ETSITS 101 572-2 V1.2.1 (2014-07)



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-00110-2

Keywords

SIP, SIP-I, testing, TSS&TP

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from: http://www.etsi.org

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2014.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**TM and **LTE**TM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intelle	ectual Property Rights	5
Forew	vord	5
Moda	l verbs terminology	5
1	Scope	6
2	References	6
2 2.1	Normative references	
2.1	Informative references	
3	Definitions, symbols and abbreviations	
3.1	Definitions	
3.2	Symbols	
3.3	Abbreviations	
4	Test Suite Structure (TSS)	
5	Test Purposes (TP)	
5.1	Introduction	
5.1.1	TP naming convention	
5.1.2	Test strategy	
5.1.3	Test purpose structure	8
6	Test purposes (TP)	9
6.1	SIP NNI -SIP-I protocol interworking	9
6.1.1	Signalling Interworking of a Call from the IP Multimedia Subsystem towards the SIP-I based	
< 1 1 1	circuit-switched core network	
6.1.1.1 6.1.1.2	· · · · · · · · · · · · · · · · · · ·	
6.1.1.2 6.1.1.3		
6.1.1.4		
6.1.1.5		
6.1.1.6	· · · · · · · · · · · · · · · · · · ·	
6.1.1.7		
6.1.1.8		
6.1.1.9		
6.1.1.1		87
6.1.2	Signalling Interworking of a Call from SIP-I based circuit-switched core network towards the IP	07
6.1.2.1	Multimedia Subsystem	
6.1.2.2		
6.1.2.3		
6.1.2.4		
6.1.2.5		
6.1.2.6		
6.1.2.7	<u>.</u>	
6.1.2.8		
6.1.2.9 6.1.2.1		
6.1.2.1 6.1.2.1		
6.2 6.2	Supplementary Services	
6.2.1	Void	
6.2.2	Connected line presentation and restriction (COLP/COLR)	
6.2.3	Malicious call identification	
6.2.4	Subaddressing (SUB)	182
6.2.5	Call Forwarding Busy (CFB)/ Call Forwarding No Reply (CFNR) / Call Forwarding Unconditional	
	(CFU)	
6.2.6	Explicit Call Transfer (ECT)	191

6.2.7	Void	195
6.2.8	Call Hold	195
6.2.9	Call Completion on busy subscriber	208
6.2.10	Completion of Calls on No Reply (CCNR)	208
6.2.11	Terminal Portability (TP)	209
6.2.12	Conference calling (CONF) / Three-Party Service (3PTY)	210
6.2.13	Void	217
6.2.14	Multi-Level Precedence and Pre-emption (MLPP)	217
6.2.15	Global Virtual Network Service (GVNS)	219
6.2.16	Reverse charging (REV)	219
6.2.17	Void	222
6.2.18	Void	222
6.3	IMS Supplementary Services	222
6.3.1	Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR)	222
6.3.2	Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)	247
6.3.3	Communication Diversion (CDIV)	253
6.3.4	Conference call (CONF)	296
6.3.5	Message Waiting Indication (MWI)	308
6.3.6	Malicious Communication Identification (MCID)	308
6.3.7	Closed User Group (CUG)	312
6.3.8	Call Completion Services	318
6.3.9	Communication Waiting (CW)	338
Annex	A (informative): Bibliography	340
History		341

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://ipr.etsi.org).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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 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

In the present document "shall", "shall not", "should", "should not", "may", "may not", "need", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

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 TS 129 235 [1] (Release 10).

2 References

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

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

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

2.1 Normative references

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

- [1] ETSI TS 129 235 (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+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 Release 8)".
- [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 according to 3GPPTM 29.235 Release 10; Interworking between SIP-I based circuit-switched core network and other networks; Part 1: Protocol Implementation Conformance Statement (PICS)".

2.2 Informative references

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

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

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 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 TS 129 235 [1] apply.

3.3 Abbreviations

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

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

5.1.1 TP naming convention

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

Table 5.1.1-1: TP identifier naming convention scheme

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

5.1.2 Test strategy

As the base standard TS 129 235 [1] and 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 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 c	all/Sending_of_ SIP-IN\	VITE request /
Selection criteria			
Test Purpose name	Sending of SIP-INVITE	request	
Test Purpose	Ensure that on receptio	n of a SIP-INVITE requ	esting a session, the I-MGCF sends a
	SIP-INVITE request wit	h encapsulated IAM me	essage.
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGC	F SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	100 Trying
		Apply post to	est routine

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/Sending_of_ SIP-INVITE request /					
Selection criteria	PICS 6.1.1/1 AND PICS 6.2.1/					
Test Purpose name	Preconditions support indicated					
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 immediately sent. The Nature of connection indicator is set to 'continuity check performed on a previous circuit' or 'continuity check required'. After the UPDATE was received, a UPDATE is sent					
ISUP Parameter values	IAM: Nature of connection indi 'continuity check required'	cator = 'continuity check perfo	ormed on a previous circuit' or			
SIP Parameter values	INVITE: Supported: precondition SDP a=curr:qos local a=curr:qos remo a=des:qos mano	E: Supported: precondition, 100rel				
	183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv					
	a=curr:qos remo a=des:qos mano	· - · · · - ·				
Comments	a=curr:qos remo a=des:qos mano					
	SIP NNI MGCF SIP-I					
Message flows	SIP NNI INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)	+ + + +	INVITE (IAM) 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)			

TP number	P_101_003	Reference	[1], clause 7.2.4 [2], clause 7.2.3.1.1		
TSS reference SI	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request /				
	PICS 6.1.1/1 AND PICS 6.2.1/1 AND NOT PICS 6.2.1/2				
	reconditions support indicated				
			oupport of Propondition is		
	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				
UI	UPDATE was received. The Nature of connection indicator is set to 'continuity check is not				
	equired'.		·		
	M: Nature of connection indic		t required'		
SIP Parameter values IN	IVITE: Supported: preconditio				
	SDP a=curr:qos local r				
	a=curr:qos remot				
		atory local sendrecv			
	a=des:qos none i	remote sendrecv			
18	83: Require: 100rel				
	SDP a=curr:qos local r	none			
	a=curr:qos remot				
	a=des:qos manda	atory local sendrecv			
	a=des:qos manda	atory remote sendrecv			
	a=conf:qos remo	te sendrecv			
U	PDATE:				
	SDP a=curr:qos local s	sendrecv			
	a=curr:qos remot				
		atory local sendrecv			
		atory remote sendrecv			
20	00 OK UPDATE				
	SDP a=curr:qos local s	sendrecv			
	a=curr:qos remot				
		atory local sendrecv			
		atory remote sendrecv			
Comments	•	•			
Message flows	SIP NNI	MGCF	SIP-I		
IN	IVITE →				
10	00 Trying ←				
18	83 Session Progress				
	RACK →				
200 OK (PRACK) ←					
	PDATE →	→	INVITE (IAM)		
	00 OK (UPDATE) ←		, ,		
	Apply post test routine				

TP number	TP_101_006	Reference	[1], clause 7.2.4 [2], clause 73.3.1.1	
TSS reference	SID NNI SID I/Rasia call/San	ding of SID INVITE request.		
Selection criteria	SIP NNI - SIP-I/Basic call/Sending_of_ SIP-INVITE request / PICS 6.1.1/2 AND PICS 6.2.1/1 AND PICS 6.2.1/2; BICC support			
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 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			
ISUP Parameter values	IAM: Nature of connection indi			
SIP Parameter values	SDP a=curr:qos local a=curr:qos remo a=des:qos mano	IVITE: Supported: precondition, 100rel		
	183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv			
	a=curr:qos remo a=des:qos mano	· - · · · - ·		
	200 OK LIDDATE			
	SDP a=curr:qos local a=curr:qos remo a=des:qos mano	K UPDATE P 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 INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)	+ + + + +	SIP-I INVITE (IAM) 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)	
	1	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/Sending_of_ SIP-INVITE request /				
Selection criteria		.1/1 AND NOT PICS 6.2.1/2			
Test Purpose name		ated in the Supported header			
Test Purpose			the support of Precondition is		
	indicated in the Supported hUPDATE was received. The		apsulated IAM) is sent after the		
10110	expected'.				
ISUP Parameter values		ndicator = 'no COT to be exp	ected'		
SIP Parameter values	INVITE: Supported: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv				
	183: Require: 100rel SDP				
	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	u-usosquo manuatery romoto contarcor				
Message flows	SIP NNI INVITE 100 Trying 183 Session Progress PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE)	MGCF ← ← ← ← ← ←	SIP-I → INVITE (IAM)		
	Apply post test routine				

	TP_101_007	¬	Reference		[1], clause 7.2.4	
		•			[2], clause 7.3.3.1.1	
TSS reference	SIP NNI - SIF	P-I/Basic call/Send	ling_of_ SIP-INVITE	request /		
Selection criteria		AND PICS 6.2.1/2		•		
Test Purpose name	Preconditions	fulfilled indicated	in the INVITE reques	st		
Test Purpose	Ensure that F	reconditions are f	ulfilled is indicated in	the SDP	received in the INVITE	
				. The Na	ture of connection indicator is	
		T to be expected'.				
ISUP Parameter values	IAM: Nature	of connection indic	cator = 'continuity che	ck is not	required'	
	or					
			cator = 'no COT to be	expecte	d'	
SIP Parameter values	INVITE: Supp	orted: precondition	on, 100rel			
	SDP a=curr:qos local sendrecv					
		a=curr:qos remot				
			atory local sendrecv			
		a=des:qos none	remote sendrecv			
	180					
	SDP					
		a=curr:gos remote sendrecv				
		· ·	atory local sendrecv			
			atory remote sendred	CV		
Comments			-			
Message flows	SIP	NNI	MGCF		SIP-I	
_	INVITE	→		→	INVITE (IAM)	
	180 Ringing	←		←	180 Ringing (ACM)	
	PRACK					
	200 OK (PRA	CK)		←	200 OK (PRACK)	
	`	, 	Apply post test ro	outine	,	

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 response is sent to the callin	media type is rejected a 488 No g user.	ot Acceptable Here final
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	<u>ling_of_ SIP-INVITE reques</u>	t /
Selection criteria			
Test Purpose name	Unsupported media type is reje	ected session successful	
Test Purpose	Ensure that an unsupported me	edia type is rejected. The Sl	JT 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/	AVP 8	
	m= video 4713 RTP	/AVP 31	
	180 Ringing or 183 Session Pr	ogress	
	SDP: m=audio <appropria< th=""><th></th><th></th></appropria<>		
	m=video 0 RTP/AVF		
Comments		-	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	-)	INVITE (IAM)
	100 Trying ←		,
	CASE A		
	180 Ringing ←	•	180 Ringing (ACM)
	100 Kinging	•	100 Kinging (ACIVI)
	CASE B		
		_	400 Cassian Drawnsa
	183 Session Progress ←	•	
		Annie maat taat nastina	(ACM)
		Apply post test routine	

TP number	TP 101 012	Reference		[1], clause 7.2.1
	11 _101_012	1101010100		[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call	Sending of SIP-INVITE	request	
Selection criteria	2 74141 311 1/ Basic Gail	Conding_or_ On INVITE	- 15445517	
Test Purpose name	Unsupported codec is des	selected		
Test Purpose	• • • • • • • • • • • • • • • • • • • •		dec list in	the SDP answer if the codec is
	an unsupported codec.		400 1101 111	and obtained in the codes is
ISUP Parameter values				
SIP Parameter values	INVITE:			
	SDP: m=audio 4711	RTP/AVP <unsupported< th=""><th>codec> 8</th><th></th></unsupported<>	codec> 8	
	180 Ringing or 183 Session	on Progress		
	SDP: m=audio <appr< th=""><th>opriate Port #> RTP/AVF</th><th>8</th><th></th></appr<>	opriate Port #> RTP/AVF	8	
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	→	→	INVITE (IAM)
	100 Trying	←		
	CASE A			
	180 Ringing	←	←	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
			[2], clause 7.2.3.1.1
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE request /	
Selection criteria			
Test Purpose name	INVITE request without SDP of	fer received	
Test Purpose	Ensure that on receipt of an IN'		offer, the SUT sends a SDP
	offer in the first reliable non-fail	ure message.	
ISUP Parameter values			
SIP Parameter values	INVITE: Supported: 100rel		
	100 Dinging or 102 Coopies Dr	o areas	
	180 Ringing or 183 Session Pro SDP: m=audio 4711 RTP/		
Commonto	SDP. M=audio 4711 RTP/	AVP 6	
Comments	OID NINII	MOOF	OID I
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying		
	CASE A		
	180 Ringing ←	←	180 Ringing (ACM)
	PRACK →	→	PRACK
	200 OK PRACK ←	·	200 OK PRACK
	200 OKT TOTOK	•	200 SICI IONOR
	CASE B		
	183 Session Progress ←	←	183 Session Progress (ACM)
	PRACK →	→	PRACK
	200 OK PRACK ←	+	200 OK PRACK
		Apply post test routine	

TD mumb on	TD 404 044	Deference		[4] alaura 7.0.4
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/	Sending_of_ SIP-INVITE r	equest /	1
Selection criteria				
Test Purpose name	To header tag is sent in th	e first provisional response	е	
Test Purpose	Ensure that a To header to	ag is contained in the first	provisior	nal response
ISUP Parameter values				
SIP Parameter values	INVITE: To: <uri></uri>			
	180 Ringing or 183 Session	on Progress: To: <uri>; <t< th=""><th>ag></th><th></th></t<></uri>	ag>	
Comments				
Message flows	SIP NNI	MGCF		SIP-I
	INVITE	→	→	INVITE (IAM)
	100 Trying	←		
	CASE A			
	180 Ringing	←	←	180 Ringing (ACM)
	CASE B			
	183 Session Progress	←	←	183 Session Progress
				(ACM)
		Apply post test ro	utine	,

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	ling_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 				
ISUP Parameter values	(Recommendation E.164 [i.1])				
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	Reference	[1], clause 7.2.1		
			[2], clause 7.2.3.1.2.1		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_of_ SIP-INVITE request /			
Selection criteria	PICS 6.2.1/21				
Test Purpose name	SendingCompleteIndication is	mapped into a hex digit 'F' in tl	he called party number		
Test Purpose	Ensure that on receipt of a PS		cation element a hex digit 'F'		
	is sent al last digit in the called	party number	-		
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	<u>ling_of_ SIP-INVITE request /</u>			
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				
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 call/Send	ling_of_ SIP-INVITE request /			
Selection criteria	PICS 6.1.1/2				
Test Purpose name	Nature of connection indicator				
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. In the encapsulated IAM the nature of connection indicator is set Satellite indicator = 'no satellite circuit in the connection' Continuity check indicator = 'no COT to be expected or 'COT to be expected' Echo control device indicator = outgoing echo control device included				
ISUP Parameter values	Echo control device indicato	i = oatgoing echo control devi	ce included		
SIP Parameter values					
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE ->	→	INVITE (IAM)		
	100 Trying ←				
		Apply post test routine			

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	ing_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 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					
SIP Parameter values					
Comments					
Message flows	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 /	16 2'	
Selection criteria	NOT PICS 6.2.1/5 AND NOT P	ICS 6.2.1/6		
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 no impact of the coding of the Forward call indicator. The Forward call indicator is coded as follows: • End-to-end method indicator = ('00') no end-to-end method available (only link-by-link method available) • Interworking indicator = ('1') interworking encountered • 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	MGCF	SIP-I	
	INVITE ->	→	INVITE (IAM)	
	100 Trying ←			
		Apply post test routine		

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	ding_of_ SIP-INVITE request			
Selection criteria	NOT PICS 6.2.1/5 AND PICS (6.2.1/6			
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 access indicator = ('1') originating access ISDN				
ISUP Parameter values	SCCP method indicator =	(00) no indication			
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		
			[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 end	capsulated IAM is sent after ar	NVITE request was		
	received. If the PSTN XML atta				
	ProgressDescription = 6, the Fe				
	 End-to-end method indicat method available) 	tor = ('00') no end-to-end meth	od available (only link-by-link		
	 Interworking indicator = ('0)) no interworking encountered	1		
		licator = ('0') no end-to-end infe			
		ator = ('1 [']) ISDN user part/BIC			
			user part/BICC not required all		
	the way	,			
		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="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/S	Sending_of_ SIP-INVITE	request /		
Selection criteria					
Test Purpose name	Mapping of calling party ca	itegory			
Test Purpose	and the "language" in the	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 1-1			
ISUP Parameter values	IAM: Calling Party Categ	ory = 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_CP0	C	ISUP_CPC		
	cpc received in a P-Asserted-Identity PARAM	Accept-Language SIP_LANG	Sent Calling party's category		
VA_01	operator	fr	operator, language French		
VA_02	operator	en	operator, language English		
VA_03	operator	de	operator, language German		
VA_04	operator	ru	operator, language Russian		
VA_05	operator	es	operator, language Spanish		
VA_06	ordinary		ordinary calling subscriber		
VA_07	test		test call		
VA_08	payphone		payphone		
VA_09	mobile-hplmn		mobile terminal located in the home PLMN		
VA_10	mobile-vplmn		mobile terminal located in a visited PLMN		
VA_11	unknown		calling party's category unknown at this time		
			(national use		
VA_12	emergency		emergency service call		

TP number	TP_101_024	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 6.2.4/6				
Test Purpose name	G.177 μ-law: Coding of TMR				
Test Purpose	received. The Transmission Me	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	INVITE: SDP m=audio <port #=""> RTP/AVI a=rtpmap:0 PCMU/8000 or</port>	P 0 or <dynamic-pt> rtpmap: <dynamic-pt> PCMl</dynamic-pt></dynamic-pt>	J/8000		
Comments		· · ·			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	100 Trying ←				
	Apply post test routine				

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 o	SIP NNI - SIP-I/Basic call/Sending_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 encapsulated IAM is se	nt after an INVITE request was			
			parameter in the INVITE with			
	encapsulated IAM is se	et to '3,1 kHz audio' derived f	rom the codec PCMA.			
ISUP Parameter values	IAM:					
	TMR					
	3,1 kHz audio					
SIP Parameter values	INVITE:					
	SDP					
	m=audio <port #=""> F</port>	RTP/AVP 8 or <dynamic-pt></dynamic-pt>	•			
	a=rtpmap:8 PCMA/	8000 or rtpmap: <dynamic-f< th=""><th>PT> PCMA/8000</th></dynamic-f<>	PT> PCMA/8000			
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	SIP NNI - SIP-I/Basic call/Sending_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 encreceived. The Transmission Mo	edium Requirement parameter	in the INVITE with			
	encapsulated IAM is set to '64	kBit/s unrestricted' derived fror	n the CLEARMODE codec.			
ISUP Parameter values	IAM: TMR 64 kBit/s unrestricted					
SIP Parameter values	INVITE: SDP m=audio <port #=""> RTP/AVI a=rtpmap: <dynamic-pt> 0</dynamic-pt></port>					
Comments						
Message flows	SIP NNI INVITE → 100 Trying ←	MGCF	SIP-I INVITE (IAM)			
	Apply post test routine					

TP_101_024C SIP NNI - SIP-I/Basic call/Send	· (OID INVITE	[1], clause 7.2.1 [2], clause 7.2.3.1.2.5		
SIP NNI - SIP-I/Basic call/Send	· (OID INDUITE · · ·			
	ing_ot_ SIP-INVITE request /	16 10 2 2 2 2		
PICS 6.2.4/7	•			
CLEARMODE: Coding of TMR				
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 '64 kBit/s unrestricted' derived from the CLEARMODE codec.				
TMR 3,1 kHz audio				
•	•			
SIP NNI INVITE → 100 Trying ←	MGCF → Apply post test routine	SIP-I INVITE (IAM)		
	CLEARMODE: Coding of TMR Ensure that an INVITE with encreceived. The Transmission Meencapsulated IAM is set to '64 IIAM: TMR 3,1 kHz audio INVITE: SDP m=image 4 <port #=""> udptl t3 a=[Based on ITU-T T.38 [4] SIP NNI INVITE</port>	CLEARMODE: Coding of TMR Ensure that an INVITE with encapsulated IAM is sent after an received. The Transmission Medium Requirement parameter encapsulated IAM is set to '64 kBit/s unrestricted' derived from IAM: TMR 3,1 kHz audio INVITE: SDP m=image 4 <port #=""> udptl t38 or tcptl t38 a=[Based on ITU-T T.38 [4]] SIP NNI MGCF INVITE →</port>		

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	ding_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 en				
	received. The User service Info				
	information' or 'Unrestricted dig	gital inf. w/tones/ann' if the first	stated codec was set to		
	CLEARMODE.				
ISUP Parameter values	IAM:				
	USI				
	Information Transport C				
	Unrestricted digital i	nformation			
	or				
	Unrestricted digital inf. w/tones/ann				
SIP Parameter values	INVITE:				
	SDP				
	m=audio <port #=""> RTP/AVI</port>				
	a=rtpmap: <dynamic-pt> 0</dynamic-pt>	CLEARMODE/8000			
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 /		
Selection criteria	PICS 6.2.4/7	<u> </u>		
Test Purpose name	Fax T.38: Coding of USI			
Test Purpose	Ensure that an INVITE with encapsulated IAM is sent after an INVITE request was received. The User service Information parameter in the IAM is set to 'Unrestricted digital information' or 'Unrestricted digital inf. w/tones/ann' if the first stated codec was set to CLEARMODE.			
ISUP Parameter values	IAM: USI Information Transport C 3,1 kHz audio	apability		
SIP Parameter values	INVITE: SDP m=image 4 <port #=""> udptl t3 a=[Based on ITU-T T.38 [4]</port>	•		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←			
	Apply post test routine			

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	ding_of_ SIP-INVITE request /		
Selection criteria				
Test Purpose name	Coding of HLC			
Test Purpose	Ensure that an INVITE with en	capsulated IAM is sent after ar	NVITE 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		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/Send	ling_of_ SIP-INVITE request /	1.	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML HighLa	yerCompatibility		
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			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	HighLayerCompatibility			
	HLOctet3			
	CodingStandard>00			
	Interpretation>100<			
	PresentationMethod	>01<		
	HLOctet4	intino III C value		
Comments	HighLayerCharacter	ISTICS>HLC_value<		
Comments	OID MAIL	M005	OID I	
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 LowLay	yerCompatibility			
Test Purpose	Ensure that on receipt of a PST				
	LowLayerCompatibility elemen				
	IE present in an ISUP Access				
	value is derived from the PSTN	I XMLInformationTransferCapa	ability 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<				
	InformationTransfer	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			
			[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 i	information is mapped into a U	ser Service Information			
	Parameter the Information Tran	nsfer Capability value is derived	d from the PSTN			
	XMLInformationTransferCapab	ility element				
ISUP Parameter values	IAM:					
	USI					
	Information Transfer Ca	pability=ITC_value				
SIP Parameter values	xml version="1.0" encoding=</th <th>"utf-8"?></th> <th></th>	"utf-8"?>				
	PSTN					
	BearerCapability	BearerCapability				
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>ITC_value<					
	BCoctet4					
	TransferMode>00<					
	InformationTransferf	Rate>10000<				
	BCoctet5					
	Layer1Identification>	> 01<				
	UserInfoLayer1Protocol>00011<					
Comments						
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	PICS 6.2.1/5AND PICS 6.2.1/7				
Test Purpose name	Mapping of PSTN XML HighLa	yerCompatibility into User Tele	eservice Information			
	parameter					
Test Purpose	Ensure that on receipt of a PS					
	HighLayerCompatibility elemen					
	Information parameter the Hig		is derived from the PSTN			
	XML HighLayerCharacteristics	element				
ISUP Parameter values	IAM:					
	UTI					
	High Layer Characterist	ics>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	l>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		International Videotex interworking via gateways or interworking units
HLC_VA_7	'0110101'	Telex service
HLC_VA_8	'1000010'	FTAM application
HLC_VA_9	'1100000'	Videotelephony

TP number	TP_101_031	Reference	[1], clause 7.2.1	
			[2], clause 7.2.3.1.2.5a	
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling_of_ SIP-INVITE reques		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Fall Back connection type is se	ent		
Test Purpose	Ensure that on receipt of two B		a INVITE PSTN XML MIME	
	body			
	 The first stated codec in the 	e SDP m line is the equivale	ent to the second	
	BearerCapability element,	the BearerCapability element	nt is mapped into the User	
	Service prime (USI prime) parameter in the sent IAM, the TMR is set according the			
		ationTransferCapability valu		
		n the SDP m line is the equi		
		the BearerCapability element		
	Service Information (USI)	parameter in the sent IAM, the	he TMR prime is set according	
		ationTransferCapability valu	ie	
ISUP Parameter values	IAM:			
	TMR = second InformationTran			
	TMR prime = first InformationT	ransferCapability		
	USI = first BearerCapability	1.00		
OID D	USI prime = second BearerCap			
SIP Parameter values	INVITE: PSTN XML MIME body			
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>			
	BearerCapability			
	BCoctet3			
	CodingStandard>00<			
	InformationTransferCapability>00000<			
	or			
	InformationTransfer(Capability> 10000 <		
	BearerCapability			
	BCoctet3			
	CodingStandard>00	<		
	InformationTransfer	Capability>10001<		
Comments	SDP: m line contains as the firs	st codec CLEARMODE and	as the second codec a G.711	
	codec			
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →		NVITE (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/Ser	nding_of_ SIP-INVIT	E request /		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Fall Back connection type is not sent				
Test Purpose	•	BearerCapability ele	ments in a INVITE PSTN XML MIME		
	body				
			e equivalent to the second		
			ity element is mapped into the User		
			ent IAM, the TMR is set according the		
	second PSTN XML InformationTransferCapability value The second stated codec in the SDP m line is the equivalent to the first				
			ty element is mapped into the User		
			ent IAM, the TMR prime is set according		
	the first PSTN XML Inform				
			and take		
	Ensure that the INVITE with e	ncapsulated IAM do	es not contain the Fallback connection		
	type if the succeeding network	k does not support th	ne Fallback connection type:		
	 TMR = Speech or audio 3 	3,1 kHz			
	 USI = Speech or audio 3. 				
	 A TMR prime parameter 				
	A USI prime is not preser	nt			
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 bo				
Sir raiametei values	<pre><?xml version="1.0" encoding</pre></pre>				
	PSTN	- uti-0 :/			
	BearerCapability				
	BCoctet3				
	CodingStandard>0	0<			
	InformationTransfe	rCapability>00000<			
	or				
		rCapability>10000<			
	BearerCapability				
	BCoctet3				
	CodingStandard>0				
		rCapability>10001<			
	SDP:	shor DTD/AV/D CLE	ADMODE 0		
Comments	m=audio <pre>cproper port num</pre>		DDE and as the second codec a G.711		
Comments	codec	ISL COURC CLEARING	DL and as the second codec a G.711		
		network does not s	upport the Fall back connection type		
Message flows	SIP NNI	MGCF	SIP-I		
		>	→ INVITE (IAM)		
			(")		
	, , , , , , ,	Apply post test	routine		
			·		

