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=BS	
	Event: call-completion		
Comments			
Message flows	M3UA	MGCF	SIP NNI
_	DATA (SCCP (TC-Begin))	→ S	UBCRIBE
	DATA (SCCP (TC-End))	← 4	80 Temporarily Unavailable
	Apply post test routine		

TP number	TP 408 042	Reference	[1], clause 7.7.10	
	1. = =		[2], clause 7.5.11.2,	
			table 7.5.11.2.3	
TSS reference	IMS-SS/CC/	1		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24		
Test Purpose name	CCNR request unsuccessful 4	80 Temporarily Unavailable	e is received	
Test Purpose			inal response upon CCNR was	
	requested, an M3UA SCCP T0		Return error) component	
	containing the ShortTermDenia	al Element is sent		
TCAP Parameter values	TC-End CCNR REQUEST (Re	TC-End CCNR REQUEST (Return error)		
	ShortTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR		
	Event: call-completion			
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin))	→	SUBCRIBE	
	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	(480 Temporarily Unavailable	
	Apply post test routine			

TP number	TP_408_043	Reference	[1], clause 7.7.10	
			[2], clause7.5.11.2,	
			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			upon CCBS was requested, an	
	M3UA SCCP TC-End CCBS R	,	mponent containing the	
	LongTermDenial Element is se			
TCAP Parameter values	TC-End CCBS REQUEST (Return error)			
	LongTermDe	enial		
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=BS		
	Event: call-completion			
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin))	→	SUBCRIBE	
	DATA (SCCP (TC-End))	+	403 Forbidden	
	Apply post test routine			

TP number	TP_408_044	Reference	[1], clause 7.7.10	
			[2], clause 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 request unsuccessful 40	03 Forbidden is sent		
Test Purpose	Ensure that on receipt of a 403			
	M3UA SCCP TC-End CCNR R		onent containing the	
	LongTermDenial Element is se	nt		
TCAP Parameter values	TC-End CCNR REQUEST (Re	TC-End CCNR REQUEST (Return error)		
	LongTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR		
	Event: call-completion			
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin))	→ SI	JBCRIBE	
	DATA (SCCP (TC-End))	← 40	3 Forbidden	
	Apply post test routine			

TP number	TP 408 045	Reference	[1], clause 7.7.10
			[2], clause 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 invoked. NOTIFY with	State header field set to "term	inated" received TC-End is sent
Test Purpose	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params reason set to 'noresource' upon CCBS was successfully invoked, an M3UA SCCP TC-End message is sent containing the CCBS CANCEL component		
TCAP Parameter values	TC-End CCBS CANCEL		
SIP Parameter values	NOTIFY: <request uri=""></request>		
	Event:call-completion		
	Subscription-S	State: terminated; reason=nores	source
Comments			
Message flows	M3UA	MGCF	SIP NNI
	CCBS request successfully invoked		
	DATA (SCCP (TC-End))	+ +	NOTIFY
		→	200 OK NOTIFY
	Apply post test routine		

TP number	TP_408_046	Reference	[1], clause 7.7.10 [2], clause 7.5.11.2, table 7.5.11.2.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24			
Test Purpose name	CCNR invoked at the O-MGCF TC-End is sent	NOTIFY with State header fie	ld set to "terminated" received		
Test Purpose	Ensure that on receipt of a NOTIFY request the Subscription-State header is set to 'terminated' and the subexp-params reason set to 'noresource' upon CCNR was successfully invoked, an M3UA SCCP TC-End message is sent containing the CCBS CANCEL component				
TCAP Parameter values	TC-End CCBS CANCEL				
SIP Parameter values	NOTIFY: <request uri=""> Event:call-comp Subscription-Sta</request>	letion Ite: terminated; reason=noreso	urce		
Comments					
Message flows	M3UA	MGCF	SIP NNI		
	CCNR request successfully invoked				
	DATA (SCCP (TC-End))	+	NOTIFY		
		→	200 OK NOTIFY		
	Apply post test routine				