TP number	TP_101_033	Referer	nce	[1], clause 7.2.1
				[2], clause 7.2.3.1.2.9
TSS reference	SIP NNI - SIP-I/Basic	call/Sending_of_	SIP-INVITE red	quest /
Selection criteria	PICS 6.2.1/8			
Test Purpose name	Max-Forwards receive	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		MGCF	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/Send	ling_of_ SIP-INVITE request /	16 37	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of PSTN XML ProgressIndicator			
Test Purpose	Ensure that on receipt of a PST	ΓΝ XML attachment in an INVI	TE request containing a	
	ProgressIndicator element, this			
	in an ISUP Access Transport P		tion value is derived from the	
	PSTN XML ProgressDescription	n element		
ISUP Parameter values	IAM:			
	ATP Progress Indicator			
	Progress Description=P	I_value		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	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

PI_value	XML ProgressIndicator ProgressDescription	ATP Progress Indicator value
PI_VA_1	'000001'	Call is not end-to-end ISDN; further call progress information
		may be available in-band
PI_VA_2	'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			
			[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			containing the rn and npdi parameters			
		/TTE with encapsulated IA	AM is sent. The Called Party Number is			
	set to:	- Ji (UN - () (i)				
			g number in national (significant)			
			per" or "Network routing number in			
	network specific num		to into well a street was allowed			
			to internal network number not allowed			
	<u> </u>	icator: 15DN (Telephony	numbering plan (Recommendation			
	E.164 [i.1])	ived from the user infe of	the request URI the country code is			
	removed.	ived from the user into or	the request ORI the country code is			
		mhar is set to:				
	The Called Directory Number is set to:					
	 Nature of address indicator "National (significant) number" Internal Network Number Indicator: routing to internal network number not allowed 					
	Numbering plan Indicator: ISDN (Telephony) numbering plan (<i>Recommendation</i>					
	E.164 [i.1])					
	Address Signal: derived from the rn parameter if the Number Portability Routing					
	Number contains an E164 number the country code is removed else the address digits					
	applied unchanged.		todo lo romevod eleo une addrese digita			
ISUP Parameter values	IAM:					
		Called Directory Number				
SIP Parameter values	INVITE:					
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi</number></called>					
	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_036	Reference	[1], clause 7.2.1			
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of SID INVITE request /	[2], clause 7.2.3.1.2A.1.2			
Selection criteria	PICS 6.2.2/2	iiig_oi_ SiF-iivii E request/				
		and Andreas in a Marke and in comme	The collection of consideration			
Test Purpose name	Number Portability Concatenation	ea 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 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 					
ISUP Parameter values	except the country code. IAM:					
	Called party number					
SIP Parameter values	INVITE:					
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing="">; npdi INVITE (IAM):</number></called>					
	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	TD 101 027	Reference	[41 alouge 7.2.4				
i P number	TP_101_037	Reference	[1], clause 7.2.1 [2], clause 7.2.3.1.2A.1.3				
TCC vofeveres							
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		essing Method is used. A				
	Network Routing Number is pr						
Test Purpose	Ensure that on receipt of an initial INVITE request containing the rn and npdi parameters						
	•	with encapsulated IAM is sent	t. The Called Party Number is				
	set to:						
		ator: "National (significant) nu					
			ll network number not allowed				
	,	or: ISDN (Telephony) number	ing plan (Recommendation				
	E.164 [i.1])						
		from the user info of the requ	est URI the country code is				
	removed.						
	The Network Routing Number						
		ator: "Network routing number					
		ork routing number in network					
	,	Numbering plan Indicator: ISDN (Telephony) numbering plan (Recommendation					
	E.164 [i.1])						
		from the rn parameter if the N					
		I number the country code is r	removed else the address digits				
	applied unchanged.						
ISUP Parameter values	IAM:						
	Called party number, Netw	ork Routing Number					
SIP Parameter values	INVITE:						
		number>; rn= <number portab<="" th=""><th>oility Routing Number>; npdi</th></number>	oility 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	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	.2.2/4				
Test Purpose name	Sending of Number Portability I	Forward Information					
Test Purpose	Ensure that on receipt of an init	ial INVITE request containing	the npdi parameters in the				
	request line, an INVITE with en						
	contains the Number Portability	Forward Information paramet	er set according the following				
	roles						
		atabase Dip Indicator is prese					
		r, set to "number portability qu	ery done for called number,				
	non-ported called subscrib	er".					
ISUP Parameter values	IAM:						
	Number Portability Forward Information						
SIP Parameter values	INVITE:						
	Request URI: sip: <called number="">; npdi</called>						
	INVITE (IAM):						
	Request URI: sip: <called n<="" th=""><th>umber>;</th><th></th></called>	umber>;					
Comments							
Message flows	SIP NNI	MGCF	SIP-I				
	INVITE → INVITE (IAM)						
	100 Trying ←						
	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/Se	nding_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 Portabilit	y 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 Forwa	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/Send	ing_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 rn parameters in the					
	request line, an INVITE with en					
	contains the Number Portability	Forward Information paramet	er set according the following			
	roles					
	 If there is no Number Porta 	ability Database Dip Indicator,	set to "number portability			
	query not done for called n	umber"				
ISUP Parameter values	IAM:					
	Number Portability Forward Information					
SIP Parameter values	INVITE:					
	Request URI: sip: <called number="">; rn=<number number="" portability="" routing=""></number></called>					
	INVITE (IAM):					
	Request URI: sip: <called n<="" th=""><th>umber>;</th><th></th></called>	umber>;				
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	→	INVITE (IAM)			
	100 Trying ←					
	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/					
Test Purpose name	Request URI cic parameter is	mapped into IAM TNS param	eter			
Test Purpose	Ensure that on receipt of an initial INVITE request containing the cic parameter in the					
	request line, an INVITE with er	ncapsulated IAM is sent. The	Transit network selection			
	parameter is set to:					
	 Type of network identified 	cation: CCITT-standardized i	dentification or national network			
	identification.					
	 Network identification p 	lan: according value of Type	of network identification			
	 Network identification: 	igits derived from the carrier	identification code value of the			
	cic parameter					
ISUP Parameter values	IAM:					
	Transit network selection B	ICC ?				
SIP Parameter values	INVITE:					
		number>; cic=< Carrier identit	ication code >			
	INVITE (IAM):					
	Request URI: sip: <called r<="" th=""><th>number>;</th><th></th></called>	number>;				
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 - SIF	P-I/Basic call/Sen	ling of COT/		[[2], clause 1.2.3.1.3	
Selection criteria		SIP NNI - SIP-I/Basic call/Sending_of_COT/ 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				
			ollowing conditions h			
			ns (if any) in the IMS			
					cessfully performed on the	
	outgoing				, .	
ISUP Parameter values	IAM: Nature	e of connection in	dicator = "Continuity	check per	formed on a previous circuit"	
	or "Co	ntinuity check red	quired on this circuit"			
SIP Parameter values		quire: precondition				
	SDP	a=curr:qos local				
		a=curr:qos remo				
			datory local sendrec	/		
		a=des:qos none	remote sendrecv			
	400. Daguina	1001				
	183: Require		200			
	SDP	a=curr:qos local a=curr:qos remo				
			datory local sendrecy	,		
	a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv					
		u=00111.q00 101110	710 0011d100V			
	UPDATE:					
	SDP	a=curr:qos local	sendrecv			
		a=curr:qos remo				
		a=des:qos mano	datory local sendrecy	/		
		a=des:qos mano	datory remote sendre	ecv		
	200 OK UPD					
	SDP	a=curr:qos local				
		a=curr:qos remo				
			datory local sendrecy datory remote sendre			
Comments		a=ues.qus mand	latory remote sendre	5 CV		
Message flows	SIP	NNI	MGCF		SIP-I	
inecougo none	INVITE	·····		→	INITE (IAM)	
	100 Trying	-	•	-	100 Trying	
	183 Session			-	183 Session Progress	
	PRACK	• • • • • • • • • • • • • • • • • • •		→	PRACK	
	200 OK (PRA			+	200 OK (PRACK)	
	UPDATE	→		÷	UPDATE	
	200 OK (UPE			←	200 OK (UPDATE)	
	Apply post test routine					
	Apply poor tool realine					

TP number	TP_102_002		Referer			[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	If the INVITE with encapsulate IAM has already been sent, the UPDATE message shall be					
	sent, when a	ll of the follow	ing condition	s have been met	:	-
	- the requ	ested precond	ditions (if any) in the IMS netw	ork h	ave been met
ISUP Parameter values	IAM: Nature of connection indicator = "COT to be expected"					
SIP Parameter values	INVITE: Require: precondition					
	SDP a=curr:qos local none					
		a=curr:qos r				
			nandatory loc			
		a=des:qos n	one remote s	sendrecv		
	102. Doguiro	. 100 rol				
	183: Require		ocal none			
	SDF	a=curr:qos le a=curr:qos r				
			nandatory loc	al condracy		
				note sendrecv		
		•	•			
	a=conf:qos remote sendrecv					
	UPDATE:					
	SDP a=curr:qos local sendrecv					
	32.	a=curr:qos r		•		
		a=des:qos mandatory local sendrecv				
	a=des:gos mandatory remote sendrecv					
	,,					
	200 OK UPDATE					
	SDP a=curr:qos local sendrecv					
			emote sendre			
			nandatory loc			
		a=des:qos n	nandatory rer	note sendrecv		
Comments						
Message flows		NNI		MGCF		SIP-I
	INVITE		→		→	INVITE (IAM)
	100 Trying		←		←	100 Trying
	183 Session	Progress	←		←	183 Session Progress
	PRACK		→		→	PRACK
	200 OK (PRA	ACK)	←		←	200 OK (PRACK)
	UPDATE	•	→		→	UPDATÈ
	200 OK (UPDATE) ← 200 OK (UPDATE)					
	`	,	Apply	post test routii	ne	,
	•		,	-		

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 o	f in-dialog SIP INFO requests	[[2] 1.2.3.1.3A.2		
Selection criteria	PICS 6.2.3/1	i iii-dialog on Tivi o requests			
Test Purpose name	Receipt of INFO request				
Test Purpose	If the MGCF supports overlap	signalling from the preceding IN	/IS node and the first		
	incoming SIP INVITE request of				
	not forward this first SIP INVIT				
	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: Suppor	ted: 100rel or Required: 100rel			
	INFO:				
	Content-Type: application/x-session-info				
	SubsequentDigit: <addition< th=""><th>al digits></th><th></th></addition<>	al digits>			
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			a IMS node and the first			
Took Fairpood	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 all digits required to identify the called subscriber.					
ISUP Parameter values	used by the MOOF to collect a	an digits required to identity t	The called Subscriber.			
SIP Parameter values						
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE(1)	→				
	CASE A					
	INVITE(2)	→				
	484 Address Incomplete(1)	←				
	ACK	→				
	INVITE(3)	→	→ INVITE (IAM)			
	484 Address Incomplete(2) ←					
	180 Ringing(3)	←	← 180 Ringing(ACM)			
	CASE B					
	484 Address Incomplete(1)	←				
	ACK	→				
	INVITE(2)	→				
	484 Address Incomplete(2)	←				
	ACK	→				
	INVITE(3)	→	→ INVITE (IAM)			
	180 Ringing(3)	← Apply post test routine	← 180 Ringing (ACM)			

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	II/Sending_of_18x/	
Selection criteria			
Test Purpose name	Sending of 180 Ringing	after 180 Ringing with a encap	osulated ACM was received
Test Purpose	The SUT shall send the	SIP 180 Ringing when receivi	ng the following messages:
	- 180 Ringing (ACM) w	vith Called party's status indica	ator set to subscriber free
ISUP Parameter values	ACM: BCI Called party:	status indicator = subscriber f	ree
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:
	- 180 Ringir	ng (CPG) with Ev	ent indicator s	et to ALERTING.
ISUP Parameter values	ACM: BCI Ca	alled party status	indicator = no	indication
	CPG: Event	indicator = ALER	TING	
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	←	← Apply pos	180 Ringing CPG(ALERTING) 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/Send	ling_of_18x/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	ACM received, P-Earl-Media he	eader present in 180			
Test Purpose	Ensure that on receipt of a 180	Ringing with an encapsulated	I ACM subscriber free a 180		
	Ringing is sent. In the 180 Ring	ging 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				
	P-Early-Media: supported				
	180 ringing				
	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	call/Sending_of_18x/			
Selection criteria	PICS 6.2.1/10				
Test Purpose name	Provide media in a Cal	II-Info header field, or an Ale	rt-Info header field in a 180		
Test Purpose	Ensure that the SUT is	able to provide media instea	ad of the in-band media received from		
	the PSTN in a Call-Info	header field, or an Alert-Inf	o header field present in a 180 Ringing		
ISUP Parameter values	ACM: BCI Called part	y status indicator = subscribe	er free		
SIP Parameter values	180:				
	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		
	180 Ringing	←	← 180 Ringing (ACM - free)		
	Apply post test routine				

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	ending_of_18x/		
Selection criteria	PICS 6.2.1/10			
Test Purpose name	Provide media in a Call-Info	header field, or an	Alert-Info header field in a 183	
Test Purpose	Ensure that the SUT is able	to provide media ir	nstead of the in-band media received from	
	the PSTN in a Call-Info head	ler field, or an Aler	t-Info header field present in a 183 Session	
	Progress			
ISUP Parameter values	ACM: BCI Called party state	us indicator = no in	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 to	est routine	

TP number	TP_104_006	Reference	[1], clause 7.2.1		
Ti Hamber	11 _104_000	Reference	[2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/S	Sending of 18x/	<u>[[-]</u> ,		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Progress Indica	ator received in a 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 or 183 Session				
	progress is sent . The Progress Indicator IE contained in the ACM ATP or CPG ATP				
	parameter is mapped into t	he PSTN XML elemen	t in the 180 as indicated in		
	table 6.1.1.4-2.				
			d party status subscriber free 180 Ringing e ProgressIndicator value PI_value		
			t indicator ALERTING 180 Ringing is sent		
			ressIndicator value PI_value		
ISUP Parameter values		alled party status = su			
	CASE B BCi C	alled party status = no	indication		
		'inband info available'			
	CPG: ATP contains a Prog	gress Indicator IE			
SIP Parameter values	180:				
	xml version="1.0" encod</th <th>ing="utt-8"?></th> <th></th>	ing="utt-8"?>			
	PSTN				
	ProgressIndicator ProgressOctet3				
	CodingStandard	> 00~			
	Location <yyyy></yyyy>	>00 <			
	ProgressOctet4				
	ProgressDescrip	otion> PI_value <			
	400				
	183:	ing "uff 0"2.			
	xml version="1.0" encoding="utf-8"? PSTN				
	ProgressIndicator ProgressOctet3				
	CodingStandard	>00<			
	Location <yyyy></yyyy>				
	ProgressOctet4				
	ProgressDescrip	tion> PI_value <g< th=""><th></th></g<>			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE -	→	INVITE (IAM)		
	CASE A				
	180 Ringing ←	_	180 Ringing (ACM free)		
	180 Kinging	•	ATP contains a Progress Indicator IE)		
	CASE B		7.11 Somanis a Frogress indicator iL)		
	183 Session Progress ←	←	183 Session Progress(ACM – no		
		-	indication)		
	180 Ringing ←	←	CPG (ATP contains a Progress Indicator		
			IE)		
		Apply post tes	t routine		

TP number	TP_104_007	Reference	[1], clause 7.2.1			
TSS reference	SID NINI SID I/Basic call/Son	ding of 18y/	[2], clause 7.2.3.1.4			
Selection criteria	PICS 6.2.1/5	SIP NNI - SIP-I/Basic call/Sending_of_18x/				
Test Purpose name		ibility received in a 18x Messag	us with anappaulated			
_	ACM/CPG	,	•			
Test Purpose	Ensure that on receipt of an18x Message with encapsulated ACM called party status subscriber free or a 183 with a CPG event indicator ALERTING, a 180 Ringing is sent. The High layer compatibility IE contained in the ACM ATP or CPG ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in the 180 as indicated in table 6.1.1.4-3. High layer compatibility received in an ACM called party status subscriber free 180 Ringing is sent in the PSTN XML element contains the HighLayerCompatibility value HLC_value					
		eceived in an CPG Event indica				
ISUP Parameter values		ement contains the HighLayerC ed party status = subscriber free				
130F Farameter values	ATP con	tains a High layer compatibility				
		ed party status = no indication pand info available				
	CPG: ATP contains a High la					
SIP Parameter values	180:	yer compatibility in				
	<pre><?xml version="1.0" encoding PSTN HighLayerCompatibility HLOctet3 CodingStandard>0 Interpretation>100< PresentationMethol HLOctet4 HighLayerCharacte</pre>	O<				
Comments						
Message flows	SIP NNI INVITE	MGCF →	SIP-I 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 compatit	pility received in a 18x with enc	apsulated 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 • Low layer compatibility rec	ceived in an ACM called party s N XML element contains the Lo ceived in an CPG Event indicat	owLayerCompatibility value or ALERTING 180 Ringing is		
		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 oBCi 'inband info available'				
	CPG: ATP contains a Low lay	er compatibility IE			
SIP Parameter values	180: xml version="1.0" encoding="utf-8"? PSTN LowLayerCompatibility> LLOctet3> CodingStandard>00< InformationTransferCapability>ITC_value< LLOctet4> TransferMode>00< InformationTransferRate>10000<				
Comments			212.1		
Message flows	SIP NNI INVITE →	MGCF →	SIP-I INVITE (IAM)		
	CASE A	_			
	180 Ringing ← CASE B	+	180 Ringing (ACM) (ATP contains LLC)		
	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 [2], clause 7.2.3.1.4		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding of 18v/	[[2], clause 7.2.3.1.4		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Bearer Capability	received in a 18x with encapeu	lated ACM/CPG		
Test Purpose name					
·	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 in the PSTN XML element contains the BearerCapability value ITC_value				
ISUP Parameter values	ATP contains a BC IE CASE B BCi Calle	ed party status = subscriber freed party status = no indication and info available' Capability IE	ee		
SIP Parameter values	180: xml version="1.0" encoding PSTN BearerCapability BCoctet3 CodingStandard 00	="utf-8"?> O< Capability>ITC_value< Rate>10000< >01<			
Comments					
Message flows	SIP NNI INVITE -3	MGCF →	SIP-I INVITE (IAM)		
	180 Ringing	· •	180 Ringing (ACM – free) (ACM with ATP contains a Bearer Capability IE)		
	183 Session Progress 180 Ringing		183 Session Progress (ACM – no indication) 180 (CPG with ATP contains		
		Apply post test routine	a Bearer Capability IE)		

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/Send	ding_of_18x/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of Backward call indic	ator into PSTN XML Progressl	ndicator element value 1 sent			
Toot Dumana	in 180	Dia sia a vitta sa sa sa data d AC	Mand the Declared cell			
Test Purpose	Ensure that on receipt of a 180					
	indicator ISDN User Part indica					
	Ringing is sent. A PSTN XML F (Call is not end-to-end ISDN: "f					
ISUP Parameter values	,		•			
	ACM: BCI ISDN User Part indicator = ISDN User Part not used all the way					
SIP Parameter values	180 Ringing					
	<pre><?xml version="1.0" encoding=</pre></pre>	="utf-8"'?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	>000001<				
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 104 011	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/	11. 37	
Selection criteria	PICS 6.2.1/5	-		
Test Purpose name	Mapping of Backward call indicin 180	ator into PSTN XML Progress	Indicator 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 User Part	ndicator = ISDN User Part use	ed all the way	
	ISDN access ind	icator = Terminating access no	on-ISDN	
SIP Parameter values	180 Ringing xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>			
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 indic in 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	MGCF	SIP-I	
	INVITE →	→	IAM	
	100 Trying ←	←	100 Trying	
	180 Ringing ←	←	180 Ringing (ACM)	
		Apply post test routine		

TP number	TP_104_013	Referer	nce	[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 optional B value 8 sent in 180	sackward call indic	cator into PSTN 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 now ava		ator in-band informati	on 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/Send	ling of 18y/	[[2], clause 7.2.3.1.4		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/				
Test Purpose name	The SUT performs Fall back	1744011000.2.1/0			
Test Purpose		VITE request and the subsequ	uent ISUP/BICC network is not		
rest i di pose	able to perform Fall back, Fall				
	(IAM) is set to 'speech' or '3,1 I				
	element received in the PSTN				
ISUP Parameter values	Cicinent received in the Ferri	ANIL: Open an Aem is receive	d a roo kinging is sent		
SIP Parameter values	INVITE: PSTN XML MIME b	ody			
on rarameter values	<pre><?xml version="1.0" encoding=</pre></pre>				
	PSTN	- un o :>			
	BearerCapability				
	BCoctet3				
	CodingStandard>00	 			
	InformationTransfer				
	or				
	InformationTransfer	Capability>10000<			
	BearerCapability				
	BCoctet3				
	CodingStandard>00				
	InformationTransferCapability>10001<				
	180 Ringing				
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
		ProgressDescription>0000101<			
	BearerCapability				
	BCoctet3				
	CodingStandard>00				
	InformationTransfer	Capability> 00000 <			
	or				
	InformationTransfer	Capability>10000<			
0	Fallback is manifestical in the City	IT.			
Comments	Fallback is performed in the St		CID I		
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_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	neter 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 u	sed = speech				
SIP Parameter values	180 Ringing					
	xml version="1.0" encoding=</th <th>"utf-8"?></th> <th></th>	"utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>00<					
	InformationTransferCapability>00000<					
Comments						
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE →	→	INVITE (IAM)			
	100 Trying ←	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	ling_of_18x/	16 37		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.4/	I AND PICS 6.2.4/8			
Test Purpose name	Receipt of TMU 3,1 kHz audio,	no BC present in ATP			
Test Purpose	Ensure that on receipt of a Trai				
	the 180 Ringing with encapsula	ited ACM, a 180 Ringing is ser	nt and a PSTN XML		
	BearerCapability element is pre	esent the InformationTransferC	Capability is set to 3,1 kHz		
	audio				
ISUP Parameter values	ACM: Transmission medium u	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<				
	InformationTransfer	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/	I AND PICS 6.2.4/8			
Test Purpose name	Receipt of TMU, BC present in	ATP PSTN XML BearerCapab	oility sent in 180		
Test Purpose	Ensure that on receipt of a Trai				
	Capability IE in the 180 Ringing				
	PSTN XML BearerCapability el	ement is present the Information	onTransferCapability is set as		
	indicated in table 6.1.1.4-1				
ISUP Parameter values	ACM: Transmission medium u	sed, ATP Bearer Capability IE			
SIP Parameter values	180 Ringing				
	xml version="1.0" encoding="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 BearerCapat	bility sent in 183		
Test Purpose	Ensure that on receipt of a Tra				
	Capability IE in the 180 Ringing				
	and a PSTN XML BearerCapal	pility element is present the Inf	formationTransferCapability is		
	set as indicated in table 6.1.1.4				
ISUP Parameter values	ACM: Transmission medium u	sed, ATP Bearer Capability IE			
	BCi Called party status	= no indication			
SIP Parameter values	183 Session Progress				
	<pre><?xml version="1.0" encoding=</pre></pre>	:"utf-8"?>			
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>ITC_value<				
Comments	•••				
Message flows	SIP NNI	MGCF	SIP-I		
Message news	INVITE →	→	INVITE (IAM)		
	100 Trying ←	+	100 Trying		
	183 Session Progress		183 Session Progress		
	(ACM)				
	Apply post test routine				

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

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

TP number	TP_104_019		Reference	[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 indicati	ion received, no	SIP response is	sent
Test Purpose				Progress with encapsulated ACM no SIP
			oes not contain	a P-Early-Media header
ISUP Parameter values	IAM: 3,1 kHz	audio		
	ACM: BCI Call	ed party status i	ndicator = no ind	dication
SIP Parameter values				
Comments				
Message flows	SIP NNI	MG	CF	SIP-I
	INVITE	→	→	INVITE(IAM)
			← Apply post te	183 Session Progress(ACM(no indication)) est 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	nding_of_18x/			
Selection criteria	PICS 6.2.1/9				
Test Purpose name	ACM received, P-Earl-Media	header present in 183			
Test Purpose	Ensure that on receipt 183 Se				
	Session Progress is sent. In t	he 183 session Progress a F	P-Early-Media header is present		
	indicating authorization of ear	ly media			
ISUP Parameter values	IAM: 3,1 kHz audio				
	ACM: BCI Called party status	s indicator = no indication			
SIP Parameter values	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 (no indication)		
		Apply post test routine	•		

TP number	TP_104_021	Reference	[1], clause 7.2.1		
			[2], clauses 7.2.3.1.4A,		
			table, 7.2.3.1.4A.1		
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_18x/	·		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	CPG received, P-Earl-Media	header present in 183			
Test Purpose			ard call indicator set to In-band		
		is now available a 183 Session			
		ledia header is present indicati	ng authorization of early media		
ISUP Parameter values	IAM: 3,1 kHz audio				
	CPG: oBCi In-band info or a	n appropriate pattern is now	available		
SIP Parameter values	INVITE:				
	Supported: 100rel				
	P-Early-Media: supported				
	183 Session Progress				
	P-Early-Media: < authoriz	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], clauses 7.2.3.1.4A,
			table, 7.2.3.1.4A.1
TSS reference	SIP NNI - SIP-I/Basic call/Send	ding_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 Backward call indicator In-band pattern is now available, a 183 element is present the value is	d information indicator in-band Session Progress is sent. A P set to No 8	information or an appropriate STN XML ProgressIndicator
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 ProgressDescription</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], clauses 7.2.3.1.4A,
			table, 7.2.3.1.4A.1
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	ator in encapsulated ACM into	PSTN XML
	ProgressIndicator element valu	ie 1 sent in a 183	
Test Purpose	Ensure that on receipt of a 183		
	Backward call indicator ISDN L	Jser Part indicator is set to ISD	N User Part not used all the
	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	>000001<	
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	
			[2], clauses 7.2.3.1.4A,	
			table, 7.2.3.1.4A.1	
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_18x/		
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Mapping of Backward call inc	dicator in encapsulated ACM int	to PSTN XML	
	ProgressIndicator element va			
Test Purpose		33 Session Progress with encap		
		User Part indicator is set to IS		
		Terminating access non-ISDN,		
		Indicator element is present the	e value is set to No 2	
	(Destination address is non-l	- /		
ISUP Parameter values		ndicator = ISDN User Part used		
		cator = Terminating access nor	n-ISDN	
		s indicator = no indication		
SIP Parameter values	183 Session Progress			
	xml version="1.0" encoding</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>		
		PSTN		
	ProgressIndicator			
	<u></u> .			
	ProgressOctet4			
	ProgressDescription	on> 0000010 <		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
		→	INVITE (IAM)	
	, , ,	←		
	183 Session Progress	+ +	183 Session Progress (ACM)	
	Apply post test routine			

TP number	TP_104_025	Reference	[1], clause 7.2.1	
			[2], clauses 7.2.3.1.4A,	
			table, 7.2.3.1.4A.1	
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	ator into in encapsulated ACM	PSTN XML	
	ProgressIndicator element valu	ue 7 sent in a 183		
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 ProgressIndicator 6	element is present the value is	set to No 7	
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			
	xml version="1.0" encoding="utf-8"?			
	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	
Ti Hamber	11 _104_020	Kelefelice	[2], clauses 7.2.3.1.4A,	
			table, 7.2.3.1.4A.2	
TSS reference	SID NINI SID I/Pasis call/So	anding of 19y/	table, 7.2.3.1.4A.2	
Selection criteria	SIP NNI - SIP-I/Basic call/Sending_of_18x/ PICS 6.2.1/5			
		nd and indicator in an anna dat	ad CDC into DCTN VMI	
Test Purpose name	ProgressIndicator element v	rd call indicator in encapsulat alue 8 sent in a 183	ed CPG Into PSTN XIVIL	
Test Purpose	Ensure that on receipt of a 1	83 Session Progress with end	capsulated CPG and the optional	
-			and information or an appropriate	
			A PSTN XML ProgressIndicator	
	element is present the value		Ğ	
ISUP Parameter values	CPG: Event indicator = Pro			
			nation or an appropriate pattern	
	is now availab			
SIP Parameter values	183 Session Progress			
	xml version="1.0" encodin</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescripti	on> 0001000 <		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
		•	← 183 Session Progress	
			(ACM no indication)	
	183 Session Progress	←	← 183 Session Progress	
			(CPG)	
		Apply post test routine		

TP number	TP_104_027	Reference	[1], clause 7.2.1 [2], clauses 7.2.3.1.4A, table, 7.2.3.1.4A.2
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_18x/		
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indic ProgressIndicator element value		PSTN XML
Test Purpose	Ensure that on receipt of 183 Session Progress with an encapsulated a CPG and the Backward call indicator ISDN User Part indicator is set to ISDN User Part not used all the way, a 183 Session Progress is sent. A PSTN XML ProgressIndicator element is present the value is set to No 1 (Call is not end-to-end ISDN: "further progress information may be available in-band")		
ISUP Parameter values	CPG: Event indicator = Progre BCI ISDN User Part ind	ess icator = ISDN User Part not us	ed all the way
SIP Parameter values	183 Session Progress xml version="1.0" encoding= PSTN ProgressIndicator ProgressOctet4 ProgressDescription</th <th></th> <th></th>		
Comments			
Message flows	SIP NNI INVITE → 183 Session Progress ←	-	SIP-I INVITE(IAM) 183 Session Progress (ACM) 183 Session Progress (CPG)
		Apply post test routine	

TP number	TP_104_028	Reference	[1], clause 7.2.1
			[2], clauses 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	cator in encapsulated CPG into	PSTN XML
	ProgressIndicator element valu	ue 2 sent in a 183	
Test Purpose	Ensure that on receipt of a 183	Session Progress with encap	sulated CPG and the
	Backward call indicator ISDN U	Jser Part indicator is set to ISD	N User Part used all the way
	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	CPG: Event indicator = Progre	ess or in-band information or a	n appropriate pattern is
	now a	vailable	
	BCI ISDN User Part ind	icator = ISDN User Part used	all the way
	BCi ISDN access indica	tor = Terminating access non-	ISDN
SIP Parameter values	183 Session Progress		
	xml version="1.0" encoding="utf-8"?		
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription	>000010<	
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_029	Reference	[1], clause 7.2.1
			[2], clauses 7.2.3.1.4A,
TCCforence		dia a of ADod	table, 7.2.3.1.4A.2
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_18x/	
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of Backward call indic		PSTN XML
	ProgressIndicator element value		
Test Purpose		3 Session Progress with encap	
		Jser Part indicator is set to ISD	
	and ISDN access indicator = T	erminating access ISDN, a 18	3 Session Progress is sent. A
	PSTN XML ProgressIndicator	element is present the value is	set to No 7
ISUP Parameter values	CPG: Event indicator = Progr	ess or in-band information or a	n appropriate pattern is
	now a	available	
	BCI ISDN User Part inc	dicator = ISDN User Part used	all the way
	BCi ISDN access indica	ator = Terminating access ISDI	N
SIP Parameter values	183 Session Progress		
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="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 Message with encapsulated ACM called party status no			
		tor in-band information or an ap		
	available containing a ATP Pro			
		d in the ACM or CPG ATP par		
	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	s 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:	W . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1 . 2 . 1		
	xml version="1.0" encoding:</th <th>="utf-8"?></th> <th></th>	="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet3 CodingStandard>00			
	Location>yyyy<)<		
	ProgressOctet4			
		ProgressOctet4 ProgressDescription>PI_value<		
Comments	1 10910002 0001101101			
Message flows	SIP NII	MGCF	SIP-I	
Incocugo none	INVITE -		INVITE (IAM)	
		-		
	CASE A			
	183 Session Progress €	-	183 Session Progress	
	Too ecosion riogross	-	(ACM no indication) ATP	
			contains a Progress	
			Indicator IE	
	CASE B			
		←	183 Session Progress	
			(ACM – no indication)	
	183 Session Progress ←	- ←	183 Session Progress	
			(CPG – PROGRĚSS)	
			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	'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_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 Test Purpose name Mapping of High layer compatibility received in a ACM/CPG into 183 Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party status no indication or CPG event indicator in-band information or an appropriate pattern now available, a 183 Session Progress is sent. The High layer compatibility IE contained the ACM ATP parameter is mapped into the High layer Compatibility PSTN XMI alament			
TSS reference SIP NNI - SIP-I/Basic call/Sending_of_18x/ Selection criteria PICS 6.2.1/5 Test Purpose name Mapping of High layer compatibility received in a ACM/CPG into 183 Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party status no indication or CPG event indicator in-band information or an appropriate pattern now available, a 183 Session Progress is sent. The High layer compatibility IE contained			
Selection criteria PICS 6.2.1/5 Test Purpose name Mapping of High layer compatibility received in a ACM/CPG into 183 Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party status no indication or CPG event indicator in-band information or an appropriate pattern now available, a 183 Session Progress is sent. The High layer compatibility IE contained			
Test Purpose name Mapping of High layer compatibility received in a ACM/CPG into 183 Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party status no indication or CPG event indicator in-band information or an appropriate pattern now available, a 183 Session Progress is sent. The High layer compatibility IE contained			
Test Purpose Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party status no indication or CPG event indicator in-band information or an appropriate pattern now available, a 183 Session Progress is sent. The High layer compatibility IE contained			
Test Purpose Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party status no indication or CPG event indicator in-band information or an appropriate pattern now available, a 183 Session Progress is sent. The High layer compatibility IE contained			
now available, a 183 Session Progress is sent. The High layer compatibility IE contained			
the ACM ATP parameter is manned into the Highliguer Competibility PCTN VML clamps			
	the ACM ATP parameter is mapped into the HighLayerCompatibility PSTN XML element in		
	the 183 Session Progress as indicated in table 6.1.1.4-3.		
High layer compatibility received in an ACM called party status no indication, a 183			
Session Progress is sent in the PSTN XML element contains the			
HighLayerCompatibility value HLC_value			
High layer compatibility received in an CPG Event indicator in-band information or a superposition of the position of the	ın		
appropriate pattern is now available 183 Session Progress is sent in the PSTN XML	-		
element contains the HighLayerCompatibility value HLC_value ISUP Parameter values ACM: CASE A BCi Called party status = no indication			
CASE B BCi Called party status = no indication			
oBCi 'inband info available'			
CPG: ATP contains a High layer compatibility IE			
SIP Parameter values 183 Session Progress:			
<pre></pre>			
PSTN			
HighLayerCompatibility			
HLOctet3			
CodingStandard>00<			
Interpretation>100<			
PresentationMethod>01<			
HLOctet4			
HighLayerCharacteristics>HLC_value<			
Comments MOOF CIP NAME OF CIP I			
Message flows SIP NNI MGCF SIP-I			
INVITE → INVITE (IAM)			
CASE A			
183 Session Progress ← 183 Session Progress			
(ACM)			
(ACIVI)			
CASE B			
← 183 Session Progress			
(ACM – no indication))			
183 Session Progress ← 183 Session Progress			
(CPG - ATP contains a Hi	igh		
layer compatibility IE)	5		
Apply post test routine			

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 compatibility received in a 183 Session Progress with encapsulated			
	ACM/CPG into 183 Session Progress			
Test Purpose		Ensure that on receipt of a 183 Session Progress with encapsulated ACM called party		
status no indication or CPG event indicator in-band information or an appropria				
		Progress is sent. The Low lay		
		napped into the LowLayerComp	patibility PSTN XML element in	
	the 183 Session Progress as			
		eceived in an ACM called party		
		t in the PSTN XML element cor	itains the	
	LowLayerCompatibility \		tonin bondintonoction on a	
	Low layer compatibility r	eceived in an CPG Event indica	ator in-band information or an	
		ow available 183 Session Progre		
ISUP Parameter values		wLayerCompatibility value ITC_ lled party status = no indication	value	
130P Parameter values		lled party status = no indication		
		nband info available'		
	CPG: ATP contains a Low I			
SIP Parameter values	183 Session Progress:	ayer companionity in		
on rarameter varies	<pre><?xml version="1.0" encodin</pre></pre>	a="utf-8"?>		
	PSTN	g= a 5		
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>	00<		
		erCapability>ITC_value<		
	LLOctet4>			
	TransferMode>00			
	InformationTransf	erRate>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 (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			
			[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		received in a 183 Session Prod	ress with encapsulated			
	ACM/CPG					
Test Purpose		CM called party status no indic				
		opriate pattern is now available				
		sent. The Bearer Capability IE contained in the ACM ATP parameter is mapped into the BearerCapability PSTN XML element in the 183 Session Progress as indicated in				
	table 6.1.1.4-5.					
		d in an ACM called party status				
		STN XML element contains the	BearerCapability value			
	ITC_value					
		d in an CPG Event indicator in-				
		v available 183 Session Progre	ss is sent in the PSTN XML			
		rerCapability value ITC_value				
ISUP Parameter values		ed party status = no indication				
		ed party status = no indication				
		and info available'				
	CPG: ATP contains a Bearer	Capability IE				
SIP Parameter values	183 Session Progress:					
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3					
	CodingStandard>0					
		Capability>ITC_value<				
	BCoctet4					
	TransferMode>00<					
	InformationTransfer	Rate>10000<				
	BCoctet5>					
	Layer1Identification					
	UserInfoLayer1Pro	tocol>00011<				
Comments	0.0					
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			
			(CPG)			
		Apply post test routine	•			
<u> </u>	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	h encapsulated ACM containing	
	a Redirection number, Call dive	ersion information and Generi	ric 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			
	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			
Test Purpose name		ACM containing CDIV information and oBCi inband info available, a 181 Call Is Being Forwarded is sent a P-Early-Media present			
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: <indicating authorization="" early="" media="" of=""></indicating>				
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 rout	ine		

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/Send	ding_of_18x/		
Selection criteria	PICS 6.3.2/5			
Test Purpose name	CPG containing CDIV informati	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			
	Generic notification set to 'Call	is diverted', a 181 Call Is Beir	ng Forwarded is sent	
ISUP Parameter values	CPG: Event Indicator set to Pi	rogress		
	Redirection number			
	Call diversion information	on		
	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/Send	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 P-Early-Media present	tion and oBCi inband info ava	ilable, a 181 is sent a	
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 Progress Redirection number Call diversion information Generic notification = 'Call is diverted'			
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>dia></th></indicat<>	tion of early media>	dia>	
Comments				
Message flows	SIP NNI INVITE 180/183 181 Call Is Being Forwarded	MGCF → ← ← Apply post test routine	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 c	all/Sending_of_200_OK/	
Selection criteria			
Test Purpose name	A 200 OK with encapsu	lated ANM is received a 20	00 OK is sent
Test Purpose	Ensure that on receipt of	of a 200 OK (ANM) the SU	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
	180 Ringing	←	← 180 Ringing (ACM)
	200 OK (INVITE)	←	← 200 OK (INVITE) (ANM)
	ACK	→	→ ACK
	Apply post test routine		

TP number	TP_105_002	Refere	nce	[1], clause 7.2.1
				[2], clause 7.2.3.1.5
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_	200_OK/	
Selection criteria				
Test Purpose name	A 200 OK with encapsu	ulated CON is re	ceived a 200 OK is s	ent
Test Purpose	Ensure that on receipt	of a 200 OK (CC	ON) 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			

TP number	TP_105_003	Reference	[1], clause 7.2.1 [2], clauses 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	Progress indicator received in PSTN XML ProgressIndicator	` ,	lated ANM/CON is mapped into		
Test Purpose		0 OK (INVITE) with encapsula			
	PSTN XML ProgressIndicator	or IE set to value PI_value a, 2 value is set as indicated in ta	ble 6.1.1.5-1		
ISUP Parameter values	ANM/CON: ATP contains a	Progress Indicator IE value P	l_value		
SIP Parameter values	200 OK INVITE:				
	xml version="1.0" encoding</th <th>j="utf-8"?></th> <th></th>	j="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet3				
	CodingStandard>0	0<			
	Location <yyyy></yyyy>				
		ProgressOctet4			
0	ProgressDescription	n>PI_value<			
Comments	OID NAI	11005	OID I		
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) CON		
	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	'000010'
PI_VA_3	Origination address is non-ISDN	'000011'
PI_VA_4	Call has returned to the ISDN	'0000100'
PI_VA_5	Interworking has occurred and has resulted in a telecommunication service change	'0000101'
PI_VA_6	In-band information or an appropriate pattern is now available	'0001000'

TP number	TP_105_004	Reference	[1], clause 7.2.1			
			[2], clauses 7.2.3.1.5,			
			table, 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic o	all/Sending_of_200_OK	1			
Selection criteria	PICS 6.2.1/5					
Test Purpose name			/ITE)with encapsulated ANM/CON is			
		L HighLayerCompatibility				
Test Purpose			th encapsulated ANM/CON and an ATP			
			alue HLC_value, a 200 OK INVITE is sent.			
			set as indicated in table 6.1.1.5-2			
ISUP Parameter values		tains a High layer compa	atibility IE value HLC_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" er</th <th>coding="utf-8"?></th> <th></th>	coding="utf-8"?>				
	PSTN					
	HighLayerCompatib	oility				
	HLOctet3					
	CodingStand					
	Interpretatio					
		nMethod>01<				
	HLOctet4					
Commonto	HighLayerC	haracteristics> HLC_valu	le<			
Comments	CID NINI	MOOF	OID I			
Message flows	SIP NNI	MGCF				
	INVITE	→	→ INVITE (IAM)			
	CASE A					
			400 D: : (AOM)			
	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			
	7.0.0	=				
	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], clauses 7.2.3.1.5,			
			table, 7.2.3.1.5.1			
TSS reference		all/Sending_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name			with encapsulated ANM/CON is mapped			
	into PSTN XML LowLay	yerCompatibility				
Test Purpose	Ensure that on receipt of	of a 200 OK (INVITE) with	encapsulated ANM/CON and an ATP			
			e ITC_value, a 200 OK INVITE is sent.			
			et as indicated in table 6.1.1.5-3			
ISUP Parameter values		tains a Low layer compatib	ility IE value ITC_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" en</th <th>coding="utf-8"?></th> <th></th>	coding="utf-8"?>				
	PSTN					
	LowLayerCompatib	ility>				
	LLOctet3>					
	CodingStand					
		ransferCapability> ITC_va l	ue<			
	LLOctet4>					
	TransferMod					
		InformationTransferRate>10000<				
		LLOctet5>				
		Layer1Identification>01 </th				
0		er1Protocol>ITC_value </th <th></th>				
Comments		oLayer i Protocol element	is absent, the entire 'LLOctet5' element is			
ACKMessage flows	absent SIP NNI	MGCF	SIP-I			
ACKWessage flows		WIGGF				
	INVITE	7	→ INVITE (IAM)			
	CASE A					
		.	(A OO Dia sia si (A OM for s)			
	180 Ringing ← ← 180 Ringing (ACM free)					
	200 OK (INVITE)	←	← 200 OK (INVITE) ANM			
	ACK	- →	→ ACK			
	,	•	2 /1011			
	CASE B					
	200 OK (INVITE)	←	← 200 OK (INVITE) (CON)			
	ACK	÷	→ ACK			
	,	<u>-</u>				
	Apply post test routine					

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], clauses 7.2.3.1.5,			
			table, 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic call/Sen	ding_of_200_OK/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Bearer Capability received in 2	200 OK (INVITE) with encapsu	llated ANM/CON is mapped			
	into PSTN XML BearerCapab					
Test Purpose		0 OK (INVITE) with encapsula				
	containing a Bearer Capability	IE set to value ITC_value, a 2	200 OK INVITE is sent. the			
	PSTN XML BearerCapability					
ISUP Parameter values	ANM/CON: ATP contains a	Bearer Capability IE value ITC	_value			
SIP Parameter values	200 OK INVITE:					
	xml version="1.0" encoding</th <th>="utf-8"?></th> <th></th>	="utf-8"?>				
	PSTN					
	BearerCapability					
	BCoctet3	_				
	CodingStandard>0					
		rCapability> ITC_value <				
	BCoctet4					
	TransferMode>00<					
	InformationTransferRate>10000<					
	BCoctet5>					
	Layer1Identification>01<					
Comments	UserInfoLayer1Protocol>ITC_value<					
Message flows	SIP NNI	MGCF	SIP-I			
wessage nows	INVITE -		INVITE (IAM)			
	IIIVIIE	7	INVITE (IAIVI)			
	CASE A					
			400 Dinging (ACM from)			
	180 Ringing ← 180 Ringing (ACM- free)					
	200 OK (INVITE) ← 200 OK (INVITE) ANM					
	= = = = = = = = = = = = = = = = = = = =					
	ACK →					
	CASE B					
	CASE B 200 OK (INVITE) ← 200 OK (INVI					
	\		200 OK (INVITE) (CON)			
	ACK → Ack					
		Apply post test routine				

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

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

TP number	TP_105_007	Reference	[1], clause 7.2.1	
			[2], clauses 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			
			all the way, a 200 OK INVITE is	
	sent and the PSTN XML Progr		(Call is not end-to-end ISDN:	
	further progress information m			
ISUP Parameter values	ANM/CON: BCi ISDN User	Part indicator = ISDN User P	art 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 -)	NVITE (IAM)	
	CASE A			
	180 Ringing ←	-	 180 Ringing (ACM- free) 	
	200 OK (INVITE)	-	 200 OK (INVITE) ANM 	
	ACK '	· -	•	
	CASE B			
	200 OK (INVITE)	-	200 OK (INVITE) (CON)	
	ACK =		, , , , ,	
		Apply post test routine		
	Apply post test routine			

TP number	TP_105_008	Reference	[1], clause 7.2.1		
			[2], clauses 7.2.3.1.5,		
			table, 7.2.3.1.5.2		
TSS reference	SIP NNI - SIP-I/Basic call/Sen	nding of 200 OK/			
Selection criteria	PICS 6.2.1/5	<u> </u>			
Test Purpose name	Backward call indicator mappe	ed into PSTN XML ProgressI	ndicator value 2		
Test Purpose	Ensure that on receipt of a 20	0 OK (INVITE) with encapsul	ated ANM/CON and the		
	backward call indicator is set	to ISDN User Part used all t	he way and Terminating		
	access non-ISDN, a 200 OK	INVITE is sent and the PSTN	XML ProgressIndicator value is		
	set to 2 (Destination address i	is non-ISDN)			
ISUP Parameter values	ANM/CON: BCi ISDN User	Part indicator = ISDN User F	art used all the way		
	ISDN access in	dicator = Terminating access	non-ISDN		
SIP Parameter values	200 OK INVITE				
	xml version="1.0" encoding</th <th> ="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescriptio	n> 000010 <			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	>	INVITE (IAM)		
	CASE A	_			
	180 Ringing	-	180 Ringing (ACM – free)		
	000 014 (141) (175)		000 014 (14 1) (175) (44 14 1)		
	200 OK (INVITE)				
	ACK -)	ACK		
	040E B				
	CASE B		(0.000		
	200 OK (INVITE)		200 OK (INVITE) (CON)		
	ACK -	-	ACK		
	Apply post test routine				

TP number	TP_105_009	Refere	nce	[1], clause 7.2.1 [2], clauses 7.2.3.1.5,
				table, 7.2.3.1.5.2
TSS reference	SIP NNI - SIP-I/Bas	sic call/Sending_of_	200_OK/	10000
Selection criteria	PICS 6.2.1/5			
Test Purpose name	Backward call indic	ator mapped into PS	STN XML Progress	Indicator value 7
Test Purpose	call indicator is set	to ISDN User Part I	u sed all the w ay a	ated ANM/CON and the backward and Terminating access ISDN , a later value is set to 7
ISUP Parameter values				Part used all the way
		l access indicator =		
SIP Parameter values	200 OK INVITE			
		" encoding="utf-8"?:	>	
	PSTN			
	ProgressIndicat	tor		
	 D	1-14		
	ProgressOc		14 -	
Comments	Flogies	sDescription>00001	115	
Message flows	SIP NNI		MGCF	SIP-I
message nems	INVITE	→		→ INVITE (IAM)
	CASE A			
	180 Ringing	←	•	€ 180 Ringing (ACM)
	200 OK (INVITE)	←	•	200 OK (INVITE) (ANM)
	ACK (ITTIL)	→		ACK
	CASE B			
	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 Test Purpose name Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE SIP Parameter values 200 OK INVITE PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000 Comments	TP number	TP_105_010	Reference		[1], clause 7.2.1
TSS reference SIP NNI - SIP-I/Basic call/Sending_of_200_OK/ Selection criteria PICS 6.2.1/5 Test Purpose name Test Purpose Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value 8 ISUP Parameter values ISUP Parameter values SIP Parameter values Optional backward call indicator in sow available) ANM/CON: Optional backward call indicator In-band information indicator = in-band information or appropriate pattern is now available) ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available SIP Parameter values Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE					
TSS reference SIP NNI - SIP-I/Basic call/Sending_of_200_OK/ Selection criteria Test Purpose name Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Test Purpose Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available) 200 OK INVITE - **Removed ProgressIndicator** ProgressIndicator* ProgressOctet4 ProgressDescription>0001000 Tomments SIP NNI MGCF SIP-I INVITE (IAM) CASE A 180 Ringing **ARREM PROGRESS PROGR					1
Selection criteria Test Purpose name Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE ⟨?xml version="1.0" encoding="utf-8"?> PSTN ProgressOctet4 ProgressOctet4 ProgressDescription>0001000⟨ Comments 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) ← 400 OK (INVITE) CON	TSS reference	SIP NNI - SIP-I/Basic call/S	Sending of 200 OK/		1000, 7.2.0.1.0.2
Test Purpose name Optional backward call indicator mapped into PSTN XML ProgressIndicator value 8 Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values SIP Parameter values SIP Parameter values 200 OK INVITE <pre></pre>	Selection criteria		<u></u>		
Ensure that on receipt of a 200 OK INVITE with encapsulated ANM/CON and the optional backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE <pre> </pre> 200 OK INVITE <a< th=""><th>Test Purpose name</th><th></th><th>cator mapped into PSTN</th><th>XML Pro</th><th>ogressIndicator value 8</th></a<>	Test Purpose name		cator mapped into PSTN	XML Pro	ogressIndicator value 8
backward call indicator is to in-band information or an appropriate pattern is now available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN ProgressOctet4 ProgressDescription>0001000< Comments 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	Test Purpose				
available, a 200 OK INVITE is sent and the PSTN XML ProgressIndicator value is set to 8 (In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE <pre></pre>					
(In-band information or appropriate pattern is now available) ISUP Parameter values ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0001000< Comments 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					
ANM/CON: Optional backward call indicator In-band information indicator = in-band information or an appropriate pattern is now available 200 OK INVITE					
SIP Parameter values 200 OK INVITE	ISUP Parameter values				nation indicator =
SIP Parameter values 200 OK INVITE		in-band infor	mation or an appropriate	pattern i	s now available
PSTN	SIP Parameter values		• • • • • • • • • • • • • • • • • • • •		
PSTN		xml version="1.0" encod</th <th>ling="utf-8"?></th> <th></th> <th></th>	ling="utf-8"?>		
ProgressOctet4			3		
ProgressOctet4		ProgressIndicator			
ProgressDescription>0001000 Comments SIP NNI MGCF SIP-I INVITE → INVITE (IAM) CASE A + + 180 Ringing (ACM) 200 OK (INVITE) ← + 200 OK (INVITE) (ANM) ACK → ACK CASE B 200 OK (INVITE) ← 200 OK (INVITE) CON					
Comments SIP NNI MGCF SIP-I INVITE → → INVITE (IAM) CASE A + + 180 Ringing (ACM) 200 OK (INVITE) ← + 200 OK (INVITE) (ANM) ACK → ACK CASE B 200 OK (INVITE) ← 200 OK (INVITE) CON		ProgressOctet4			
Message flows SIP NNI INVITE → MGCF SIP-I INVITE (IAM) CASE A 180 Ringing ← 180 Ringing (ACM) 200 OK (INVITE) ACK CASE B 200 OK (INVITE) ← 200 OK (INVITE) CON		ProgressDescrip	otion> 0001000 <		
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	Comments				
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	Message flows	SIP NNI	MGCF		SIP-I
180 Ringing ←		INVITE	→	→	INVITE (IAM)
180 Ringing ←					
200 OK (INVITE) ←		CASE A			
ACK → ACK CASE B 200 OK (INVITE) ← 200 OK (INVITE) CON		180 Ringing	←	←	180 Ringing (ACM)
ACK → ACK CASE B 200 OK (INVITE) ← 200 OK (INVITE) CON					
ACK → ACK CASE B 200 OK (INVITE) ← 200 OK (INVITE) CON		200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)
200 OK (INVITE) ← 200 OK (INVITE) CON		ACK	→	→	ACK
200 OK (INVITE) ← 200 OK (INVITE) CON					
		CASE B			
		200 OK (INVITE)	(←	200 OK (INVITE) CON
i i i i i i i i i i i i i i i i i i i				→	,
Apply post test routine			Apply post test r	outine	-