TP number	TP_408_047	Reference	[1], clause 7.7.10
			[2], clause 7.5.11.2,
			table 7.5.11.2.3
TSS reference	IMS-SS/CC/	<u> </u>	•
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/24	
Test Purpose name	Interworking of Remote	user free indication at the O-	MGCF
Test Purpose	Ensure that on receipt o	f a NOTIFY request the cc-st	ate body is set to 'ready' upon Call
-	completion was success	sfully invoked, an M3UA SCC	P TC-Cont message is sent
	containing the CCBS RE	EMOTE USER FREE compo	nent
TCAP Parameter values	TC-Cont		
	CCBS REMOTE US	ER FREE	
SIP Parameter values	NOTIFY: Event: call-co	mpletion	
	Content-Type	e: application/call-completion	
	cc-state: r	ready	
Comments			
Message flows	M3UA	MGCF	SIP NNI
	CCBS or CCNR request successfully invoked		
	DATA (SCCP (TC-Cont))) ←	← NOTIFY
			→ 200 OK (NOTIFY)
	Apply post test routine		

6.3.9 Communication Waiting (CW)

TP number	TP_409_001	Reference	[1], clause 7.2.1	
			[2], clause 7.5.12	
TSS reference	IMS-SS/CW/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8	3		
Test Purpose name	Mapping of Generic notification Alert-Info header	'call waiting' in a 180 Ringing	with encapsulated ACM into	
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated ACM the Called party status indicator is set to 'subscriber free' 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	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 180 (ACM): ern not present			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	180 Ringing ←	←	180 Ringing (ACM)	
		Apply post test routine		

TP number	TP 409 002	Reference	[1], clause 7.2.1	
i F ilulibei	17_409_002	Reference		
			[2], clause 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 notification Alert-Info header	Mapping of Generic notification 'call waiting' in a 180 Ringing with encapsulated CPG into Alert-Info header		
Test Purpose	Ensure that on receipt of a 180 Ringing with encapsulated 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 180 (ACM): ern not present			
Comments				
Message flows	SIP NNI INVITE 180 Ringing	MGCF → Apply post test routi	SIP-I → INVITE (IAM) ← 183 Session Progress (ACM) ← 180 Ringing (CPG) ne	

TP number	TP_409_003	Reference	[1], clause 7.3.1		
			[2], clause 7.5.12		
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	8			
Test Purpose name	Interworking of the Alert-Info he Ringing with encapsulated ACI		ic notification 'Call waiting' in a 180		
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', an180 Ringing with encapsulated 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 180 (ACM): ern not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) → INVITE				
	← 100 Trying				
	180 Ringing (ACM) ←	(180 Ringing		
	Apply post test routine				

TP number	TP_409_004	Reference	[1], clause 7.3.1	
			[2], clause 7.5.12	
TSS reference	IMS-SS/CW/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/8			
Test Purpose name	Interworking of the Alert-Info header in a 180 into Generic notification 'Call waiting' in a 180 Ringing with encapsulated CPG			
Test Purpose	Ensure that on receipt of a 180 Ringing and an Alert Info header is present the value is set to 'urn:alert:service:call-waiting', a 180 Ringing with encapsulated CPG is sent containing a Generic notification indication parameter set to 'Call is a waiting call'. The Event indicator is set to 'Alerting'			
ISUP Parameter values	CPG: Event indicator Alerting Generic notification Call is a waiting call			
SIP Parameter values	180: Alert-Info urn:alert:service:call-waiting 180 (ACM): ern not present			
Comments				
Message flows		MGCF →	SIP NNI → INVITE ← 100 Trying	
	180 Ringing (ACM) CPG Apply post test routine	T i/w2 expired ←	← 180 Ringing	

Annex A (informative): Bibliography

• 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)".

History

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