TP number	TP_105_011	Reference	[1], clause 7.2.1			
			[2], clauses 7.2.3.1.5,			
T00 (OID VIVIL OID I/D	II/O II (000 O1//	table, 7.2.3.1.5.1			
TSS reference	SIP NNI - SIP-I/Basic ca	II/Sending_of_200_OK/				
Selection criteria	PICS 6.2.1/5	to 000 OK (ANIM) with one				
Test Purpose name	ATP		capsulated ANM/CON, no BC present in			
Test Purpose	OK INVITE with encapsu	lated ANM/CON, a 200 C	used parameter set to speech in the 200 DK INVITE is sent and a PSTN XML onTransferCapability is set to Speech			
ISUP Parameter values	IAM: TMR = second Information TMR prime = first Inform USI = first BearerCapabion USI prime = second Bearen ANM/CON: Transmiss	ationTransferCapability lity	ch			
SIP Parameter values	INVITE: PSTN XML M xml version="1.0" enc PSTN BearerCapability BCoctet3 CodingStanda InformationTra BearerCapability BCoctet3 CodingStanda InformationTra 200 OK INVITE <?xml version="1.0" enc PSTN BearerCapability BCoctet3 CodingStanda CodingStanda</th <th>IME body oding="utf-8"?> ard>00< ansferCapability>00000< ard>00< ansferCapability>10001< ard>00< ansferCapability>10001<</th> <th></th>	IME body oding="utf-8"?> ard>00< ansferCapability>00000< ard>00< ansferCapability>10001< ard>00< ansferCapability>10001<				
Comments	•••					
Message flows	SIP NNI	MGCF	SIP-I			
oodgo nono	INVITE	→	→ INVITE (IAM)			
	180 Ringing 180 Ringing (ACM – fre					
	200 OK (INVITE) ← 200 OK (INVITE) (ANN ACK					
CASE B 200 OK (INVITE) ← ← 200 OK (CON) ACK → APPly post test routine						

TP number	TP_105_012	Refe	erence		[1], clause 7.2.1		
	11 _100_012	1.0.0			[2], clauses 7.2.3.1.5,		
					table, 7.2.3.1.5.1		
TSS reference	SIP NNI - SIP-I/Basic o	call/Sending	of 200 OK/		1.2.0		
Selection criteria	PICS 6.2.1/5	<u></u>					
Test Purpose name		lz audio in200	OK (ANM) with	encapsi	lated ANM/CON, no BC		
	present in ATP		, or (,,	ocapoc			
Test Purpose		of a Transmis	ssion medium us	ed parar	neter set to 3,1 kHz audio in		
		the 200 OK INVITE with encapsulated ANM/CON, a 200 OK INVITE is sent and a PSTN XML BearerCapability element is present the InformationTransferCapability is set to					
	3,1 kHz audio				, , , , , , , , , , , , , , , , , , , ,		
ISUP Parameter values	IÁM:						
	TMR = second Informa	ationTransfer(Capability				
	TMR prime = first Infor						
	USI = first BearerCapa						
	USI prime = second Be		tv				
	ANM/CON: Transmi			audio			
SIP Parameter values	INVITE: PSTN XML	MIME body					
	xml version="1.0" er</th <th>ncoding="utf-8</th> <th>3"?></th> <th></th> <th></th>	ncoding="utf-8	3"?>				
	PSTN	· ·					
	BearerCapability						
	BCoctet3						
	CodingStan	dard>00<					
	InformationTransferCapability>10000<						
	BearerCapability						
	BCoctet3						
	CodingStandard>00<						
	Information	FransferCapa	bility> 10001 <				
	200 OK INIVITE						
	200 OK INVITE						
	xml version="1.0" encoding="utf-8"?						
	PSTN PoarorCapability						
	BearerCapability						
	BCoctet3						
	CodingStandard>00< InformationTransferCapability>10000<						
	IIIIOIIIIatioii	папыстсара	Dility / 10000				
Comments							
Message flows	SIP NNI		MGCF		SIP-I		
eeeageee	INVITE	→		→	INVITE (IAM)		
	1144112	-		-	114V112 (1/101)		
	CASE A						
	180 Ringing	←		←	180 Ringing (ACM)		
	100 Kinging	•		•	100 Kinging (700M)		
	200 OK (INVITE)	←		←	200 OK INVITE (ANM)		
	ACK	÷		•	200 OK HAVITE (ANAM)		
	AON	7					
	CASE B						
		_		←	200 OK (INVITE) CON		
	200 OK (INVITE)	← →		→	ACK		
	ACK		nly nost tost	_	AUN		
		Ap	pply post test ro	utine			

TP number	TP_105_013	Refe	rence		[1], clause 7.2.1	
					[2], clause 7.2.3.1.5	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_200_OK/					
Selection criteria	PICS 6.2.1/5					
Test Purpose name		Receipt of TMU, BC present in ATP PSTN XML BearerCapability sent in 200 OK				
Test Purpose					meter and in the ATP a Bearer	
					CON, a 200 OK INVITE is sent	
			element is prese	nt the Inf	formationTransferCapability is	
IOUR R		set as indicated in table 6.1.1.5-5				
ISUP Parameter values	IAM:					
	TMR = second Informa					
	TMR prime = first Infor		erCapability			
	USI = first BearerCapa USI prime = second Be		.,			
	ANM/CON: Transmis	eaieiCapabiiii esion madium	y usad ATP Raa	rer Cana	ability IF	
SIP Parameter values	200 OK INVITE	331011 IIICalaili	uscu, ATT Dea	тст Оара	iomity 12	
on randinotor values	xml version="1.0" er</th <th>ncodina="utf-8</th> <th>3"?></th> <th></th> <th></th>	ncodina="utf-8	3"?>			
	PSTN	localing— att c				
	BearerCapability					
	BCoctet3					
	CodingStan	CodingStandard>00<				
			oility>ITC_value	!<		
Comments						
Message flows	SIP NNI		MGCF		SIP-I	
	INVITE	→		→	INVITE (IAM)	
	CASE A					
	180 Ringing	←		←	180 Ringing (ACM)	
	200 OK (INI\/ITE)	_		←	200 OK (INIVITE) (ANIM)	
	200 OK (INVITE) ACK	← →		~	200 OK (INVITE) (ANM)	
	AUN	7				
	CASE B					
	200 OK (INVITE)	←		←	CON	
	ACK	÷		•		
	7.0.1	=	ply post test ro	outine		
	Apply poor tool routino					

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 call/Send	ding_of_REL/			
Selection criteria					
Test Purpose name	BYE received in confirmed dial	logue no Reason header inclu	ded, a BYE with encapsulated		
Test Purpose	present, a BYE with encapsula	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		•			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE → 100 Trying ←		INVITE (IAM)		
	180 Ringing	+	180 Ringing (ACM – free)		
	200 OK (INVITE)		200 OK (INVITE) (ANM)		
	BYE →	· •	BYE (REL)		
	200 OK (BYE)	÷	200 OK (BYE) (RLC)		

TP number	TP_106_002	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 confirmed dia REL is sent	logue Reason header include	d, a BYE with encapsulated			
Test Purpose	Ensure that on receipt of a BY present, a BYE with encapsula	Ensure that on receipt of a BYE request in confirmed dialogue and a Reason header is present, a BYE with encapsulated REL message is sent. The cause indicator is set to the Reason header cause value, the location is set to 'network beyond interworking point'				
ISUP Parameter values	REL: Cause indicator Cause		, , , , , , , , , , , , , , , , , , ,			
		= network beyond interworking	ng point			
SIP Parameter values	BYE: Reason: Q.850; cause =		<u> </u>			
Comments	The Cause_value is a PIXIT p	arameter				
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE 100 Trying	=	INVITE (IAM)			
	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_106_003	Reference	[1], clause 7.2.2 [2], clause 7.2.3.1.7	
TSS reference	SIP NNI - SIP-I/Basic call/Ser	nding_of_REL/	16 37	
Selection criteria				
Test Purpose name	BYE received in early dialogulis sent	e no Reason header included	, a BYE with encapsulated REL	
Test Purpose	Ensure that on receipt of a BYE request in early 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		•	.	
Comments				
Message flows	18x BYE 200 OK (BYE) 487 Request Terminated	MGCF	SIP-I INVITE (IAM) 18x (ACM (no indication or free) BYE (REL) 200 OK (BYE) RLC 487 Request Terminated ACK	

TP number	TP 106 004	Reference	[1], clause 7.2.2		
TT Hamber	11 _100_004	Reference	[2], clause 7.2.3.1.7		
	OLD VIVIL OLD 1/D : II/O	l CPEL /	[[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Se	nding_of_REL/			
Selection criteria					
Test Purpose name	BYE received in early dialogu	ue Reason header included, a	a BYE with encapsulated REL is		
	sent				
Test Purpose	Ensure that on receipt of a B	YE request in early dialogue a	and a Reason header is present,		
	a BYE with encapsulated RE	L message is sent. The cause	e indicator is set to the Reason		
	header cause value, the loca	tion is set to 'network beyond	interworking point'		
ISUP Parameter values	REL: Cause indicator Caus	REL: Cause indicator Cause Value = Cause_value			
	Location	Location = network beyond interworking point			
SIP Parameter values	BYE: Reason: Q.850; cause	= Cause_value			
Comments	The Cause_value is a PIXIT	parameter			
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		
	•		ACK		

TP number	TP_106_005	Reference	[1], clauses 7.2.2, 7.2.3.1.7	
TSS reference	SIP NNI - SIP-I/Basic call/Sending_of_REL/			
Selection criteria				
Test Purpose name	CANCEL received in early dialogue no Reason header included, a CANCEL with encapsulated REL is sent			
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	MGCF	SIP-I	
	INVITE -	→ -	➤ INVITE (IAM)	
	18x	+	ACM 18x (ACM (no indication or free)	
	200 OK (CANCEL) 487 Request Terminated		CANCEL (REL) 200 OK (CANCEL)RLC 487 Request Terminated	

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/Sen	ding_of_REL/		
Selection criteria				
Test Purpose name	CANCEL received in early dial	ogue Reason header included	I, a CANCEL with	
	encapsulated REL is sent	-		
Test Purpose	Ensure that on receipt of a CA	NCEL request in early dialogu	e and a Reason header is	
	present, a CANCEL with enca	psulated REL message is sent	t. The cause indicator is set to	
	the Reason header cause valu	ie, the location is set to 'netwo	rk beyond interworking point'	
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value	·	
	Location = network beyond interworking point			
SIP Parameter values	CANCEL: Reason: Q.850; cau	ise = Cause_value		
Comments	The Cause_value is a PIXIT p	parameter		
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	→	INVITE (IAM)	
	18x ←	· ←	ACM	
			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			ghLayerCompatibility present, a BYE			
	with encapsulated REL is sent containing a High layer compatibility IE					
Test Purpose			ed dialogue and a PSTN XML			
			apsulated REL is sent and an ATP is			
		igh layer compatibility IE. Th	ne value is mapped as indicated in			
	table 6.1.1.6-1					
ISUP Parameter values		compatibility High Layer Ch	aracteristic = HLC_value			
SIP Parameter values	BYE:					
	xml version="1.0" en</th <th>icoding="utf-8"?></th> <th></th>	icoding="utf-8"?>				
	PSTN	****				
	HighLayerCompatib	oility				
	HLOctet3					
		CodingStandard>00<				
	Interpretation>100<					
	PresentationMethod>01<					
	HLOctet4					
Comments	HighLayerCharacteristics>HLC_value<					
Message flows	SIP NNI	MGCF	SIP-I			
wessage nows	INVITE	WIGCF	_			
		-	→ INVITE (IAM)			
	100 Trying	(# 400 Dinning (ACM from)			
	180 Ringing ←					
	ACK	→				
	BYE	→	→ BYE (REL)			
	200 OK (BYE)	+	← 200 ÔK (ŔLC)			

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/Sending_of_REL/			
Selection criteria	PICS 6.2.1/5			
Test Purpose name	BYE received in early dialogue encapsulated REL is sent cont			
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			OLD I	
Message flows	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/Se	nding_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	CANCEL received in early dis	alogue PSTN XML HighLayer	Compatibility present, a		
	CANCEL with encapsulated I	REL is sent containing a High	layer compatibility IE		
Test Purpose		ANCEL request in early dialog			
			ulated REL is sent and an ATP		
		ayer compatibility IE. The value	ue is mapped as indicated in		
	table 6.1.1.6-1				
ISUP Parameter values	REL: ATP High layer compa	atibility High Layer Characteris	stic = 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				
	HighLayerCharact	eristics> HLC_value <			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE)	INVITE (IAM)		
	CANCEL	→	CANCEL (REL)		
	200 OK (CANCEL)	←	* *		
		-	, , , ,		
	ACK 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		
Transo.	11 _100_010		[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	<u>g_</u> 0:_: \c_2			
Test Purpose name		ngue PSTN XML LowLaverCo	omnatibility present a BYF		
Toot i di poco namo		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				
	LowLayerCompatibility is prese	nt, a BYE with encapsulated I	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 compatib	oility Information Transfer Cap	ability = ITC_value		
SIP Parameter values	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)		
	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		
		1.0.0.0.00	[2], clause 7.2.3.1.7		
TSS reference	SIP NNI - SIP-I/Basic call/Send	ling of REL/	[[2], olddoo i .z.o. i		
Selection criteria	PICS 6.2.1/5	···· g ·			
Test Purpose name	BYE received in early dialogue	PSTN XML LowLayerCompat	tibility 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 early dialogue and	a PSTN XML		
	LowLayerCompatibility is prese	ent, a BYE with encapsulated F	REL is sent and an ATP is		
	present containing a Low layer	compatibility IE. The value is a	mapped as indicated in		
	table 6.1.1.6-2				
ISUP Parameter values	REL: ATP Low layer compatib	oility Information Transfer Capa	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	ding_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 r	mapped 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	PSTN			
	LowLayerCompatibility>				
	LLOctet3>				
	CodingStandard>00<				
	InformationTransferCapability>ITC_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		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/Rece	eipt_of_REL/	
Selection criteria			
Test Purpose name	A REL is received, a BYE requ	est is sent	
Test Purpose	Ensure that on receipt of a BYE	with encapsulated REL mes	sage in the confirmed
	dialogue, a BYE is sent. The R	eason header is present and	the cause value is set to the
	received cause value in the RE	L Cause indicator	
ISUP Parameter values	REL: Cause indicator Cause	Value = Cause_value	
SIP Parameter values	BYE: Reason: Q.850; cause	= Cause_value	
Comments	Cause_value is a PIXIT param	eter	
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←	←	100 Trying
	180 Ringing ←	+	180 Ringing (ACM – fee)
	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 REL is received, a BYE requ	est is sent			
Test Purpose	Ensure that on receipt of a BYE with encapsulated REL message in the confirmed dialogue, a BYE is sent. Ensure that if the Reason Header field was not received, then the received ISUP Cause value being received in the encapsulated ISUP REL message shall be mapped into SIP Reason header fields as specified				
ISUP Parameter values	REL: Cause indicator Cause				
SIP Parameter values	BYE: Reason: Q.850; cause =	= Cause_value			
Comments	Cause_value is a PIXIT param	eter			
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	100 Trying ←	←	100 Trying		
	180 Ringing ← 180 Ringing (ACM − fee)				
	200 OK (INVITE) ← 200 OK (INVITE) (ANM)				
	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	eipt_of_REL/	[[2], clause 7.2.0.1.0	
Selection criteria				
Test Purpose name	•	A SIP_final_Response with encapsulated REL 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 encapsulated REL message before an early dialogue is established a SIP final response is sent. The response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response			
ISUP Parameter values	REL: Cause indicator Cause Value = Cause_value			
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; 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_003	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/	[[2], oladeo 7.2.6.116
Selection criteria		•	
Test Purpose name	A SIP_final_Response with enestablished (180), a final response	•	d 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 response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response		
ISUP Parameter values	ACM: BCi Called party status = subscriber free REL: Cause indicator Cause Value = Cause value		
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; cause = Cause_value		
Comments			
Message flows	SIP NNI INVITE 180 Ringing SIP_final_Response ACK		SIP-I → INVITE (IAM) ← 180 Ringing (ACM) ← SIP_final_Response (REL) → ACK (RLC)

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 er established (181), a final response		ved 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 response code is derived from the Cause value received in the REL according the rules described in table 6.1.1.7-1. The cause value of the received REL is present in the Reason header of the sent final response		
ISUP Parameter values	ACM: BCi Called party status Redirection number Call diversion informati Generic notification = 'C REL: Cause indicator Cause	on Call is diverted' Value = Cause_value	
SIP Parameter values	4xx/5xx/6xx: Reason: Q.850; (cause = Cause_value	
Comments	0.5		OID.
Message flows	SIP NNI INVITE 181 Call Is Being Forwarded	MGCF → ←	SIP-I → INVITE (IAM) ← 181 Call Is Being Forwarded (ACM)
	SIP_final_Response	←	← SIP_final_Response (REL)
	ACK	→	→ (ACK) RLC

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	Receipt_of_REL/				
Selection criteria						
Test Purpose name	A SIP_final_Response wit	th encapsulated REL is re	ceived after an early dialogue is			
	established (183), a final i	response is sent				
Test Purpose			early dialogue due to sending a 183			
			se is sent. The response code is derived			
			g the rules described in table 6.1.1.7-1.			
	The cause value of the re-	ceived REL is present in t	he Reason header of the sent final			
	response					
ISUP Parameter values	ACM: BCi Called party st					
		oBCi in-band info available				
	REL: Cause indicator Cause Value = Cause_value					
SIP Parameter values	4xx/5xx/6xx: Reason: Q.8	4xx/5xx/6xx: Reason: Q.850ause = Cause_value				
Comments						
Message flows	SIP NNI	MGC	F 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_006	Reference	[1], clause 7.2.2	
Filamber	17_107_000	Reference	:	
TSS reference	[2], clause 7.2.3.1.8 SIP NNI - SIP-I/Basic call/Receipt_of_REL/			
		ipt_oi_REL/		
Selection criteria	PICS 6.2.1/5	0.5 (1.1.5		
Test Purpose name	An ATP Progress indicator IE p			
	mapped into the PSTN XML Pr			
Test Purpose	Ensure that on receipt of a SIP			
	Progress Indicator IE is presen			
	table 6.1.1.7-5 is sent, a PSTN	XML ProgressIndicator is con	tained and the Progress	
	Description is derived from the	received REL Progress indica	tor as indicated in	
	table 6.1.1.7-2	-		
ISUP Parameter values	REL: ATP Progress Indicator	= PI_value		
SIP Parameter values	4xx/5xx/6xx:			
	xml version="1.0" encoding=</th <th>"utf-8"?></th> <th></th>	"utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet3			
	CodingStandard>00<			
	Location <yyyy></yyyy>			
	ProgressOctet4			
	ProgressDescription	>PI value<		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE →	→	(INVITE) IAM	
	180 Ringing ←	←	180 Ringing (ACM)	
		-		
	SIP_final_Response	4	SIP_final_Response (REL)	
	ACK → ACK (RLC)			

TP number	TP_107_007	Reference	[1], clause 7.2.2		
			[2], clause 7.2.3.1.8		
TSS reference	SIP NNI - SIP-I/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP High Layer Compatibili	ty IE present in a REL is mapp	ped into the PSTN XML		
	HighLayerCompatibility in the s	ent final response			
Test Purpose	Ensure that on receipt of a SIP				
	Layer Compatibility IE is preser				
	table 6.1.1.7-5 is sent, a PSTN				
	HighLayerCharacteristics is de	rived from the received REL H	igh Layer Compatibility as		
	indicated in table 6.1.1.7-3				
ISUP Parameter values	REL: ATP High Layer Compa	tibility = HLC_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod>01<				
	HLOctet4				
	HighLayerCharacter	istics>HLC_value<			
Comments					
Message flows	SIP NNI MGCF SIP-I				
	INVITE →	→	INVITE (IAM)		
	180 Ringing ←				
			5 5 ()		
	SIP final Response	+	SIP_final_Response (REL)		
	ACK →	→	(ACK) RLC		

TD	TD 407 000	Defenses	[14] 700		
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/	Receipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	An ATP Low Layer Compa	atibility IE present in a R	EL is mapped into the PSTN XML		
-	LowLayerCompatibility in t	he sent final response			
Test Purpose	Ensure that on receipt of a	SIP_final_Response w	ith encapsulated REL message and Low		
-	Layer Compatibility IE is p	resent in an ATP, a SIP	final response as indicated in		
			npatibility is contained and the		
			received REL Low Layer Compatibility as		
	indicated in table 6.1.1.7-4		, , ,		
ISUP Parameter values	REL: ATP Low Layer Co	mpatibility = ITC_value			
SIP Parameter values	4xx/5xx/6xx:				
	xml version="1.0" encod</th <th>ding="utf-8"?></th> <th></th>	ding="utf-8"?>			
	PSTN	3			
	LowLayerCompatibility	Lowl averCompatibility>			
	LLOctet3>				
	CodingStandard>00<				
		InformationTransferCapability>ITC_value<			
	LLOctet4>	, =			
	TransferMode>	00<			
		sferRate>10000<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE	→	→ INVITE (IAM)		
	180 Ringing	←	← 180 Ringing (ACM –free)		
	100 10019	-	- 100 Kinging (7.00)		
	SIP final Response	←	← SIP_final_Response (REL)		
	ACK	÷	→ (ACK) RLC		
i	ACK	•			

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

	← SIP_final_Response	← REL
	Status code	Cause parameter
VA_01	404 Not Found	Cause value No. 1 (unallocated (unassigned) number)
VA_02	604 Does not exist anywhere	Cause value No 2 (no route to network)
VA_03	604 Does not exist anywhere	Cause value No 3 (no route to destination)
VA_04	500 Server Internal error	Cause value No. 4 (Send special information tone)
VA_05	404 Not Found	Cause value No. 5 (Misdialled trunk prefix)
VA_06	486 Busy Here	Cause value No. 17 (user busy)
VA_07	480 Temporarily unavailable	Cause value No 18 (no user responding)
VA_08	480 Temporarily unavailable	Cause value No 19 (no answer from the user)
VA_09	480 Temporarily unavailable	Cause value No. 20 (subscriber absent)
VA_10	603 Decline	Cause value No 21 (call rejected), Location = 000 / user (U)
VA_11	403 Forbidden	Cause value No 21 (call rejected), Location not equal 000 / user (U)
VA_12	410 Gone	Cause value No 22 (number changed)
VA_13	410 Gone	Cause value No 23 (Re-route to new destination)
VA_14	433 Anonymity Disallowed	Cause value No. 24 (call rejected due to ACR
_	2.2	supplementary service)
VA_15	483 Too many hops	Cause value No 25 (Exchange routing error)
VA_16	480 Temporarily unavailable	Cause value No 26 (Non-selected user clearing)
VA_17	502 Bad Gateway	Cause value No 27 (destination out of order)
VA_18	484 Address Incomplete	Cause value No. 28 invalid number format
	· ·	(address incomplete)
VA_19	501 Not Implemented	Cause value No 29 (facility rejected)
VA_20	480 Temporarily unavailable	Cause value No 31 (normal unspecified) (class default)
VA_21	486 Busy here	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS possible
VA_22	480 Temporarily unavailable	Cause value No 34 (No circuit/channel available) CCBS indicator = CCBS not possible or absent
VA_23	500 Server Internal error	Cause value No 38 (Network out of order)
VA_24	503 Service Unavailable	Cause value No 41 (Temporary failure)
VA_25	503 Service Unavailable	Cause value No 42 (Switching equipment congestion)
VA_26	500 Server Internal error	Cause value No 43 (Access information discarded)
VA_27	503 Service Unavailable	Cause value No 44 (Requested channel not available)
VA_28	500 Server Internal error	Cause value No 46 (Precedence call blocked)
VA_29	503 Service Unavailable	Cause value No 47 (Resource unavailable (class default))
VA_30	488 Not acceptable here	Cause value No 50 (requested facility no subscribed)
VA_31	603 Decline	Cause value No 55 (Incoming class barred within Closed User Group (CUG))
VA_32	603 Decline	Cause value No 57 (bearer capability not authorized)
VA_33	503 Service Unavailable	Cause value No 58 (bearer capability not presently available)
VA_34	501 Not Implemented	Cause value No 63 (service option not available, unspecified) (class default)
VA_35	500 Server Internal error	Cause value No 65 Bearer capability not implemented
VA_36	501 Not Implemented	Cause value No 69 (Requested facility not implemented)
VA_37	501 Not Implemented	Cause value No 70 (Only restricted digital information capability available)

	← SIP_final_Response	← REL
	Status code	Cause parameter
VA_38	501 Not Implemented	Cause value No 79 (Service or option not implemented(class default))
VA_39	403 Forbidden	Cause value No 87 (User not member of Closed User Group(CUG))
VA_40	606 Not acceptable	Cause value No 88 (incompatible destination)
VA_41	403 Forbidden	Cause value No 90 (Non existing Closed User Group (CUG))
VA_42	500 Server Internal error	Cause value No 91 (invalid transit network selection)
VA_43	500 Server Internal error	Cause value No 95 (invalid message) (class default)
VA_44	501 Not Implemented	Cause value No 97 (Message type non-existent or not implemented)
VA_45	501 Not Implemented	Cause value No 99 (information element/parameter non-existent or not implemented))
VA_46	501 Not Implemented	Cause value No 98 (Message not compatible with call state or message type non-existent or not implemented)
VA_47	480 Temporarily unavailable	Cause value No. 102 (recovery on timer expiry)
VA_48	501 Not Implemented	Cause value No 103 (Non-existent parameter passed on)
VA_49	501 Not Implemented	Cause value No 110 (Message with unrecognized Parameter, discarded)
VA_50	400 Bad Request	Cause value No. 111 (protocol error, unspecified) (class default)
VA_51	500 Server Internal error	Cause value No. 127 (interworking unspecified) (class default)

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

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

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

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

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

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

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

	← SIP_final_Response	← REL
	Status code	Cause parameter
VA_01	480 Temporarily unavailable	Cause value No 19 (no answer from the user)
VA_02	603 Decline	Cause value No 21 (call rejected), Location =
		000 / user (U)
VA_03	501 Not Implemented	Cause value No 63 (service option not available,
		unspecified)
		(class default)
VA_04	480 Temporarily unavailable	Cause value No. 102 (recovery on timer expiry)
VA_05	500 Server Internal error	Cause value No. 127 (interworking unspecified)
		(class default)

6.1.1.8 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 INV	/ITE is sent	
Test Purpose	Ensure that on rece	ipt of an INVITE with encapsula	ated 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	routine

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			
Test Purpose	Request (INR) message is set	Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message containing a calling party number the initial INVITE request is sent		
ISUP Parameter values		er present equest indicator=calling p esponse=calling party add		
SIP Parameter values				
Comments				
Message flows	SIP-I INVITE (IAM) 183 Session Progress (INR) INFO (INF)	MGCF → ←	SIP-NNI → INVITE	
	200 OK (INFO)	← Apply post test routi	← 100 Trying	

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	2.1/12	
Test Purpose name	Information request procedure call is rejected	re not successful, no Calling part	y number in INF received, the
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			
Comments			
Message flows	SIP-I INVITE (IAM) 183 Session Progress (INR) INFO (INF) 4xx/5xx/6xx (REL) ACK	→ ← →	SIP-NNI
		Apply post test routine	

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/	[2], claded 1.2.6.2.1.6
Selection criteria	PICS 6.2.1/11 AND NOT PICS	6.2.1/12	
Test Purpose name	Information request procedure call is continued	not successful, no Calli	ing party number in INF received, the
Test Purpose	Ensure that on receipt of an IAM and no Calling party number is present, an Information Request (INR) message is sent. On receipt of an Information (INF) message and no Calling party number is present, the call is continued		
ISUP Parameter values		•	party address requested ddress not included
SIP Parameter values			
Comments			
Message flows	SIP-I INVITE (IAM) 183 Session Progress (INR)	MGCF → ←	SIP-NNI
	INFO (INF)	→	→ INVITE ← 100 Trying
		Apply post test rou	tine

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_	of_INVITE/		
Selection criteria	PICS 6.2.1/11			
Test Purpose name	Information request procedure	not successful, T 33 is ex	pired	
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/S	sending_of_INVITE/	
Selection criteria			
Test Purpose name	End of address signa in the national number		ne maximum number of digits used
Test Purpose			ed IAM and the called party number national numbering plan, the initial
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	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.1.4 c)
TSS reference	SIP-I-SIP/Basic call/Sending_	of_INVITE/	
Selection criteria			
Test Purpose name	End of address signalling dete	ermined by receipt of sufficient	number of digits to route the
	call to the called party		
Test Purpose	Ensure that on receipt of an IN	IVITE with encapsulated IAM a	nd the called party number
	contains a sufficient number	of digits to route the call to t	he called party, the initial
	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_015	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.1.4	
TSS reference	SIP-I-SIP/Basic call/Sending_c	of_INVITE/		
Selection criteria	PICS 6.2.3/3			
Test Purpose name	A PSTN XML SendingCompleted	teIndication is sent if the end of	the address signalling is	
Test Purpose	Ensure that the end of the address signalling is determined a PSTN XML SendingCompleteIndication is sent			
ISUP Parameter values				
SIP Parameter values	INVITE			
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>		
	PSTN			
	sendingCompleteIndication	n </th <th></th>		
Comments				
Message flows	SIP-I	MGCF	SIP-NNI	
	INVITE (IAM) →	→	INVITE	
		Apply post test 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/Se	ending_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 prir	ne into PSTN XML BearerC	apability element		
Test Purpose	Ensure that on receipt of an	INVITE with encapsulated I	AM that includes a USI and USI		
	Prime parameter then the SI	JT:			
	 Map the USI Prime into 	the second Bearer Capabili	ty stated in the XML		
	BearerCapability element and				
	 The first offered codec i 	s the CLEARMODE codec			
	 Map the USI into the first 	st Bearer Capability stated in	n the XML BearerCapability		
	element and		·		
	 The second offered cod 	ec is a Audio codec			
ISUP Parameter values	IAM: USI=speech or 3,1 kl	Iz audio			
	USI prime=unrestricte	ed digital info with T/A			
	TMR Prime: 64 kBit/s				
	ATP(HLC Video Tele	phony)			
SIP Parameter values	INVITE:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	BearerCapability				
	BCoctet3				
	CodingStandard>00<				
	InformationTransferCapability>mapped from USI<				
	PoprarConshility				
	BearerCapability				
	BCoctet3	00 -			
	CodingStandard>	erCapability>mapped from	LISI primo		
	Illioilliatioillialisi	erCapability>mapped nom	osi primes		
	••••				
	SDP:				
	m=audio <proper numb<="" port="" th=""><th>er> RTP/AVP CLEARMODE</th><th>= 8</th></proper>	er> RTP/AVP CLEARMODE	= 8		
Comments	m-addio sproper perchamb	or itti //tti oee/ttiooe			
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →		→ INVITE		
	(1) (1)		← 100 Trying		
		Apply post test routing			
		pp., poor toot routi			

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	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 network in which the SUT is located and a leading '+' is inserted before the number digits received in the Called party number If the nature of address set to 'International number' a '+' is inserted before the number 			
	digits received in the Calle		is inserted before the number	
ISUP Parameter values		ational (significant) number or	International number	
SIP Parameter values	INVITE: Request URI	(3		
	sip: '+CC' <called digits="" number="" party="">@hostportion; user=phone or</called>			
	tel: '+CC' <called digits="" number="" party=""> if the called party number is a national number sip: '+' <called digits="" number="" party="">@hostportion; user=phone or tel: '+' <called digits="" number="" party=""></called></called></called>			
Comments	ii the called party numb	er is an international numbe r		
	SIP-I	MGCF	SIP-NNI	
Message flows	INVITE (IAM) →	→	INVITE 100 Trying	
		Apply post test routine		

	I		1		
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	I into To header in the sent IN	VITE request		
Test Purpose	Ensure that on receipt of an IN'	VITE with encapsulated IAM t	he 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	ificant) number' then the		
		k in which the SUT is located			
	before the number digits re	eceived in the Called party nur	mber		
	 If the nature of address se 	t to 'International number' a '+	' is inserted before the number		
	digits received in the Calle	d party number			
ISUP Parameter values	IAM: Called party number= N		r International number		
SIP Parameter values	INVITE: To				
	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		•		
	tel: '+' <called pa<="" th=""><th>rty number digits></th><th></th></called>	rty number digits>			
	if the called party numb	er is an international number	er		
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	INVITE (IAM) →	→	INVITE		
	· ´	+	100 Trying		
		Apply post test routine	, 3		

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	ing_of_INVITE/			
Selection criteria	PICS 6.2.4/3				
Test Purpose name	Mapping of TMR speech into S				
Test Purpose	Ensure that on receipt of an IN'	/ITE with encapsulated IAM th	ne TMR speech is mapped		
	into the SDP m-line a a attribut	es			
ISUP Parameter values	IAM: TMR=speech				
SIP Parameter values	INVITE:	·			
	SDP				
	m=audio <port #=""> RTP/AVF</port>	0 [additional codes]			
	a=rtpmap: 0 PCMU/8000				
	OR				
	m=audio <port #=""> RTP/AVF</port>	8 [additional codes]			
	a=rtpmap: 8 PCMA/8000	-			
	OR				
	m=audio <port #=""> RTP/AVP <dynamic-pt> [additional codes]</dynamic-pt></port>				
	a=rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>				
	OR				
	m=audio <port #=""> RTP/AVF</port>	O complete control of the control	des]		
	a=rtpmap: <dynamic-pt> P</dynamic-pt>	CMA/8000			
Comments					
Message flows	SIP-I	MGCF	SIP-NNI		
	IAM →	→	INVITE		
		←	100 Trying		
		Apply post test routine	, 5		

TP number	TP_201_026A	Reference	[1], clause 7.3.1
			[2], clause 7.2.3.2.2.2
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_INVITE/	
Selection criteria	PICS 6.2.4/4		
Test Purpose name	Mapping of TMR 3,1 kHz audio	into SDP	
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAN	If the TMR 3,1 kHz audio is
	mapped into the SDP m-line a	attributes	
ISUP Parameter values	IAM: TMR=TMR_value		
SIP Parameter values	INVITE:		
	SDP		
	m=audio <port #=""> RTP/AV</port>	P 0 [additional codes]	
	a=rtpmap: 0 PCMU/8000		
	OR		
	m=audio <port #=""> RTP/AV</port>	P 8 [additional codes]	
	a=rtpmap: 8 PCMA/8000		
	OR		
	·	P <dynamic-pt> [additional</dynamic-pt>	codes]
	a=rtpmap: <dynamic-pt> I</dynamic-pt>	PCMU/8000	
	OR PTR(A)	D 1 1 DT 1 100	
		P <dynamic-pt> [additional</dynamic-pt>	codes
0	a=rtpmap: <dynamic-pt> I</dynamic-pt>	PCMA/8000	
Comments	OID I		
Message flows	SIP-I	MGCF	SIP-NNI
	IAM →		
		•	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	ding_of_INVITE/		
Selection criteria	PICS 6.2.4/2			
Test Purpose name	Mapping of TMR 64 kBit/s unre	estricted into SDP		
Test Purpose	Ensure that on receipt of an IN		ne TMR 64 kBit/s	
	unrestricted is mapped into the	e SDP m-line a attributes		
ISUP Parameter values	IAM: TMR=64 kBit/s unrestric	cted		
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	
	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/Send	ding_of_INVITE/		
Selection criteria				
Test Purpose name	AMR codec included			
Test Purpose	Ensure that on receipt of an IN	VITE with encapsulated IAM a	n INVITE is sent. If the	
	received IAM contains a TMR :	set to speech or 3,1 kHz audio,	the SDP in the sent INVITE	
	contains an AMR codec			
ISUP Parameter values	IAM: TMR=speech or 3,1 kH	z audio		
SIP Parameter values	INVITE:			
	SDP:			
	m=audio <proper number="" port=""> RTP/AVP Dynamic PT</proper>			
	a = <rtpmap dynamic="" pt=""> AMR</rtpmap>			
Comments				
Message flows	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	SIP-I - SIP NNI/Basic call/Sending_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	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>	VP 0			
	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/(Reference	[2], clause 7.2.3.2.2.2	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding of INIVITE/	[[2], clause 1.2.3.2.2.2	
		uing_oi_invii∈/		
Selection criteria	PICS 6.2.4/7			
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			
	"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 informatio	n		
	USI Information Tra	nsfer Capability		
	3.1 kHz audio	, ,		
	ATP			
	High Layer Compatibility			
	High Layer Characteristics			
	Facsimile Group 2/3			
SIP Parameter values	INVITE:	04P 2/0		
on randingtor values	SDP			
	m=image udptl t38			
	or			
	m=image tcptl t38			
Comments	III—IIIIage Topti (36			
• • • • • • • • • • • • • • • • • • • •	CID I	MGCF	CID MMI	
Message flows	SIP-I		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/Send	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.4/2			
Test Purpose name	Mapping of USI parameter Info	rmation Transfer Capability U	DI	
Test Purpose	Ensure that on receipt of an IN Capability Unrestricted digita			
	CLEARMODE			
ISUP Parameter values	IAM: User service information	า		
	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/Send	ding_of_INVITE/	
Selection criteria			
Test Purpose name	Mapping of Calling party's cate	gory into cpc parameter	
Test Purpose	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 routine	

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

CPC_value	ISUP IAM parameter	SIP Param	eters
	Calling party's category	"cpc" URI parameter in	Accept-Language
		P-Asserted-Identity	
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 He	OP counter parameter, the val	ue is mapped into the
	Max-Forwards header. The val	ue of the Max-Forwards heade	r 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 Identific	er
Test Purpose	For speech and video calls, the		
	indicating the IMS Multimedia	Telephony Communication Ser	vice
ISUP Parameter values			
SIP Parameter values	INVITE: Contact: icsi-ref		
	Accept-Contact:		
	P-Asserted-Service: 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 encapsula	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 Compa			
Test Purpose	Ensure stat on receipt of an IN			
	present containing a High Laye			
	element is present derived acc	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 Laye	r Compatibility IE a PSTN XML	LowLayerCompatibility	
	element is present derived acc	ording the ITC_VA as indicated	d in table 6.1.2.1-5	
ISUP Parameter values	IAM:			
	ATP Low Layer Compatibility			
	InformationTransferCap	ability=ITC_VA		
SIP Parameter values	INVITE:			
	xml version="1.0" encoding=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>		
	PSTN			
	LowLayerCompatibility>			
	LLOctet3>			
	CodingStandard>00	CodingStandard>00<		
	InformationTransferCapability>ITC_VA<			
	LLOctet4>	l · · · · · · · · · · · · · · · · · · ·		
	TransferMode>00<			
	InformationTransfer	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/Sen	SIP-I - SIP NNI/Basic call/Sending_of_INVITE/		
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Mapping of Bearer Capability	Mapping of Bearer Capability IE into PSTN XML BearerCapability		
Test Purpose	Ensure stat on receipt of an IN	IVITE with encapsulate	d IAM and an USI parameter is	
	present ,a PSTN XML Bearer(Capability element is pr	esent derived according the	
	ITC_value as indicated in table	6.1.2.1-6	-	
ISUP Parameter values	IAM:			
	USI			
	Information Transfer Ca	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<			
	InformationTransfer	Capability>ITC_value<	:	
	BCoctet4			
	TransferMode>00<			
	InformationTransfer	Rate>10000<		
Comments		·		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →		→ INVITE	
			← 100 Trying	
	Apply post test routine			

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

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

TP number	TP_201_036	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.2.7		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ding_of_INVITE/			
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 stat on receipt of an IN				
	Information parameter is prese				
	derived according the HLC_val	ue as indicated in table 6.1.2.1	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=</th <th>="utf-8"?></th> <th></th>	="utf-8"?>			
	PSTN				
	HighLayerCompatibility				
	HLOctet3				
	CodingStandard>00<				
	Interpretation>100<				
	PresentationMethod	l>01<			
	HLOctet4				
	HighLayerCharacter	ristics>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/Send	ling_of_INVITE/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of Forward call indicate	tor into PSTN XML ProgressIn	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	ole 6.1.2.1-8		
ISUP Parameter values	IAM: Forward call indicator				
	ISDN User Part indic	cator			
	ISDN access indicat	or			
SIP Parameter values	INVITE:				
	PSTM XML MIME body				
	xml version="1.0" encoding="utf-8"?				
	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	ie 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/Send	ling_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 IN'	VITE with encapsulated IAM ar	nd an ATP parameter is		
	present containing a Progress				
	present derived according the I	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	'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_201_039	Reference	[1], clause 7.3.1		
T00	OID I OID NINI/D: 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 Called Directory Number>; rn= +CC Called party number;npdi To: <+CC Called Directory Number>; rn= +CC Called party number;npdi				
	SIP-	MGCF	SIP NNI		
Message flows	INVITE (IAM) →	Apply post test routine	INVITE 100 Trying		

TP number	TP_201_040	Reference	[1], clause 7.3.1			
TCC vofeveres	CID I CID NINI/Dasia call/Card		[2], clause 7.2.3.2.2A1.2			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ing_ot_in∨i i E/				
Selection criteria	PICS 6.2.2/2	1011 : 0011 :				
Test Purpose name	Number Portability Concatenat					
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Called Directory Number is not present, the Nature of address indicator of the Called party number is					
	set to: "Network routing numbe		ectory number" or "National			
	(significant) number", an INVIT		D (N) ()			
	The userpart of the request U					
	representing the Portability rou	ting number is removed. '+CC	is inserted before the			
	digitstring:		0 1 0 1 1 7			
		equest URI is derived from the				
		esenting the Portability Routing	ng Number are removed from			
	the digitstring. '+CC' is ins					
		s added to the request URI	15 () (
	The userpart of the To header field is derived from the Called Party Number- the prefix					
	representing the Portability routing number is removed. '+CC' is inserted before the					
	digitstring:					
		The rn parameter of the request URI is derived from the Called Party Number. The				
	digits follow the prefix representing the Portability Routing Number are removed from					
	the digitstring. '+CC' is inserted before the digitstring					
	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 (signifi					
SIP Parameter values	INVITE: Request line <+CC Called Party Number>; rn= <+CC Portability Routing					
	Number>;npdi					
	To: <+CC Called Pa	rty Number>; rn= <+CC Porta	ibility Routing Number>;npdi			
Comments						
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		call/Sending_of_INVITE/			
Selection criteria	PICS 6.2.2/3				
Test Purpose name	Number Portability Sep	parate Network Routing Num	nber Addressing 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 us sent The userpart of the request URI is derived from the Called Party Number. '+CC' is inserted before the digitstring: The rn parameter of the request URI is derived from the Network Routing Number. '+CC' is inserted before the digitstring The npdi URI parameter is added to the request URI The userpart of the To header field is derived from the Called Party Number. '+CC' is inserted before the digitstring: The rn parameter of the request URI is derived from the Network Routing Number. '+CC' is inserted before the digitstring:				
ISUP Parameter values	The npdi URI parameter is added to the request URI IAM: Called party number "National (significant) number" Network Routing Number Nature of address indicator: "Network routing number in national (significant) number format" or "National (significant) number" or				
SIP Parameter values	"Network routing number in network specific number format" INVITE: Request line <+CC Called Party Number>; rn= <+CC Network Routing				
Comments					
Message flows	SIP-I INVITE (IAM)	MGCF → Apply post test	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/Send	ding_of_INVITE/			
Selection criteria	PICS 6.2.2/5 AND PICS 6.2.2/5	3			
Test Purpose name	Mapping of ISUP carrier select	ion information into 'cic' URI pa	rameter		
Test Purpose	Ensure that on receipt of an IA				
	value of the Transit Network Se		e cic URI parameter of the		
	Request URI of the sent INVITE request				
ISUP Parameter values	IAM: Transit Network Selection	on			
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 call/ Updating Precondition Information /				
Selection criteria	PICS 7.2.1/3				
Test Purpose name	Update received after IN	VITE v	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)	→	→	INVIT	ΓE
	100 Trying	←	←	100 T	Frying
	183 Session Progress	←	←	183 5	Session Progress
	PRACK	→	→	PRAG	CK
	200 OK (PRACK)	←	+	200 (OK (PRACK)
	UPDATE	→	→	UPD/	ATE
	200 OK(UPDATE)	←	←	200 C	OK(UPDATE)
	,		Apply post test routi	ne	·

TP number	TP 202 002	R	eference	[1], clause 7.3.1			
Ti Hamber	11 _202_002		510101100	[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 unsuccessf	ul final res	ponses to ISUP/BICC	Release messages			
Test Purpose	A 580 Precondition failu	ire respon	se has been received	from the succeeding IMS node as a			
_		response either to the INVITE request, to the UPDATE request or to the PRACK request.					
				eption of the 580 Precondition			
				III release the call with REL			
				t to the SIP-I based circuit-switched			
	core network. The MGC	CF shall en	capsulate the REL m	essage into the 480 Temporarily			
				cuit-switched 3GPP core network.			
ISUP Parameter values	REL: 127 (interworking	g unspecif	ied)				
SIP Parameter values	SIP_Response						
Comments							
Message flows	SIP-I	_	MGCF	SIP NNI			
	INVITE (IAM)	→	→	INVITE			
	100 Trying	(+	100 Trying			
	183 Session Progress	+	+	183 Session Progress			
	Case A	_	_				
	PRACK	→	→	PRACK			
	200 OK (PRACK)	(←	()			
	480 Temporarily	(+	580 Precondition failure			
	unavailable (127-						
	interworking						
	unspecified) (REL)	•	•	A O.K			
	ACK (RLC)	→	→	ACK			
	Case B						
	PRACK	→	→	PRACK			
	200 OK (PRACK)	-		200 OK (PRACK)			
	UPDATE	→	→				
	200 OK(UPDATE)	-	→	200 OK(UPDATE)			
	200 OR(OFDATE)	•	•	200 ON(OFDATE)			
	480 Temporarily	←	←	580 Precondition failure			
	unavailable (127- interworking						
	unspecified) (REL)	→		ACK			
	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/Sending_of_18x with encapsulated ACM/				
Selection criteria					
Test Purpose name	An ACM is sent after a	a 180 Rin	ging was received		
Test Purpose	Ensure that on receipt of a 180 Ringing provisional response without P-Early-Media header, the SUT sends a 180 Ringing with an encapsulated ACM. The Called party's status indicator is set to 'subscriber free'. The ringing tone is sent by the SUT				
ISUP Parameter values	ACM: Called party's s	status ind	icator =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 re	outi	ne

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/Sending_of_18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/9			
Test Purpose name	180 received, a P-Early-Media header is present			
Test Purpose	Ensure that on receipt of a 180 Ringing provisional response with P-Early-Media header			
	does not authorize the backward early media, the SUT sends a 180 Ringing with an			
	encapsulated ACM. The Called party's status indicator is set to 'subscriber free'. The			
	ringing tone is sent by the SUT			
ISUP Parameter values	ACM: Called party's stat	us indicator =subscriber	ree	
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	5 5	
	Apply post test routine			

TP number	TP_203_004	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.4		
TSS reference	SIP-I - SIP NNI/Basic call/S	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/			
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/14				
Test Purpose name	180 received, a P-Early-Media header not authorize early media is present				
Test Purpose	Ensure that on receipt of a 180 Ringing provisional response with P-Early-Media header does not authorize the backward early media, the SUT sends 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.				
ISUP Parameter values	ACM: Called party's status indicator =subscriber free				
SIP Parameter values	P-Early-Media: inactive 180 (ACM)				
Comments	,				
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM)	→	→ INVITE		
			← 100 Trying		
	180 Ringing (ACM - free)	←	← 180 Ringing		
		←	← Early media		
	Apply post test routine				

	P_203_005	Reference	[1], clause 7.3.1		
T00 == f=======	ID I OID NINII/D: II/O		[2], clause 7.2.3.2.4		
	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/				
	PICS 6.2.1/9				
	181 received, a P-Early-Media header authorize early media is present				
	Ensure that on receipt of a 181 Call is Being Forwarded and a P-Early-Media is present				
	authorizing backward early media, a 181 Call is being forwarded or 183 Session Progress				
	with an encapsulated ACM is sent. The Called party's status indicator is set to 'no				
	indication' and an optional backward call indicator is present, the In-band information				
	indicator is set to 'in-band information or appropriate pattern is now available'. The SUT				
	does not generate the awaiting answer indication				
ISUP Parameter values A	ACM: Called party's status indicator =no indication				
	oBCi = in-band information or appropriate pattern is now available				
SIP Parameter values 1	81				
	P-Early-Media: sendonly				
11	81/183 (ACM)				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
l In	NVITE (IAM) →)	NVITE		
		+	100 Trying		
		+	 181 Call is Being Forwarded 		
	ASE A		ő		
	81 Call is Being				
	orwarded				
-	ACM no indication)				
	tom no maloation,				
c	ASE B				
	83 Session Progress				
	ACM no indication)				
	(OW 110 Indication)	+	Early media		
	Apply post test routine				

TP 203 006	Reference	[1], clause 7.3.1	
11 _200_000	11010101100	[2], clause 7.2.3.2.4	
SID-L - SID NINI/Basic ca	II/Sanding of 18v with		
183 received, a P-Early-Media header authorize early media is present			
Ensure that on receipt of a 183 Session Progress and a P-Early-Media header is pre			
authorizing backward early media, a 183 Session Progress with an encapsulated ACM is			
sent. The Called party's status indicator is set to 'no indication' and an optional backward			
call indicator is present, the In-band information indicator is set to 'in-band information or			
appropriate pattern is now available'. The SUT does not generate the awaiting answer			
indication			
ACM: Called party's status indicator =no indication			
oBCi = in-band information or appropriate pattern is now available			
183			
P-Early-Media: sendonly			
183 (ACM)			
SIP-I	MGCF	SIP NNI	
INVITE (IAM)	→	→ INVITE	
		← 100 Trying	
183 Session Progress	←	← 183 Session Progress	
(is in the indication)	←	← Early media	
		•	
	PICS 6.2.1/9 183 received, a P-Early- Ensure that on receipt or authorizing backward ea sent. The Called party's call indicator is present, appropriate pattern is no indication ACM: Called party's sta oBCi = in-band in 183 P-Early-Media: send 183 (ACM)	SIP-I - SIP NNI/Basic call/Sending_of_18x with of PICS 6.2.1/9 183 received, a P-Early-Media header authorized Ensure that on receipt of a 183 Session Progress authorizing backward early media, a 183 Session sent. The Called party's status indicator is set to call indicator is present, the In-band information appropriate pattern is now available. The SUT dindication ACM: Called party's status indicator =no indicated oBCi = in-band information or appropriated 183 P-Early-Media: sendonly 183 (ACM) SIP-I MGCF INVITE (IAM)	

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/S	ending_of_18x with encapsu	lated ACM/	
Selection criteria	PICS 6.2.1/15			
Test Purpose name	MGW plays out early media	associated with the Alert-Inf	fo header	
Test Purpose	Ensure that the MGW plays	a early media associated wi	th the URL in an Alert-Info header	
	contained in a received 180	Ringing response		
ISUP Parameter values				
SIP Parameter values	180: Alert-Info: < Media re	esource URL>		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	INVITE	
		←	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 encapsula	ated ACM/	
Selection criteria	PICS 6.2.1/9 AND PICS 6.2.1/	16		
Test Purpose name	The SUT initiates the sending	of awaiting answer indication	on	
Test Purpose	Ensure that the SUT initiates the sending of awaiting answer indication as indicated in a P-Early-Media received in a 183 Session Progress and the P-Early-Media header authorizes backward early media			
ISUP Parameter values	•			
SIP Parameter values	183: P-Early-Media: sendonly			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
_	INVITE (IAM)	→	→ INVITE← 100 Trying	
	183 Session Progress (ACM)	←	← 183 Session Progress← Early media	
		Apply post test routing	-	

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/Send	ding_of_18x with encapsu	lated ACM/		
Selection criteria					
Test Purpose name	180 received, coding of Backw	ard 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) Echo control device indicator = incoming echo control device included (1) 				
ISUP Parameter values	IAM: Transmission Medium F	Requirement indicator=sp	eech or 3,1 kHz		
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_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	of_18x with encapsu	lated ACM/	
Selection criteria				
Test Purpose name	181 received, coding of Backward ca			
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received. Ensure that on receipt of a 181 Call is Being forwarded response, a 181 Being Forwarded or 183 Session Progress with encapsulated ACM is sent and the Backward call indicator is set to the following values: • Charge indicator = charge (10) • Called party's status indicator = no indication (00) • Called party's category indicator = no indication (00) • End-to-end method indicator = no end-to-end method available (00) • Interworking indicator = interworking encountered (1) • End-to-end information indicator = no end-to-end information available (0) • ISDN user part/BICC indicator = ISDN user part not used all the way (0) • ISDN access indicator = terminating access non-ISDN (0) • Echo control device indicator = incoming echo control device included (1)			
ISUP Parameter values	IAM: Transmission Medium Requir	ement indicator=spe	eech 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)	MGCF →	SIP NNI → INVITE ← 100 Trying ← 181 Call is Being forwarded	
	CASE B 183 Session Progress (ACM)	← ply post test routin	ne	

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/Se	nding_of_18x with encaps	ulated ACM/		
Selection criteria	PICS 6.2.1/9 AND NOT PICS	6.2.1/18			
Test Purpose name	183 received, coding of Back	ward call indicator in ACM	TMR speech or 3,1 kHz audio		
Test Purpose			um Requirement indicator=speech		
			ession Progress response with		
	P-Early-Media header, a 183	Session Progress with an	encapsulated ACM is sent and the		
	Backward call indicator is set	to the following values:			
	 Charge indicator = charge 				
	 Called party's status indi 	cator = no indication (00)			
		ndicator = no indication (0			
	 End-to-end method indic 	ator = no end-to-end meth	nod available (00)		
	 Interworking indicator = 1 	nterworking encountered	(1)		
		ndicator = no end-to-end i			
	 ISDN user part/BICC indicator = ISDN user part not used all the way (0) 				
	 ISDN access indicator = terminating access non-ISDN (0) 				
	Echo control device indicator = incoming echo control device included (1)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
SIP Parameter values	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 rout	ine		

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	ated 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 TI	MR 64 kBit/s unrestricted	
Test Purpose	INVITE with encapsulated IAM	with Transmission Medium	Requirement indicator=64 kBit/s	
			ging response, a 180 Ringing with	
	an encapsulated ACM is sent a	and the Backward call indic	ator is set to the following values:	
	 Charge indicator = charge 	(10)		
	 Called party's status indicated 	ator = subscriber free (01)		
	 Called party's category ind 	licator = no indication (00)		
	 End-to-end method indicat 	or = no end-to-end method	l available (00)	
	 Interworking indicator = int 	erworking encountered (1)		
	 End-to-end information indicator = no end-to-end information available (0) 			
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)			
	 ISDN access indicator = terminating access non-ISDN (0) 			
	Echo control device indicator = incoming echo control device not included (0)			
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted			
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	NVITE	
		← ·	100 Trying	
	180 Ringing (ACM) ←	← ·	180 Ringing	
	Apply post test routine			

TP number	TP 203 015	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 6.2.4/2 AND NOT PICS 6.2.1/18				
Test Purpose name	181 received, coding of Backward cal	I indicator in ACM TMR	64 kBit/s unrestricted		
Test Purpose	INVITE with encapsulated IAM with T	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		lated ACM is sent and the		
	Backward call indicator is set to the fo	llowing values:			
	 Charge indicator = charge (10) 				
	 Called party's status indicator = n 	, ,			
	 Called party's category indicator : 				
	 End-to-end method indicator = no 		ailable (00)		
	 Interworking indicator = interwork 	• • • • • • • • • • • • • • • • • • • •			
	 End-to-end information indicator 		\ <i>'</i>		
	• ISDN user part/BICC indicator =				
	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 Require	ment indicator=64 kBit/	s unrestricted		
SIP Parameter values	181/183 (ACM):				
0	Backward call indicator				
Comments Message flows	SIP-I	MGCF	SIP NNI		
Message flows	IAM		INVITE		
	IAW	=	100 Trying		
	← 181 Call is Being forwarded CASE A				
	181 Call is Being forwarded (ACM) ←				
	To real is being forwarded (ACIVI)	•			
	CASE B				
	183 Session Progress (ACM)	←			
	Apply post test routine				
	7	., post toot routino			

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/Sending_of_18x with encapsulated ACM/				
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18 AND PICS 6.2.1	/9		
Test Purpose name	183 received, coding of Backw	ard call indicator in ACM	TMR 64 kBit/s unrestricted		
Test Purpose	·		um Requirement indicator=64 kBit/s		
			ession Progress response, a 183		
		apsulated ACM is sent an	d the Backward call indicator is set		
	to the following values:				
	 Charge indicator = charge 	(10)			
	 Called party's status indicate 				
	 Called party's category inc 	dicator = no indication (00	0)		
	 End-to-end method indica 	tor = no end-to-end meth	od available (00)		
	 Interworking indicator = in 	terworking encountered (1)		
	• End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	 ISDN access indicator = terminating access non-ISDN (0) 				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values	183: P-Early-Media: 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 routi	ne		

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	lated 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	with Transmission Mediu	m Requirement indicator=64 kBit/s		
	unrestricted received. Ensure t	hat on receipt of a 180 Ri	nging response, a 180 Ringing with		
	an encapsulated ACM is sent a	and the Backward call indi	icator 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 indica 	tor = no end-to-end metho	od available (00)		
	 Interworking indicator = ne 		` ,		
	ISDN user part/BICC indicator = ISDN user part used all the way (1)				
	ISDN access indicator = terminating access ISDN (1)				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	180 Ringing (ACM) ←	←	180 Ringing		
		Apply post test routing	ne		

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 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 Progress with encapsulated ACM is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = no indication (00) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = no interworking encountered (0) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part used all the way (1) ISDN access indicator = terminating access ISDN (1) Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium R	equirement in	idicator=64 kBit/s	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	
	CASE A				
	181 Call is Being forwarded (AC	CM) ←			
	CASE B				
	183 Session Progress (ACM)	←			
	(10m)	Apply post	test routine		

TP number	TP_203_019	Reference	[1], clause 7.3.1			
I Hamber	11 _203_019	Reference	[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 6.2.4/2 AND PICS 6.2.1/1		ated AOW/			
Test Purpose name			MP 64 kRit/s unrestricted			
Test Purpose		183 received, coding of Backward call indicator in ACM TMR 64 kBit/s unrestricted INVITE with encapsulated IAM with Transmission Medium Requirement indicator=64 kBit/s				
rest Fulpose	unrestricted received. Ensure the					
			the Backward call indicator is set			
	to the following values:	District ACIVI IS Serit and	the backward call indicator is set			
	 Charge indicator = charge 	(10)				
	 Charge indicator – charge Called party's status indicator 					
	Called party's category indi Tad to and mathed indicate		d available (00)			
	End-to-end method indicate Interpreting indicates. The					
		• Interworking indicator = no interworking encountered (0)				
	End-to-end information indicator = no end-to-end information available (0) (0)					
	ISDN user part/BICC indicator = ISDN user part used all the way (1)					
	• ISDN access indicator = terminating access ISDN (1)					
	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted					
SIP Parameter values	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			
	Apply post test routine					

TP number	TP_203_020	Reference	[1], clause 7.3.1		
TCC materians	CID I CID NINI/Dania anii/Cana	diagraph 40 white an approx	[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Send	aing_or_rex with encapsu	lated ACIVI/		
Selection criteria					
Test Purpose name	180 received, coding of Backw				
Test Purpose	•		m Requirement indicator=3,1 kHz		
			ived. Ensure that on receipt of a		
	180 Ringing response, a 180 R	Ringing with an encapsulat	ted 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 	dicator = no indication (00))		
	 End-to-end method indica 	tor = no end-to-end metho	od available (00)		
	 Interworking indicator = in 		` '		
	End-to-end information indicator = no end-to-end information available (0)				
	ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	ISDN access indicator = terminating access non-ISDN (0)				
	Echo control device indicator = incoming echo control device not included (0)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=3,1 kHz				
	High Layer Compatibility= Facsimile Group 2/3				
SIP Parameter values	gajo: copatio	,			
Comments					
Message flows	SIP-I	MGCF	ISUP		
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	180 Ringing (ACM) ←	←	180 Ringing		
		Apply post test routing			

TP number	TP_203_021	Reference	[1], clause 7.3.1			
Tr Hulliber	11 _203_021	Vererence	[2], clause 7.3.1			
TSS reference	SIP-I - SIP NNI/Basic call/Sendi	ng of 18v with encapsul				
Selection criteria	Sir -i - Sir MM/Basic call/Seriul	ig_oi_rox with encapsul	ateu ACIVI/			
Test Purpose name	181 received coding of Backwa	rd call indicator in ACM E	H.C. "Eacsimile Group 2/3"			
Test Purpose		181 received, coding of Backward call indicator in ACM HLC "Facsimile Group 2/3".				
rest Fulpose		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				
	181 Call is Being forwarded resp					
	with encapsulated ACM is sent a					
	values:	and the Backward can me	dicator is set to the following			
	 Charge indicator = charge (10)				
	 Called party's status indicate 					
	 Called party's category indicates 					
	 End-to-end method indicate 					
	 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 user part/bloc 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					
loor rarameter values	High Layer Compatibility= Facsimile Group 2/3					
SIP Parameter values	181/183 (ACM):	- 1 acsimile Group 2/6				
on rarameter values	Backward call indicator					
Comments	Backward can indicator					
Message flows	SIP-I	MGCF	SIP NNI			
3	INVITE (IAM)	→	→ INVITE			
	,		← 100 Trying			
	← 181 Call is Being forwarded					
	CASE A					
	181 Call is Being forwarded (ACM) ←					
	3 2 2 3	,				
	CASE B					
	183 Session Progress (ACM) ←					
	Apply post test routine					

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/Sending_of_18x with encapsulated ACM/					
Selection criteria	PICS 6.2.1/9					
Test Purpose name	183 received, coding of Backwa	ard call indicator in ACM HLC	Facsimile Group 2/3".			
Test Purpose	INVITE with encapsulated IAM with Transmission Medium Requirement indicator=3,1 kHz					
	and High Layer Compatibility=					
	183 Session Progress respons	e, a 183 Session Progress wi	th an encapsulated ACM is			
	sent and the Backward call indi	cator is set to the following va	alues:			
	 Charge indicator = charge 	(10)				
	 Called party's status indicate 	tor = no indication (00)				
	 Called party's category ind 					
	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 use	` '			
	•	rminating access non-ISDN (• ` '			
	Echo control device indicator = incoming echo control device not included (0)					
ISUP Parameter values		Requirement indicator=3,1 kH				
	High Layer Compatibility		_			
SIP Parameter values	ing.: 2ayo: companium					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
3	INVITE (IAM)	→	→ INVITE			
	,		← 100 Trying			
	183 Session Progress (ACM) ←					
	Apply post test routine					

TP number	TP_203_023	Reference	[1], clause 7.3.1			
11 Hamber	11 _200_020	Kelerence	[2], clause 7.2.3.2.5.1			
TCC reference	SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/					
TSS reference		ill/Sending_of_18x with 6	encapsulated ACIVI/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML I	ProgressIndicator 1 into	Backward call indicator in ACM			
Test Purpose	Ensure that on receipt of	f a 180 Ringing and the	PSTN XML ProgressIndicator is present,			
			icator present in the encapsulated ACM:			
	ISDN User Part indicato	r	·			
	 ISDN User Part not 	used all the way (0)				
ISUP Parameter values	ACM: ISDN User Part in	ndicator				
	ISDN User Pa	ISDN User Part not used all the way				
SIP Parameter values	180:					
	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments	Progress Information: 'C	all is not end-to-end ISD	N: further call progress information may			
	be available in-band'					
Message flows	SIP-I					
	INVITE (IAM)	→	→ INVITE			
	, ,		← 100 Trying			
	180 Ringing (ACM)	←	← 180 Ringing			
	Apply post test routine					
	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/Send	ling_of_18x with encapsul	ated ACM/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 180 into B	ackward call indicator in ACM		
Test Purpose			ML ProgressIndicator is present,		
	the value 2 is mapped into the	Backward call indicator pr	esent in the encapsulated ACM:		
	ISDN User Part indicator				
	 ISDN User Part used all 	the way (1)			
	ISDN access indicator				
	 Terminating access non 	-ISDN (0)			
ISUP Parameter values	ACM: ISDN User Part indicator				
	ISDN User Part used all the way				
	ISDN access indicator				
	Terminating access non-ISDN				
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000010<				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	→	INVITE		
		-	100 Trying		
	180 Ringing (ACM) ←	-	180 Ringing		
		Apply post test routin	e		

TP number TSS reference	TP_203_025		Reference			
TSS reference					[1], clause 7.3.1	
ISS reference		11.0			[2], clause 7.2.3.2.5.1	
		SIP-I - SIP NNI/Basic call/Sending_of_18x with encapsulated ACM/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name					ckward call indicator in ACM	
Test Purpose					L ProgressIndicator is present,	
			Backward call indic	ator pres	sent in the encapsulated ACM:	
	ISDN User Part indica	tor				
	 ISDN User Par 	t used all	the way (1)			
	ISDN access indicator	•				
	 Terminating ac 	cess ISD	N (1)			
	Interworking indicator					
	 no interworking 	no interworking encountered (0)				
ISUP Parameter values	ACM: ISDN User Part indicator					
	ISDN User	Part use	ed all the way			
	ISDN access indicator					
	Terminating access ISDN					
	Interworking indicator					
	no interworking encountered					
SIP Parameter values	180:					
	xml version="1.0" e</th <th>ncoding=</th> <th>:"utf-8"?></th> <th></th> <th></th>	ncoding=	:"utf-8"?>			
	PSTN					
	ProgressIndicator					
	ProgressOctet					
	ProgressDe	escription	>0000111<			
Comments	Progress Information: value not specified. Meaning 'terminating user is ISDN'					
Message flows	SIP-I		MGCF		SIP NNI	
	INVITE (IAM)	→		→ II	NVITE	
	, ,			← 1	00 Trying	
	180 Ringing (ACM)	←			80 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/Send	ling_of_18x with encapsu	lated 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 values	In-band information				
	in-band information or an appropriate pattern is now available				
SIP Parameter values	180:				
	xml version="1.0" encoding="utf-8"? PSTN				
	ProgressIndicator				
	ProgressOctet4	. 0001000 -			
Comments	ProgressDescription		ata nattarn ia naw available!		
	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		
	1		[2], clause 7.2.3.2.5.1		
TSS reference	SIP-I - SIP NNI/Basic call/Sendir	g_of_18x with encapsulated	I S A		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/9	y 			
Test Purpose name	Mapping of PSTN XML Progress	Indicator 1 in 183 into Backv	vard call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183 S	ession Progress and the PS	TN XML ProgressIndicator is		
	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 used all the way				
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 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	Session Progress and the PS	TN XML ProgressIndicator is		
	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 all t 	he way (1)			
	ISDN access indicator				
	Terminating access non-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				
	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)	→	→ INVITE		
			← 100 Trying		
	183 Session Progress (ACM)	←	← 183 Session Progress		
		Apply post test routine	-		

TP number	TP 203 029	Reference	[1], clause 7.3.1			
ir number	TF_203_029	Keierence	[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			ed ACIVI/			
	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					
		i into the Backward call indica	ator present in the encapsulated			
	ACM:					
	ISDN User Part indicator	1.41				
	ISDN User Part used all ISDN assessing diseases.	i the way (1)				
	ISDN access indicator	N1 (4)				
	Terminating access ISE Intermediate in disease.	JN (1)				
	Interworking indicator					
IOUR B	no interworking encoun					
ISUP Parameter values		ACM: ISDN User Part indicator				
		ISDN User Part used all the way				
	ISDN access indicator					
	Terminating access non-ISDN					
	Interworking indicator					
CID Deserve deservelos e	no interworking encountered 183: P-Early-Media: sendonly					
SIP Parameter values						
	xml version="1.0" encoding=</th <th>="utt-8"?></th> <th></th>	="utt-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4	> 0000111 -				
Comments	Progress Description		ting upor in ISDNI'			
	Progress Information: value no		SIP NNI			
Message flows		MGCF →	→ INVITE			
	INVITE (IAM)	7				
	400 Caraina Danaman (A CNA)		← 100 Trying			
	183 Session Progress (ACM)	Annly most tost resiting	← 183 Session Progress			
		Apply post test routine				

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/Send	ling_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				
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 indicator				
	 in-band information or an appropriate pattern is now available 				
ISUP Parameter values	ACM: Optional backward call indicators				
	In-band information indicator				
	in-band information or an appropriate pattern is now available				
SIP Parameter values	183: P-Early-Media: sendonly				
	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	ling_of_18x with encapsulate	d ACM/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Media hea	der in 183 into Optional backv	vard call indicator in ACM		
Test Purpose	Ensure that on receipt of a 183				
	authorizing backward early me	dia is mapped into the Backw	ard 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	In-band information indicator			
	in-band information or an appropriate pattern is now available				
SIP Parameter values	183: P-Early-Media: sendonl	у			
Comments	Progress Information 'In-band i	nformation 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_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 backw	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 indic	ator 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 information 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/Send	ling_of_18x with encapsulated	ACM/	
Selection criteria	PICS 6.2.1/5	· · ·		
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 o	containing 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			
Comments	Progress Information: 'Call is no	ot 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			
	180 Ringing (ACM) ← ← 180 Ringing			
		Apply post test routine		

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	ling_of_18x with encapsula	ted ACM/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 180 into the	Access Transport Parameter			
Test Purpose	Ensure that on receipt of a 180					
	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='0 	000010'				
ISUP Parameter values	ACM: Access Transport					
	Progress Indicator	Progress Indicator				
	Progress Description='0000010'					
SIP Parameter values	180:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
_	ProgressDescription					
Comments	Progress Information: 'Destination address is non-ISDN'					
Message flows	SIP-I MGCF SIP NNI					
	INVITE (IAM) →	→	NVITE			
			00 Trying			
	180 Ringing (ACM) ←	← 1	80 Ringing			
	Apply post test routine					

TD mumb on	TD 000 005	Deference	[4] -1 7.0.4	
TP number	TP_203_035	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.5.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsulated	ACM/	
Selection criteria	PICS 6.2.1/5			
Test Purpose name	PSTN XML ProgressIndicator	7 in 180 is not mapped into the	Access Transport Parameter	
Test Purpose	Ensure that on receipt of a 180	Ringing and the PSTN XML F	ProgressIndicator is present,	
	the value 7 is not mapped into	the Access Transport Parame	ter in the encapsulated ACM	
ISUP Parameter values	ACM: No Access Transport P	arameter present		
SIP Parameter values	180:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000111<			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→ INV	ITE	
		← 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			ne Access Transport Parameter	
Test Purpose			ML ProgressIndicator is present,	
	the value 8 is mapped into the		eter containing the Progress	
	Indicator value 8 in the encaps	ulated ACM:		
	Access Transport Parameter			
	Progress Indicator			
	 Progress Description 	n='0001000'		
ISUP Parameter values	ACM: Access Transport			
	Progress Indicator			
	Progress Description='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 routine			

TP number	TP_203_037	Reference	[1], clause 7.3.1			
	11 _200_007	1010101100	[2], clause 7.2.3.2.5.4			
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling of 18x with encapsu				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/5		inatou / tolvii			
Test Purpose name			he Access Transport Parameter			
Test Purpose			ne P-Early-Media header and PSTN			
	XML ProgressIndicator is prese					
	Parameter containing the Prog					
	Access Transport Parameter	. ooo malaala valaa i mi				
	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					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
Comments	Progress Information: 'Call is not end-to-end ISDN: further call progress information may					
	be available in-band'					
Message flows	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_038	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.5.4		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_18x with encapsu	ılated ACM/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1/	/9			
Test Purpose name	Mapping of PSTN XML Progre	essIndicator 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	gress Indicator value 2 in t	he encapsulated ACM:		
	Access Transport Parameter				
	Progress Indicator				
	 Progress Description 	n='0000010'			
ISUP Parameter values	ACM: Access Transport				
	Progress Indicator				
	Progress Descr	iption='0000010'			
SIP Parameter values	183: P-Early-Media: sendonly				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription				
Comments	Progress Information: 'Destination address is non-ISDN'				
Message flows	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 encapsulate	ed 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 th	ne Access Transport Parameter		
Test Purpose	Ensure that on receipt of a 183 S				
	present, the value 7 is not mappe	ed into the Access Transpo	rt Parameter in the		
	encapsulated ACM				
ISUP Parameter values	ACM: No Access Transport Par	ACM: No Access Transport Parameter present			
SIP Parameter values	183: P-Early-Media: sendonly				
	<pre><?xml version="1.0" encoding="0"</pre></pre>	xml version="1.0" encoding="utf-8"?			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription>0000111<				
Comments	Progress Information: value not	specified. Meaning 'termina	ting 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				

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	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 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			
	Parameter containing the Progr	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 Description='0001000'			
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			

6.1.2.4 Sending of the Call Progress message (CPG)

TP number	TP_204_002		Reference	[1], clause 7.3.1
				[2], clause 7.2.3.2.6
TSS reference	SIP-I - SIP NNI/Basic ca	all/Send	ing_of_CPG in encapsu	lated 18x message/
Selection criteria	PICS 6.2.1/9			
Test Purpose name	181 received, CPG is se	ent		
Test Purpose	Ensure that on receipt of a 181 Call is Being Forwarded a 181 Call is Being Forwarded with encapsulated PG is sent. The Event information parameter in the CPG is set to 'progress'			
ISUP Parameter values	CPG: Event indication=	progres	SS	
SIP Parameter values	181: P-Early-Media: se	endonly	1	
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 call/Se	nding_of_CPG in encapsu	lated 18x message/			
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is not authorized	if no P-Early-Media heade	er is present in the 180			
Test Purpose	the 180 Ringing contains a P	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 header 180: P-Early-Media: inactiv					
Comments	j					
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		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/Sen	ding_of_CPG in encapsu	lated 18x message/		
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Early media is not authorized 180	if P-Early-Media header d	oes 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: inactive)			
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 204 005	Refe	erence	[1], clause 7.3.1	
				[2], clause 7.2.3.2.6	
TSS reference	SIP-I - SIP NNI/Basic ca	all/Sending_o	of_CPG in encapsu	ulated 18x message/	
Selection criteria	PICS 6.2.1/9	-	•	-	
Test Purpose name	Early media is authorize	ed if P-Early-	Media header auth	orize 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)	←	←	180 Ringing	
	early media early media				
	Apply post test routine				

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 ca	II/Send	ing_of_CPG in encapsu	lated 18x message/	
Selection criteria	PICS 6.2.1/14				
Test Purpose name	The SUT has the knowled answer indication is not			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 <i>early media</i>	
			Apply post test rout	ine	

TD	TD 004 007	D - f		[41 - 7.0.4		
TP number	TP_204_007	Refer	ence	[1], clause 7.3.1		
				[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic ca	II/Sending_of	_CPG in encapsul	ated 18x message/		
Selection criteria	PICS 6.2.1/9					
Test Purpose name	Early media is authorized	d if P-Early-N	ledia header autho	orize early media in the 183		
Test Purpose				Session Progress with an		
	encapsulated CPG is se	nt. If the 183	Session Progress	contains a P-Early-Media header		
	authorizing early media.	the SUT tern	ninates sending of	awaiting answer indication and		
	connects through the ea			arraining arrotter marsaner arra		
ISUP Parameter values	•	•				
SIP Parameter values	183: P-Early-Media: se	endonly				
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	→	→	INVITE		
	180 Ringing	(←	180 Ringing		
	(ACM – free)					
	,	←	←	183 Session Progress		
	(CPG)					
	early media early media					
		App	ly post test routii	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	ing of CPG in encapsulated			
Selection criteria	PICS 6.2.1/9	<u> </u>			
Test Purpose name	Early media is authorized if P-E	arly-Media header authorize	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)	+	180 Ringing		
	CASE A		181 Call is Being Forwarded		
	183 Session Progress (CPG)		J		
	CASE B				
	181 Call is Being Forwarded (CPG)	←			
	early media		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/Sen	ding_of_CPG in encapsulat	ed 18x message/				
Selection criteria	PICS 6.2.1/9						
Test Purpose name	The SUT change the authoriza	ation of early media as indic	ated in the P-Early-Media				
	received in 180						
Test Purpose	Ensure that the SUT terminate						
			authorization in the received 180				
	Ringing response and early m	edia was not authorized bef	ore				
ISUP Parameter values							
SIP Parameter values	183: P-Early-Media: inactive	•					
	180: P-Early-Media: sendon	ly					
Comments							
Message flows	SIP-I	MGCF	SIP NN				
	INVITE(IAM)	→	→ INVITE				
	183 Session Progress(ACM) ←						
	ringing tone						
	180 Ringing(CPG)	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	ending_of_CPG in enca	ipsulated 18x message/				
Selection criteria	PICS 6.2.1/9						
Test Purpose name	The SUT change the author received in 180	ization of early media a	s indicated in the P-Early-Media				
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) →		→ INVITE				
	183 Session Progress (ACM – no indication)		← 183 Session Progress				
	early media						
	180 Ringing (CPG) ←		← 180 Ringing				
	ringing tone						
		Apply post test routine					

TP number	TP_204_011	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 encapsul	lated 18x message/	
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.	1/9		
Test Purpose name	Mapping of PSTN XML Prog	essIndicator 1 in 183 into	ATP in the CPG	
Test Purpose	Ensure that on receipt of a P			
	Progress, a 183 Session Pro	gress with encapsulated C	PG is sent and an Access	
	Transport Parameter is prese	nt containing a Progress In	ndicator #1	
ISUP Parameter values	CPG: Access Transport			
	Progress Indicator			
	Progress Desc	ription='0000001'		
SIP Parameter values	183: P-Early-Media: sendonly			
	xml version="1.0" encodin</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescripti	on> 0000001 <		
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_012	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6.1		
TSS reference	SIP-I - SIP NNI/Basic call/S	ending_of_CPG in encapsul	lated 18x message/		
Selection criteria	PICS 6.2.1/5 AND PICS 6.2	2.1/9			
Test Purpose name	Mapping of PSTN XML Pro	gressIndicator 2 in 183 into /	ATP in the CPG		
Test Purpose		PSTN XML ProgressIndicate			
	Progress, a 183 Session Pr	ogress with encapsulated C	PG is sent and an Access		
	Transport Parameter is pre-	sent containing a Progress Ir	ndicator #2		
ISUP Parameter values	CPG: Access Transport				
	Progress Indicate	or			
	Progress Des	scription='0000010'			
SIP Parameter values	183: P-Early-Media: sendonly				
	xml version="1.0" encodi</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescrip	tion> 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		

TD	TD 004 040	Deference	[4] 704				
TP number	TP_204_013	Reference	[1], clause 7.3.1				
		<u> </u>	[2], clause 7.2.3.2.6				
TSS reference	SIP-I - SIP NNI/Basic call/Se		ated 18x message/				
Selection criteria	PICS 6.2.1/5 AND PICS 6.2.1						
Test Purpose name	Mapping of PSTN XML Progr	essIndicator 4 in 183 into <i>F</i>	ATP in the CPG				
Test Purpose	Ensure that on receipt of a PS						
	Progress, a 183 Session Progress						
	Transport Parameter is prese	nt containing a Progress Ir	ndicator #4				
ISUP Parameter values	CPG: Access Transport						
	Progress Indicator						
	Progress Desc	ription='0000100'					
SIP Parameter values	180:						
	xml version="1.0" encoding</th <th>n="utf-8"?></th> <th></th>	n="utf-8"?>					
	PSTN	•					
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription	on> 0000001 <					
	or						
	ProgressDescription	ProgressDescription>0000010<					
	183: P-Early-Media: sendonly						
	xml version="1.0" encoding</th <th colspan="5"><pre><?xml version="1.0" encoding="utf-8"?></pre></th>	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN	•					
	ProgressIndicator						
	ProgressOctet4						
	ProgressDescription	ProgressDescription>0000100<					
Comments							
Message flows	SIP-I	SIP-I MGCF SIP NNI					
	INVITE (IAM) →	→	INVITE				
	180 Ringing (ACM) ←	+	180 Ringing				
	183 Session Progress ←						
	(CPG)						
	i` '	Apply post test routing	ne				
L	Apply poor tool routing						

TP number	TP_204_014	Reference	[1], clause 7.3.1			
TCC votovovo	[2], clause 7.2.3.2.6 SIP-I - SIP NNI/Basic call/Sending_of_CPG in encapsulated 18x message/					
TSS reference		<u> </u>	ted 18x message/			
Selection criteria	PICS 6.2.1/5 AND PICS 6.2					
Test Purpose name		ProgressIndicator 7 in 183 into				
Test Purpose		PSTN XML ProgressIndicator				
		d no Access Transport Param	eter is present containing a			
	Progress Indicator #7					
ISUP Parameter values	CPG: Access Transport no	t present				
SIP Parameter values	180:					
	xml version="1.0" encodi</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescrip	tion> 0000001 <				
	or					
	ProgressDescrip	tion> 0000010 <				
	183: P-Early-Media: sendonly					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4	tion, 0000111				
Comments	ProgressDescrip	11011>0000111<				
	SIP-I	MGCF	SIP NNI			
Message flows						
	INVITE (IAM)		INVITE			
	180 Ringing ← 180 Ringing					
	(ACM – free)					
	183 Session Progress ←	+	183 Session Progress			
	(CPG)					
		Apply post test routing	₩			

	TD 004 045	- In <i>t</i>	Ir. 1 = 0.4			
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 end	capsulated 18x message/			
Selection criteria	PICS 6.2.1/5 AND PICS 6	5.2.1/9				
Test Purpose name	Mapping of PSTN XML Pr	ogressIndicator 8 in 183	into Event information in the CPG			
Test Purpose			dicator value 8 in a 183 Session			
	Progress, a 183 Session I	Progress with encapsula	ted CPG is sent and Event information			
	parameter is set to 'In-bar	nd information or approp	riate pattern is now available'			
ISUP Parameter values	CPG: Event information=	CPG: Event information= In-band information or appropriate pattern is now available				
SIP Parameter values	183: P-Early-Media: ser	183: P-Early-Media: sendonly				
	xml version="1.0" enco</th <th>ding="utf-8"?></th> <th></th>	ding="utf-8"?>				
	PSTN	_				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0001000<					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→	→ INVITE			
	180 Ringing (ACM)	←	← 180 Ringing			
	5 5 ,	+	← 183 Session Progress			
	(CPG)		19 111			
	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/	Sending_of_CPG is	n encapsulated 1	8x message/
Selection criteria	PICS 6.2.1/5 AND PICS 6	2.1/9		
Test Purpose name	Mapping of PSTN XML Pro	ogressIndicator 1 ir	n 180 into ATP in	the CPG
Test Purpose	Ensure that on receipt of a	PSTN XML Progre	essIndicator valu	e 1 in a 180 Ringing, a 180
	Ringing with encapsulated		in Access Transp	oort Parameter is present
	containing a Progress Indi	cator #1		
ISUP Parameter values	CPG: Access Transport			
	Progress Indica	tor		
	Progress De	scription='000000'	<u>1'</u>	
SIP Parameter values	180:			
	xml version="1.0" encod</th <th>ling="utf-8"?></th> <th></th> <th></th>	ling="utf-8"?>		
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescri	otion> 0000001 <		
Comments				
Message flows	SIP NNI	MGCF		SIP NNI
	INVITE (IAM)	Ti/w1 started		
	183 Session Progress	Ti/w1 expired	→ INVI	TE
	(ACM – no indication)			
	180 Ringing (CPG)	-	← 180 I	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/Sen	ding_of_CPG in encapsulated	d 18x message/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 2 in 180 into ATP	in the CPG		
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator va	llue 2 in a 180 Ringing, a 180		
	Ringing with encapsulated CP	G is sent and an Access Tran	sport Parameter is present		
	containing a Progress Indicato	r #2			
ISUP Parameter values	CPG: Access Transport				
	Progress Indicator				
	Progress Descri	ption='0000010'			
SIP Parameter values	180:				
	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		
	INVITE (IAM) →	Ti/w1 started			
	183 Session Progress ←	Ti/w1 expired → IN'	VITE		
	(ACM)	•			
	180 Ringing (CPG) ←	← 18	0 Ringing		
		Apply post test routine	3 3		

TP number	TP_204_019	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.6		
TSS reference	SIP-I - SIP NNI/Basic call/Se	ending_of_CPG in enca	psulated 18x message/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Prog				
Test Purpose			cator value 4 in a 180 Ringing a 180		
			ess Transport Parameter is present		
	containing a Progress Indica	ator #4			
ISUP Parameter values	CPG: Access Transport				
	Progress Indicate				
		cription='0000100'			
SIP Parameter values	180:				
	xml version="1.0" encodir</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescript	ion>0000001<			
	or D				
	ProgressDescription>0000010<				
	180:				
	xml version="1.0" encoding="utf-8"?				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescript	ion>0000100<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →		→ INVITE		
	183 Session Progress ←				
	(ACM)				
	180 Ringing (CPG) ←		← 180 Ringing		
		Apply post test re			

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/Ser	nding_of_CPG in encapsu	lated 18x message/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	No mapping of PSTN XML P	rogressIndicator 7 in 180 in	nto ATP in the CPG			
Test Purpose	Ensure that on receipt of a PS	STN XML ProgressIndicate	or value 7 in a 180 Ringing, a 180			
	Ringing with encapsulated CI	PG is sent and no Access	Transport Parameter is present			
	containing a Progress Indicat	or #7				
ISUP Parameter values	CPG: Access Transport not	present				
SIP Parameter values	183:	183:				
	xml version="1.0" encoding</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	on> 0000111 <				
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 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	, 0011	<u> </u>	юароан	ated Text meesage,	
Test Purpose name		roare	esIndicator 8 in 18	Ω into F	Event information in the CPG	
Test Purpose					or value 8 in a 180 Ringing, a 180	
l cot i di poco					nation parameter is set to 'In-band	
	information or appropriate				nation parameter is set to in band	
ISUP Parameter values					priate pattern is now available	
SIP Parameter values	183:	- 111 6	and information of	арргор	onate pattern is new available	
on rarameter values	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
	PSTN	ullig-	= uu-o !>			
	_					
	ProgressIndicator					
	ProgressOctet4	intin	o. 0004000 a			
Comments	ProgressDescr	iptioi	1>0001000<			
Comments					OID MAIL	
Message flows	SIP-I	_	MGCF		SIP NNI	
	INVITE (IAM)	→	Ti/w1 started			
	183 Session Progress	←	Ti/w1 expired	→	INVITE	
	(ACM)					
	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 cal	II/Sen	ding_of_CPG in e	encapsul	ated 18x message/
Selection criteria	PICS 6.2.1/9				
Test Purpose name	Mapping of P-Early-Medi	ia hea	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-b	and information o	or approp	oriate pattern is now available
SIP Parameter values	183: P-Early-Media: se	endoni	ly		
Comments					
Message flows	SIP-I		MGCF		SIP NNI
	INVITE (IAM)	→	Ti/w1 started		
	183 Session Progress (ACM)	←	Ti/w1 expired	→	INVITE
	183 Session Progress (CPG)	←		←	183 Session Progress
	Apply post test routine				

TP number	TP_204_024	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.7.4		
TSS reference	CID I CID NINI/Docio coll/Con	ding of CDC in anappaulate	L J'		
	SIP-I - SIP NNI/Basic call/Sen	uing_or_CPG in encapsulate	ed 18x message/		
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name	180 received, coding of Backw				
Test Purpose	IAM with Transmission Medium Requirement indicator=speech or 3,1 kHz received. Ensure that on receipt of a 180 Ringing response, a 180 Ringing with encapsulated CPG is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0) ISDN access indicator = terminating access non-ISDN (0)				
	Echo control device indicator = incoming echo control device included (1)				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz ACM: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values					
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	Ti/w1 started			
	(ACM)		NVITE		
	180 Ringing (CPG) ←		80 Ringing		
		Apply post test routine			

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/Ser	ding_of_CPG in encapsula	ated 18x message/		
Selection criteria	PICS 6.2.4/2 AND NOT PICS	6.2.1/18	-		
Test Purpose name	180 received, coding of Backy	vard call indicator in CPG 1	ΓMR 64 kBit/s unrestricted		
Test Purpose	IAM with Transmission Medium Requirement indicator=64 kBit/s unrestricted received. Ensure that on receipt of a 180 Ringing response, a 180 Ringing with encapsulated CPG is sent and the Backward call indicator is set to the following values: Charge indicator = charge (10) Called party's status indicator = subscriber free (01) Called party's category indicator = no indication (00) End-to-end method indicator = no end-to-end method available (00) Interworking indicator = interworking encountered (1) End-to-end information indicator = no end-to-end information available (0) ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	 ISDN access indicator = terminating access non-ISDN (0) Echo control device indicator = incoming echo control device not included (0) 				
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted ACM: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values	1				
Comments					
Message flows	SIP 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 routing	ne		

TP number	TP_204_026	Reference	[1], clause 7.3.1	
		<u> </u>	[2], clause 7.2.3.2.7.4	
TSS reference	SIP-I - SIP NNI/Basic call/Sen		ed 18x message/	
Selection criteria	PICS 6.2.4/2 AND PICS 6.2.1			
Test Purpose name	180 received, coding of Backy			
Test Purpose	IAM with Transmission Mediur			
			linging with encapsulated CPG is	
	sent and the Backward call inc	dicator is set to the following	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 	tor = no end-to-end method	available (00)	
	 Interworking indicator = n 	o interworking encountere	ed (0)	
	 End-to-end information in 	dicator = no end-to-end info	rmation available (0)	
		cator = ISDN user part used		
	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 ← (ACM)	Ti/w1 expired → If	NVITE	
	180 Ringing (CPG) ←	← 1	80 Ringing	
		Apply post test routine		

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/Ser	nding_of_CPG in encapsula	ated 18x message/			
Selection criteria						
Test Purpose name	180 received, coding of Backy	ward call indicator in CPG I	HLC "Facsimile Group 2/3"			
Test Purpose		IAM with Transmission Medium Requirement indicator=3,1 kHz and High Layer				
	Compatibility= Facsimile Grou					
		encapsulated CPG is sent	and the Backward call indicator is			
	set to the following values:	(12)				
	Charge indicator = charge	• •				
	. ,	cator = subscriber free (01)				
		dicator = no indication (00)				
		ator = no end-to-end metho	` '			
	 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) 				
IOUR R		_	` '			
ISUP Parameter values		IAM: Transmission Medium Requirement indicator=3,1 kHz				
	ACM: Backward call indicato	High Layer Compatibility= Facsimile Group 2/3				
		Called party's status indicator = no indication				
SIP Parameter values	Called party 3 state	3 indicator = no indication				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) → Ti/w1 started					
	183 Session Progress ←	Ti/w1 expired →	INVITE			
	(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		Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.8	
TSS reference	SIP-I - SIP NNI/Basic	call/200 C	OK INVITE with encapsu	IE 37	
Selection criteria			•		
Test Purpose name	Sending of ANM when	1 200 OK	INVITE was received		
Test Purpose	Ensure that upon receipt of the first 200 OK (INVITE), if the Address Complete Message (ACM) has already been sent, the SUT sends the Answer Message (ANM)				
ISUP Parameter values		•			
SIP Parameter values					
Comments					
Message flows	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_002	Reference	[1], clause 7.3.1		
Tr Hamber	11 _203_002	Kererence	[2], clause 7.3.1		
TSS reference	SIP-L- SIP NNI/Basic call	/200 OK INVITE with en	capsulated ANM 200 OK INVITE with		
	encapsulated ANM /				
Selection criteria	NOT PICS 6.2.1/18				
Test Purpose name		of Backward call indicate	or in ANM TMR speech or 3,1 kHz audio		
Test Purpose			Medium Requirement indicator=speech		
-			00 OK INVITĖ final response, a 200 OK		
	INVITE with encapsulated	d ANM is sent and the B	ackward call indicator is set to the		
	following values:				
	 Charge indicator = ch 	narge (10)			
	 Called party's status 	indicator = no indication	(00)		
		ry indicator = no indicati			
	 End-to-end method in 	ndicator = no end-to-end	l method available (00)		
		r = interworking encount			
	 End-to-end information 	on indicator = no end-to-	end information available (0)		
	 ISDN user part/BICC 	indicator = ISDN user p	art not used all the way (0)		
	 ISDN access indicator = terminating access non-ISDN (0) 				
			o control device included (1)		
ISUP Parameter values	IAM: Transmission Medium Requirement indicator=speech or 3,1 kHz				
	ACM: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sei	ndonly			
Comments	CID I	МООБ	OID MAII		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→ Ti/w1 started			
	100 Coosian Drawnsa	← Ti/out assessed.	- INIVITE		
	1.00 0000000000000000000000000000000000	Ti/w1 expired	→ INVITE		
	(ACM)		← 183 Session Progress		
			← 183 Session Progress		
	200 OK (INVITE)	~	← 200 OK (INVITE)		
	200 OK (INVITE) ← ← 200 OK (INVITE) (ANM)				
		→	→ ACK		
	7.0.1	=			
	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 opening	[2], clause 7.2.3.2.8		
Selection criteria	PICS 6.2.4/2 AND NOT PICS		uiated Aivivi /		
			NIM TMP 64 kPit/s uprostricted		
Test Purpose name 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 Requirement indicator=64 kBit/s unrestricted ACM: Backward call indicator Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendor				
Comments		· y			
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)(ANM)				
	ACK →	→ Apply post test rout	ACK ine		

TP number	TP_205_004	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.8		
TSS reference	SIP-I - SIP NNI/Basic call/200		ated 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)				
		erminating access ISDN (
			` '		
ISUP Parameter values	Echo control device indicator = Incoming echo control device not included (0) IAM: Transmission Medium Requirement indicator=64 kBit/s unrestricted				
loor rarameter values	ACM: Backward call indicator				
	Called party's status indicator = no indication				
SIP Parameter values	183: P-Early-Media: sendonly				
Comments	Too. 1 Larry Modia: conden	.,			
Message flows	SIP-I	MGCF	SIP NNI		
3	INVITE (IAM)	Ti/w1 started	-		
	Session Progress ← (ACM)	Ti/w1 expired →	INVITE		
	← 183 Session Progress				
	200 OK (INVITE)	(200 OK (INVITE)		
	ACK →	→	ACK		
	Apply post test routine				

TP number	TP_205_005	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 encapsulated ANM /		
Selection criteria	PICS 6.2.1/9		
Test Purpose name	200 OK received, coding of Backward call indicator in ANM HLC "Facsimile Group 2/3"		
Test Purpose	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 Called party's status indicator = no indication		
SIP Parameter values	183: P-Early-Media: sendo		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	Ti/w1 started	
	Session Progress ← (ACM)	Ti/w1 expired →	INVITE
		+	183 Session Progress
	200 OK (INVITE) ← (ANM)	+	200 OK (INVITE)
	ACK →	→	ACK
		Apply post test routing	e

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 ProgressIndicator 1 in 200 OK into ATP in the ANM		
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 1 in a 200 OK INVITE, an		
	ANM is sent and an Access Ti	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:		
	<pre><?xml version="1.0" encoding="utf-8"?></pre>		
	PSTN		
	ProgressIndicator		
	ProgressOctet4		
	ProgressDescription	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	ne

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 o	call/200 C	OK INVITE with encaps	sulated ANM /
Selection criteria	PICS 6.2.1/5	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML ProgressIndicator 2 in 200 OK into ATP in the ANM			
Test Purpose	Ensure that on receipt of a PSTN XML ProgressIndicator value 2 in a 200 OK INVITE, a			
	200 OK INVITE with encapsulated ANM is sent and an Access Transport Parameter is			
	present containing a P	rogress I	ndicator #2	
ISUP Parameter values	ANM: Access Transpo	ort		
	Progress Inc	dicator		
	Progress	s Descrip	tion='0000010'	
SIP Parameter values	200 OK:			
	<pre><?xml version="1.0" encoding="utf-8"?></pre>			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>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 routine			

TP number	TP_205_008	Referenc	e	[1], clause 7.3.1
				[2], clause 7.2.3.2.9.2
TSS reference	SIP-I - SIP NNI/Basic call/	200 ÖK INVITE	with encapsul	lated 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				or value 4 in a 200 OK INVITE, a
				Access Transport Parameter is
	present containing a Prog	ress Indicator #	4	
ISUP Parameter values	ANM: Access Transport			
	Progress Indica			
	Progress Description='0000100'			
SIP Parameter values	200 OK:			
	xml version="1.0" encoding="utf-8"?			
	PSTN			
	ProgressIndicator			
	ProgressOctet4			
	ProgressDescription>0000100<			
Comments				
Message flows	SIP-I	MGC	F	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_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 ProgressIndicator 5 in 200 OK into 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 Progre				
ISUP Parameter values			tricted digital info with T/A,		
		red, TMR prime = speech	or 3,1 kHz audio		
	ANM: Access Transport				
	Progress Indicate	r			
	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) ←	+	200 OK (INVITE)		
	(ANM)				
	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 encapsu	lated ANM /		
Selection criteria	PICS 6.2.1/5	•			
Test Purpose name	No mapping of PSTN XML Pro	ogressIndicator 7 in 200 C	OK into ATP in the ANM		
Test Purpose		Ensure that on receipt of a PSTN XML ProgressIndicator 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	SUN			
	Interworking indicator	untored			
ISUP Parameter values	no interworking enco				
150P Parameter values	ANM: Access Transport not present Backward call indicator				
	ISDN User Part indicator				
	ISDN User Part indicator ISDN user Part used all the way ISDN access indicator Terminating access ISDN Interworking indicator				
	no interworking encountered				
SIP Parameter values	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		
	100 5: 1	(100 Trying		
	180 Ringing (←	+	180 Ringing		
	(ACM - free)				
	200 OK (INI\/ITE)	_	200 OK (INIVITE)		
	200 OK (INVITE)	←	200 OK (INVITE)		
	(ANM) ACK →		ACK		
	AUR 7	Apply post test routi			
	.	Apply post test fouti	IIC		

TP number	TP_205_011	I	Reference		[1], clause 7.3.1 [2], clause 7.2.3.2.9.2	
TSS reference	SIP-I - SIP NNI/Basic c	all/200 O	K INVITE with end	angul		
Selection criteria	PICS 6.2.1/5	ali/200 O	TO THE WILL SHE	apsu	iated Aivin/	
Test Purpose name		Highl av	erCompatibility in	200 C	OK into ATP in ANM	
Test Purpose	Mapping of PSTN XML HighLayerCompatibility in 200 OK into ATP in ANM Ensure that on receipt of 200 OK INVITE and a PSTN XML HighLayerCompatibility					
l cott a pood					ANM is sent and a Access	
					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					
	High laye	r charac	teristics identificati	on = I	HLC_VA	
SIP Parameter values	200 OK:					
	PSTN XML MIME body					
	xml version="1.0" en</th <th>coding="</th> <th>utf-8"?></th> <th></th> <th></th>	coding="	utf-8"?>			
	PSTN					
	HighLayerCompatibility					
	HLOctet3					
		CodingStandard>00< Interpretation>100<				
		PresentationMethod>01<				
	HLOctet4					
	HighLayerCharacteristics> HLC_VA <					
Comments	riigiiLayoror	aracteric	SHOSZIIEO_VA			
Message flows	SIP-I		MGCF		SIP NNI	
	INVITE (IAM)	→		→	INVITE	
	, ,			←	100 Trying	
	180 Ringing	←		←	180 Ringing	
	(ACM)				3 3	
	200 OK (INVITE)	←		←	200 OK (INVITE)	
	(ANM)					
	ACK → ACK					
			Apply post test	routii	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	ference	[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				
				ent and a Access Transport	
		Parameter is present containing a Bearer Capability IE and the value is set to the value ITC_value as indicated in table 6.1.2.5-1			
IOUD Description				sinted distribute with T/A	
ISUP Parameter values	-		•	ricted digital info with T/A,	
	ANM: Access Transpo		MR prime = speech c	or 3,1 KHZ audio	
	Bearer Cap				
			Canability - ITC val	الله ا	
SIP Parameter values	Information Transfer Capability = ITC_value 200 OK:				
on raramotor various	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	BearerCapability				
	BCoctet3	BCoctet3			
	CodingStan	dard>00<			
	Information -	InformationTransferCapability> ITC_value <			
	BCoctet4				
	TransferMode>00<				
	Information	TransferRate	e>10000<		
Comments	OID I		МООГ	CID NINII	
Message flows	SIP-I	_	MGCF	SIP NNI	
	INVITE (IAM)	→	→	INVITE	
	400 Dinging (ACM)	_	+	100 Trying	
	180 Ringing (ACM)	←	~	180 Ringing	
	200 OK (INVITE)	←	←	200 OK (INVITE)	
	(ANM)	•	•	ZOO OK (IINVITE)	
	ACK	→	→	ACK	
	Apply post test routine			_	
			ippij post toot routi	11 V	

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 PST				
	Transmission Medium Used pa				
	encapsulated ANM message.				
	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:				
	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 <				
0					
Comments	OID I	MOOF	CID NINI		
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)		→ INVITE		
	100 B: : (AOM ()		€ 100 Trying		
	180 Ringing (ACM – free)	(← 180 Ringing		
	200 OK (INVITE) (ANM)	+	€ 200 OK (INVITE)		
	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	Referer	nce	[1], clause 7.3.1
				[2], clause 7.2.3.2.11
TSS reference	SIP-I - SIP NNI/Basic call	l/Sending_of_2	200_OK_INVITE	_with_encapsulated CON/
Selection criteria				
Test Purpose name	Sending of CON message	e after 200 OK	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	MC	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 E	ackward call indicator in C	ON TMR speech or 3,1 kHz audio	
Test Purpose	IAM with Transmission Mediu		,	
	Ensure that on receipt of a 20			
	encapsulated CON is sent ar	d the Backward call indica	tor is set to the following values:	
	 Charge indicator = charge 			
	 Called party's status indi 	cator = no indication (00)		
	 Called party's category in 	ndicator = no indication (00	0)	
	 End-to-end method indic 	ator = no end-to-end meth	od available (00)	
	 Interworking indicator = i 	nterworking encountered (1)	
	 End-to-end information in 	ndicator = 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 indice 	ator = Incoming echo cont	trol device included (1)	
ISUP Parameter values		Requirement indicator=sp		
	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_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					
Test Purpose name	200 OK received, coding of Ba	ackward call indicator in Co	ON TMR 64 kBit/s unrestricted			
Test Purpose			64 kBit/s unrestricted received.			
	Ensure that on receipt of a 20					
	encapsulated CON is sent and	d the Backward call indicat	or is set to the following values:			
	 Charge indicator = charge 	e (10)				
	 Called party's status indic 					
		dicator = no indication (00)				
	 End-to-end method indicate 	ator = no end-to-end metho	od available (00)			
		nterworking encountered (1				
		dicator = no end-to-end in				
		ISDN user part/BICC indicator = ISDN user part not used all the way (0)				
	ISDN access indicator = terminating access non-ISDN (0)					
	Echo control device indicator = Incoming echo control device not included (0)					
ISUP Parameter values		Requirement indicator=64	kBit/s unrestricted			
	CON: Backward call indicator					
OID D	Called party's status indicator = no indication					
SIP Parameter values						
Comments	SIP-I	МОСТ	CID NINI			
Message flows	-	MGCF	SIP NNI			
	INVITE (IAM) →	→	INVITE			
	200 OK (INI\/ITE\CON 4		100 Trying			
	200 OK (INVITE)CON ← ACK →	← →	200 OK (INVITE) ACK			
	1.5.1					
		Apply post test routing	ie –			

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/Se	ending_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 A	NM TMR 64 kBit/s unrestricted	
Test Purpose			64 kBit/s unrestricted received.	
	Ensure that on receipt of a 2			
	encapsulated CON is sent a	nd the Backward call indica	tor is set to the following values:	
	 Charge indicator = char 	ge (10)		
	 Called party's status inc 	licator = no indication (00)		
	 Called party's category 	indicator = no indication (00	0)	
	 End-to-end method indi 	cator = no end-to-end meth	od available (00)	
	 Interworking indicator = 	no interworking encounted	ered (0)	
		indicator = no end-to-end ir		
	ISDN user part/BICC indicator = ISDN user part used all the way (1)			
	ISDN access indicator = terminating access ISDN (1)			
		cator = Incoming echo conf	* 7	
ISUP Parameter values		n Requirement indicator=64		
	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/Send	SIP-I - SIP NNI/Basic call/Sending_of_200_OK_INVITE_with_encapsulated CON/			
Selection criteria			·		
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 Medium				
			at on receipt of a 200 OK INVITE		
			N is sent and the Backward call		
	indicator is set to the following				
	 Charge indicator = charge 				
	 Called party's status indicated 				
	 Called party's category inc 				
	 End-to-end method indicate 				
	 Interworking indicator = int 	erworking encountered (1)		
	 End-to-end information inc 		` '		
	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				
OID D	Called party's status indicator = no indication				
SIP Parameter values					
Comments	SIP-I	MGCF	CID NINII		
Message flows	J		SIP NNI		
	INVITE (IAM) →)	INVITE		
	200 OK (INI) (ITE) CON .	(
	200 OK (INVITE) CON +	←	200 OK (INVITE)		
	non 2 non				
	1	Apply post test routing	IE .		

TP number	TP_206_006	Re	ference	[1], clause 7.3.1		
				[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic ca	all/Sending	_of_200_OK_INVITE	_with_encapsulated CON/		
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML	ProgressIn	dicator 1 in 200 OK i	nto ATP in the CON		
Test Purpose				or value 1 in a 200 OK INVITE, a		
				Access Transport Parameter is		
	present containing a Pro	ogress Indi	cator #1			
ISUP Parameter values	CON: Access Transpor					
	Progress Indi	cator				
		Description	n='0000001'			
SIP Parameter values	200 OK:					
	xml version="1.0" encoding="utf-8"?					
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription>0000001<					
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 routine				

TP number	TP_206_007	Reference	[1], clause 7.3.1		
ir number	11 _200_001	Keierence			
T00 (OLD 1 OLD MAIN (D. : III/O		[2], clause 7.2.3.2.11.2		
TSS reference	SIP-I - SIP NNI/Basic call/Send	ling_of_200_OK_INVITE	_with_encapsulated CON/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progres	ssIndicator 2 in 200 OK ir	nto ATP in the CON		
Test Purpose	Ensure that on receipt of a PST	TN XML ProgressIndicate	or value 2 in a 200 OK INVITE, a		
	200 OK INVITE with encapsula	ited CON is sent and an	Access Transport Parameter is		
	present containing a Progress	Indicator #2	•		
ISUP Parameter values	CON: Access Transport				
	Progress Indicator				
	Progress Descrip	otion='0000010'			
SIP Parameter values	200 OK:				
	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		
	200 OK (INVITE) (CON) ←	÷	200 OK (INVITE)		
	200 31 (1144112) (0014)	÷	ACK		
	2 /1011				
	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 P	rogressIndicator 4 in 2	00 OK into ATP in the CON		
Test Purpose			sIndicator value 4 in a 200 OK INVITE, a		
			and an Access Transport Parameter is		
	present containing a Prog	gress Indicator #4			
ISUP Parameter values	CON: Access Transport				
	Progress Indic	ator			
	Progress D	escription='0000100'			
SIP Parameter values	200 OK:				
	xml version="1.0" enco</th <th>oding="utf-8"?></th> <th></th>	oding="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDesci	ription> 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	st routine		

TP number	TD 206 000	Deference	[4] alouge 7.2.4		
I P 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	ding_of_200_OK_INVITE_wi	ith_encapsulated CON/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Progre	ssIndicator 5 in 200 OK into	ATP in the CON		
Test Purpose	Ensure that on receipt of a PS	TN XML ProgressIndicator v	alue 5 in a 200 OK INVITE, a		
-	200 OK INVITE with encapsula				
	present containing a Progress		•		
ISUP Parameter values		audio, USI prime=unrestrict	ed digital info with T/A,		
		d, TMR prime = speech or 3			
	CON: Access Transport	э, тим рими оргоси и	,		
	Progress Indicator				
	Progress Descrip	otion='0000101'			
SIP Parameter values	200 OK:	3.011- 0000101			
on rarameter values					
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN</pre>				
	ProgressIndicator				
	ProgressOctet4	. 0000101			
0	ProgressDescription>0000101<				
Comments	0.5	1100			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→ IN	IVITE		
		← 10	00 Trying		
	200 OK (INVITE) (CON) ←	← 20	00 OK (INVITE)		
	ACK →	→ A	CK ,		
	Apply post test routine				

TP number	TP_206_010	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_wi	th_encapsulated CON/		
Selection criteria	PICS 6.2.1/5				
Test Purpose name	No mapping of PSTN XML Pro	gressIndicator 7 in 200 OK ir	nto ATP in the CON		
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	call indicator is set to the		
	following values:				
	ISDN User Part indicator				
	ISDN User Part used a	ll the way			
	ISDN access indicator				
	Terminating access no	on-ISDN			
	Interworking indicator				
	no interworking encoເ				
ISUP Parameter values	CON: Access Transport not present				
	Backward call indicator				
	ISDN User Part indic				
		used all the way			
	ISDN access indicator				
	Terminating access non-ISDN				
	Interworking indicator				
	no interworking	encountered			
SIP Parameter values	200 OK:				
	xml version="1.0" encoding=</th <th>:"utf-8"?></th> <th></th>	:"utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescription	>0000111<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→ IN	VITE		
			00 Trying		
	200 OK (INVITE) (CON)		00 OK (INVITE)		
	ACK →	= :::	CK		
		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	ding_of_200_OK_INVITE_wi	th_encapsulated CON/
Selection criteria	PICS 6.2.1/5		
Test Purpose name	Mapping of PSTN XML HighLa	yerCompatibility in 200 OK i	nto ATP in CON
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML HighLayerCompatibility		
	element is present a 200 OK IN		
			npatibility 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		
		cteristics identification = HL (C_VA
SIP Parameter values	200 OK:		
	PSTN XML MIME body		
	<pre><?xml version="1.0" encoding=</pre></pre>	:"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) →		IVITE
			00 Trying
	200 OK (INVITE) (CON) ←	← 20	00 OK (INVITE)
	ACK →	→ A0	CK
		Apply post test routine	

TP number	TP_206_012	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.11.2	
TSS reference	SIP-I - SIP NNI/Basic call/Sen	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 BearerCapability in 200 OK into ATP in CON			
Test Purpose	Ensure that on receipt of 200 OK INVITE and a PSTN XML 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			
		nsfer Capability = ITC_va	lue	
SIP Parameter values	200 OK:			
	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<			
0	InformationTransfe	rRate>10000<		
Comments	SIP-I	моог	CID AIAU	
Message flows		MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
	000 OK (INIVITE) (OON)	← 100 Trying		
	200 OK (INVITE) (CON)	(200 OK (INVITE)	
	ACK → ACK			
	1	Apply post test routi	ne	

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 BearerCapability into Transmission medium used parameter		
Test Purpose			element in a 200 OK INVITE a
	Transmission Medium Used pa		
			ML InformationTransferCapability
		into the value of the Trar	nsmission Medium Used parameter
	TMU_VA_TMU as described		
	in table 6.1.2.5-3		
ISUP Parameter values	IAM: USI=speech or 3,1 kHz		
	· ·	d, TMR prime = speech o	r 3,1 KHz audio
	CON: TMU:		
SIP Parameter values	200 OK:		
Sir raiailletei values	<pre><?xml version="1.0" encoding="utf-8"?></pre>		
	PSTN		
	BearerCapability		
	BCoctet3		
	CodingStandard>00<		
	InformationTransferCapability> TMU_VA_BC <		
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 routing	ne

	T	I= 4	Ta.a
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/Se	ending_of_200_OK_INVITE_w	rith_encapsulated CON/
Selection criteria	PICS 6.2.1/19		
Test Purpose name	Receipt of a reINVITE reque	est	
Test Purpose	Ensure that on receipt of a reINVITE received from the SIP network containing a Call-Info header, the SUT instruct the MGW to send the associated media to the PSTN leg of the communication		
ISUP Parameter values			
SIP Parameter values	INVITE2: Call-Info: <media< th=""><th>esource URL></th><th></th></media<>	esource 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
	med	ia	
		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 7.3.1
			[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 fi	nal responses to ISUP/BICC	Release messages
Test Purpose	Ensure that on receipt of a	n unsuccessful final response	e SIP_Response before an early
	dialogue is established, a S	SIP_Response with encapsul	ated Release message Cause
	value REL_cause is sent of	n the ISUP/BICC leg of the o	connection. The mapping is
	according the table 6.1.2.7	1. The location value in the I	REL message is set to 'network
	beyond interworking point'		
ISUP Parameter values	REL: Cause = REL_caus	Э	
SIP Parameter values	SIP_Response		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	INVITE
		←	100 Trying
	SIP_Response (REL)	←	SIP_Response
	ACK (RLC) →	→	ACK

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

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

TP number	TP_207_002	Reference	[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			
Test Purpose name	Mapping of unsuccessful fina	responses to REL after 1	80 was received
Test Purpose	Ensure that on receipt of an u	insuccessful final response	e SIP_Response with encapsulated
			e receipt of a 180 Ringing, a REL is
			eceived status code as indicated in
	table 6.1.2.7-2. The location	alue in the REL message	is set to 'network beyond
	interworking point'		
ISUP Parameter values	REL: Cause = REL_cause		
SIP Parameter values	SIP_Response		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
		←	100 Trying
	180 Ringing (ACM)	←	180 Ringing
	SIP_Response (REL) ← SIP_Response		
	ACK (RLC) →	→	ACK

TP number	TP 207 003	Reference	[1], clause 7.3.1	
			[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				
Test Purpose name	Mapping of unsuccessfu	I final responses to REI	L after 181 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response with encapsulated (REL) after an early dialogue was established due to the receipt of a 181 Call is Being Forwarded, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'			
ISUP Parameter values	REL: Cause = REL_ca	use		
SIP Parameter values	SIP_Response			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	, ,		← 100 Trying	
	181 Call is Being Forwarded (ACM)		← 181 Call is Being Forwarded	
	SIP_Response (REL)	←	← SIP_Response	
	ACK (RLC)	→	→ ACK	

TP number	TP_207_004	Reference	[1], clause 7.3.1 [2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic call/Red	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/		
Selection criteria		<u>, </u>		
Test Purpose name	Mapping of unsuccessful final	responses to REL after 1	83 was received	
Test Purpose	Ensure that on receipt of an unsuccessful final response SIP_Response with encapsulated (REL)after an early dialogue was established due to the receipt of a 183 Session Progress, a REL is sent. The Cause value of the REL is mapped from the received status code as indicated in table 6.1.2.7-2. The location value in the REL message is set to 'network beyond interworking point'			
ISUP Parameter values	REL: Cause = REL_cause			
SIP Parameter values	SIP_Response			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	IAM →	→	INVITE	
		←	100 Trying	
	183 Session Progress ←	←	183 Session Progress	
	SIP_Response (REL) ←	←	SIP_Response	
	ACK (RLC) →	→	ACK	

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

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

TP number	TP_207_005	Reference	[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				
Test Purpose name	Mapping of Reason header in	to Cause value of REL		
Test Purpose			SIP_Response and a Reason	
			used in the corresponding REL	
	message. The mapping is ind	icated in table 6.1.2.7-3. T	he location value in the REL	
	message is set to 'network be	yond interworking point'		
ISUP Parameter values	REL: Cause= SIP_cause	REL: Cause= SIP_cause		
SIP Parameter values	SIP_Response: Reason: cause= SIP_cause			
Comments	The use of different cause values in the Reason header is recommended. The cause value			
	should be adequate to the res	ponse code.		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM) →	→	INVITE	
		←	100 Trying	
	SIP_Response (REL)	←	SIP_Response	
	ACK (RLC) →	→	ACK	

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

SIP_Response_VA	←REL (cause code) SIP_cause	←4xx/5xx/6xx SIP Message SIP_Response
VA_01	SIP_cause	400 Bad Request
VA_02	SIP_cause	401 Unauthorized
VA_03	SIP_cause	402 Payment Required
VA_04	SIP_cause	403 Forbidden
VA_05	SIP_cause	404 Not Found
VA_06	SIP_cause	405 Method Not Allowed
VA_07	SIP_cause	406 Not Acceptable
VA_08	SIP_cause	407 Proxy authentication required
VA_09	SIP_cause	408 Request Timeout
VA_10	SIP_cause	410 Gone
VA_11	SIP_cause	413 Request Entity too long
VA_12	SIP_cause	414 Request-URI too long
VA_13	SIP_cause	415 Unsupported Media type
VA_14	SIP_cause	416 Unsupported URI scheme
VA_15	SIP_cause	417 Unknown Resource-Priority
VA_16	SIP_cause	420 Bad Extension
VA_17	SIP_cause	421 Extension required
VA_18	SIP_cause	422 Session Interval Too Small
VA_19	SIP_cause	423 Interval Too Brief
VA_20	SIP_cause	433 Anonymity Disallowed.
VA_21	SIP_cause	440 Max-Breadth Exceeded
VA_22	SIP_cause	480 Temporarily Unavailable
VA_23	SIP cause	481 Call/Transaction does not exist
VA_24	SIP_cause	482 Loop detected
VA_25	SIP_cause	483 Too many hops
VA_26	SIP_cause	484 Address Incomplete
VA_27	SIP_cause	485 Ambiguous
VA_28	SIP_cause	486 Busy Here
VA_29	SIP_cause	487 Request terminated
VA_30	SIP_cause	488 Not acceptable here
VA_31	SIP_cause	493 Undecipherable
VA_32	SIP_cause	500 Server Internal error
VA_33	SIP_cause	501 Not implemented
VA_34	SIP_cause	502 Bad Gateway
VA_35	SIP_cause	503 Service Unavailable
VA_36	SIP_cause	504 Server timeout
VA_37	SIP_cause	505 Version not supported
VA_38	SIP_cause	513 Message too large
VA_39	SIP_cause	580 Precondition failure
VA_40	SIP_cause	600 Busy Everywhere
VA_41	SIP_cause	603 Decline
VA_42	SIP_cause	604 Does not exist anywhere
VA_43	SIP cause	606 Not acceptable

TP number	TP_207_006	Reference	[1], clause 7.3.1		
			[2], clause 7.2.3.2.12		
TSS reference	SIP-I - SIP NNI/Basic call/R	eceipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Prog	ressIndicator 1 in an unsuc	ccessful final response into ATP in		
	the REL				
Test Purpose			or value 1 in an unsuccessful final		
			se with encapsulated REL is sent		
	and an Access Transport Pa	rameter is present containi	ng a Progress Indicator #1		
ISUP Parameter values	REL: Access Transport				
	Progress Indicate	r			
	Progress Des	cription='0000001'			
SIP Parameter values	SIP_Response:				
	xml version="1.0" encodir</th <th>ng="utf-8"?></th> <th></th>	ng="utf-8"?>			
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescript	ion> 0000001 <			
Comments					
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	→	INVITE		
	100 Trying ←	←	100 Trying		
	SIP_Response (REL) ←	←	SIP_Response		
	ACK (RLC) →	→	ACK		

TP number	TP_207_007	Reference	[1], clauses 7.2.1, 7.3.1			
		1.01010101	[2], clause 7.2.3.2.12			
TSS reference	SIP-I - SIP NNI/Basic call/Re	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 Progr the REL	essIndicator 2 in an unsuc	ccessful final response into ATP in			
Test Purpose			or value 2 in an unsuccessful final			
			se with encapsulated REL is sent			
	and an Access Transport Par	ameter is present containi	ng a Progress Indicator #2			
ISUP Parameter values	REL: Access Transport					
	Progress Indicator					
	Progress Desc	ription='0000010'				
SIP Parameter values	SIP_Response:					
	xml version="1.0" encoding</th <th>g="utf-8"?></th> <th></th>	g="utf-8"?>				
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescription	on> 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 call/Re	ceipt_of_4xx-5xx-6xx/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of PSTN XML Prog	ressIndicator 4 in an unsuc	cessful final response into ATP in		
	the REL				
Test Purpose			or value 4 in an unsuccessful final		
			se with encapsulated REL is sent		
	and an Access Transport Pa	rameter is present containi	ng a Progress Indicator #4		
ISUP Parameter values	REL: Access Transport				
	Progress Indicator	•			
	Progress Desc	ription='0000100'			
SIP Parameter values	SIP_Response:				
	<pre><?xml version="1.0" encoding="utf-8"?></pre>				
	PSTN				
	ProgressIndicator				
	ProgressOctet4				
	ProgressDescripti	on> 0000100 <			
Comments					
Message flows	SIP-I MGCF SIP NNI				
	INVITE (IAM) →	→	INVITE		
		←	100 Trying		
	SIP_Response (REL) ←	←	SIP_Response		
	ACK (RLC) →	→	ACK		

TP number	TP 207 009	Reference	[1], clause 7.3.1			
			[2], clause 7.2.3.2.12			
TSS reference	SIP-I - SIP NNI/Basic call/Red	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/5	<u> </u>				
Test Purpose name	Mapping of PSTN XML Progre the REL	essIndicator 5 in an unsu	ccessful final response into ATP in			
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 TMR=64 kbit/s preferre REL: Access Transport Progress Indicator	IAM: USI=speech or 3,1 kHz audio, USI prime=unrestricted digital info with T/A, TMR=64 kbit/s preferred, TMR prime = speech or 3,1 kHz audio REL: Access Transport Progress Indicator				
SIP Parameter values	Progress Description='0000101' SIP_Response: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000101<					
Comments						
Message flows	SIP-I INVITE (IAM) → SIP_Response (REL) ← ACK (RLC) →	MGCF → ← ←	SIP NNI INVITE 100 Trying SIP_Response ACK			

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

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

TP number	TP_207_010	Reference	[1], clause 7.3.1	
			[2], clause 7.2.3.2.12	
TSS reference	SIP-I - SIP NNI/Basic ca	all/Receipt_of_4xx-5xx-6xx/	18 37	
Selection criteria	PICS 6.2.1/5	· = =		
Test Purpose name	Mapping of PSTN XML in REL	HighLayerCompatibility in a	n unsuccessful final response into ATP	
Test Purpose	Ensure that on receipt of an unsuccessful final response and a PSTN XML HighLayerCompatibility element is present a SIP_Response as indicated in table 6.1.2.7-4 with encapsulated REL is sent and a Access Transport Parameter is present containing a High layer compatibility IE and the value is set to the value HLC_VA as indicated in table 6.1.2.5-1			
ISUP Parameter values	REL: Access Transpo			
	High layer co			
	High laye	r characteristics identification	on = HLC_VA	
SIP Parameter values	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<			
Comments				
Message flows	SIP-I INVITE (IAM) SIP_Response (REL) ACK (RLC)	MGCF → ←	SIP NNI → INVITE ← 100 Trying ← SIP_Response → ACK	

TP_207_011	Reference	[1], clause 7.3.1		
		[2], clause 7.2.3.2.12		
SIP-I - SIP NNI/Basic call/Rece	ipt_of_4xx-5xx-6xx/			
PICS 6.2.1/5				
Mapping of PSTN XML Bearer	Capability in an unsucces	ssful final response into ATP in REL		
Ensure that on receipt of an un	successful final response	and a PSTN XML		
BearerCapability element is pre	esent, a SIP_Response a	is indicated in table 6.1.2.7-4 with		
encapsulated REL is sent and a	a Access Transport Para	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				
REL: Access Transport				
Bearer Capability				
Information Trans	sfer Capability = ITC_val	ue		
SIP_Response:				
xml version="1.0" encoding="utf-8"?				
PSTN				
BearerCapability				
BCoctet3				
CodingStandard>00	<			
InformationTransferCapability> ITC_value <				
BCoctet4				
TransferMode>00<				
InformationTransferRate>10000<				
SIP-I	MGCF	SIP NNI		
INVITE (IAM) →	→	INVITE		
, ,	←	100 Trying		
SIP Response (REL) ←	←	SIP_Response		
	→	ACK		
	SIP-I - SIP NNI/Basic call/Rece PICS 6.2.1/5 Mapping of PSTN XML Bearerd Ensure that on receipt of an understand the searer Capability element is present and a searer Capability IE and the variable 6.1.2.5-2 REL: Access Transport Bearer Capability Information Trans SIP_Response: xml version="1.0" encoding="PSTN" BearerCapability BCoctet3 CodingStandard 000 InformationTransferd BCoctet4 TransferMode>00< InformationTransferf BCoctet4 TransferMode>00< InformationTransferf SIP-I INVITE (IAM)	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/ PICS 6.2.1/5 Mapping of PSTN XML BearerCapability in an unsuccess Ensure that on receipt of an unsuccessful final response BearerCapability element is present, a SIP_Response a encapsulated REL is sent and a Access Transport Para Bearer Capability IE and the value is set to the value IT0 table 6.1.2.5-2 REL: Access Transport Bearer Capability Information Transfer Capability = ITC_val SIP_Response: xml version="1.0" encoding="utf-8"? PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability> ITC_value < BCoctet4 TransferMode>00< InformationTransferRate>10000< SIP-I INVITE (IAM) SIP_Response (REL) GUID ATX-5xx-6xx/ AND Acx-5xx-6xx/ BAC-5xx-6xx/ BIP-I MGCF INVITE (IAM) SIP_Response (REL)		

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: <m< th=""><th>edia re source URL></th><th></th></m<>	edia re source URL>		
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 routine			

Table 6.1.2.7-5: Void

TP number	TP_207_015	Reference	[1], clause 7.3.1		
			[2], clauses 7.2, 7.2.3.2.1		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_4xx-5xx-6xx/				
Selection criteria	PICS 6.2.1/3				
Test Purpose name	580 response to an UPDATE v				
Test Purpose	Ensure that on receipt of a 580				
	request was sent in the early d	ialogue, a REL is sent and the	Cause value is set to 127		
ISUP Parameter values	IAM: Nature of connection indicator= continuity check required on this circuit or continuity check performed on previous circuit				
	COT: Continuity indicator=cor	ntinuity check successful			
OID D	REL: Cause=127	''' 100 I			
SIP Parameter values	INVITE: Supported: precond				
	SDP a=curr:qos local				
	a=curr:qos remo				
		latory local sendrecv			
	a=des.qos none	remote sendrecv			
	183: Require: 100rel				
	SDP a=curr:qos local	none			
	a=curr:qos remote none a=des:gos mandatory local sendrecv				
	a=des:qos mandatory local sendrecv				
	a=conf:qos remote sendrecv				
	a=somique rome	7.0 00.10.100V			
	UPDATE:				
	SDP a=curr:qos local sendrecv				
	a=curr:gos remote none				
	a=des:gos mandatory local sendrecv				
	a=des:gos mano	latory remote sendrecv			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM) →	→	INVITE		
	100 Trying ←	←	100 Trying		
	183 Session Progress ←	←	183 Session Progress		
	PRACK →	→	PRACK		
	200 OK (PRACK) ←	←	200 OK (PRACK)		
	UPDATE →	→	UPDATE		
	580 Precondition ←	←	580 Precondition Failure		
	Failure (REL)				
	ACK (RLC) →	→	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,	Receipt_of_BYE/		
Selection criteria		•		
Test Purpose name	BYE received, REL is sen	t		
Test Purpose		. The Cause value of t		ader is present, a BYE with et to #16, the location is set to
ISUP Parameter values				
SIP Parameter values				
Comments				
Message flows	SIP-I	MGCF		SIP NNI
		→	← 100	VITE 0 Trying 0 Ringing
	(ANM)	+ →	← 200→ AC	0 OK (INVITE) :K
	\ /	+ →	← BY→ 200	TE 0 OK (BYE)

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/	Receipt_of_BYE/		
Selection criteria				
Test Purpose name	BYE received a Reason h value	eader is present, REL Cause	derived from the Reason cause	
Test Purpose		Ensure that on receipt of a BYE request and a Reason header is present, a BYE with encapsulated REL is sent. The Cause parameter is derived from cause parameter in the Reason header		
ISUP Parameter values	REL: Cause= <reason c<="" th=""><th>ause></th><th></th></reason>	ause>		
SIP Parameter values	BYE: Reason: cause			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	INVITE	
		←	100 Trying	
	180 Ringing (ACM free)	← ←	180 Ringing	
	ANM (200 OK) INVITE ACK	← →	200 OK (INVITE) ACK	
	(· ·)	← ← →	BYE 200 OK (BYE)	

TP number	TP_208_003	Ref	erence	[1], clause 7.3.1		
T00	OID I OID MAII/D:	- II /D i - t	4 DVE/	[2], clause 7.2.3.2.13		
TSS reference	SIP-I - SIP NNI/Basic ca	all/Receipt_c	DT_BAF\			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML					
Test Purpose				or value 1 in a BYE request, a BYE		
		is sent and	an Access Transpor	t Parameter is present containing a		
	Progress Indicator #1					
ISUP Parameter values	REL: Access Transpor					
	Progress Indi	icator				
		Description:	='0000001'			
SIP Parameter values	BYE:					
	xml version="1.0" end</th <th>coding="utf-</th> <th>8"?></th> <th></th>	coding="utf-	8"?>			
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDes	cription>000	00001<			
Comments						
Message flows	SIP-I		MGCF	SIP NNI		
	INVITE (IAM)	→	→	INVITE		
			+	100 Trying		
	180 Ringing	←	←	180 Ringing		
	(ACM – free)					
	Visit in the second sec					
	200 OK (INVITE) ← 200 OK (INVITE)					
	(ANM)					
	ACK → ACK					
	1011	-	•	,		
	BYE (REL)	←	←	BYE		
	200 OK (BYE) (RLC)	→	→	200 OK (BYE)		
	1200 ON (BTE) (NLC)	-	7	ZUU ON (DTE)		

TP number	TP_208_004	Reference	`	[1], clause 7.3.1				
i i iidilibei	17_208_004	Kelelelice	•	[1], clause 7.3.1				
TSS reference	CID I CID NINI/Desis es							
Selection criteria	SIP-I - SIP NNI/Basic call/Receipt_of_BYE/							
	PICS 6.2.1/5	\	0 in a DVE in	to ATD in the DEI				
Test Purpose name	Mapping of PSTN XML F							
Test Purpose				or value 2 in a BYE request, a BYE				
		s sent and an Acc	ess Transpor	t Parameter is present containing a				
IOUD D	Progress Indicator #2							
ISUP Parameter values	REL: Access Transport							
	Progress Indic		0.4.01					
	J	Description='0000	010'					
SIP Parameter values	BYE:							
	xml version="1.0" enc</th <th>oding="utf-8"?></th> <th></th> <th></th>	oding="utf-8"?>						
	PSTN							
	ProgressIndicator							
	ProgressOctet4							
	ProgressDesc	ription> 0000010 <	<u> </u>					
Comments			_	217 11111				
Message flows	SIP-I	MGC	=	SIP NNI				
	INVITE (IAM)	→	→	INVITE				
			←	100 Trying				
	180 Ringing	←	←	180 Ringing				
	(ACM - free)							
	200 OK (INVITE)	←	←	200 OK (INVITE)				
	(ANM)							
	ÀCK → ACK							
	BYE (REL)	←	←	BYE				
	200 OK (BYE)	→	→	200 OK (BYE)				
	(RLC)			, ,				

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 ca	II/Rece	ipt_of_BYE/			
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of PSTN XML F	rogres	ssIndicator 4 in a B	YE into	o ATP in the REL	
Test Purpose	Ensure that on receipt of	f a PST	N XML ProgressIn	dicato	r value 4 in a BYE request, a BYE	
	with encapsulated REL i	s sent a	and an Access Trai	nsport	Parameter is present containing a	
	Progress Indicator #4					
ISUP Parameter values	REL: Access Transpor	t				
	Progress Indi	cator				
	Progress	Descrip	tion='0000100'			
SIP Parameter values	BYE:					
	xml version="1.0" end</th <th>oding=</th> <th>"utf-8"?></th> <th></th> <th></th>	oding=	"utf-8"?>			
	PSTN					
	ProgressIndicator					
	ProgressOctet4					
	ProgressDesc	cription	>0000100<			
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					
	BYE (REL)	←		←	BYE	
	200 OK (BYE) (RLC)	→		→	200 OK (BYE)	

TP number	TP_208_006	Reference		[1], clause 7.3.1 [2], clause 7.2.3.2.13				
TSS reference	OLD I OLD NINH/D: II							
		SIP-I - SIP NNI/Basic call/Receipt_of_BYE/						
Selection criteria	PICS 6.2.1/5		\F:)				
Test Purpose name	Mapping of PSTN XML P							
Test Purpose				le 5 in a BYE request, a BYE meter is present containing a				
	Progress Indicator #5	Sent and an Access Tra	risport Fara	ineter is present containing a				
ISUP Parameter values	IAM: USI=speech or 3,1	kHz audio, USI prime=ı	unrestricted	digital info with T/A,				
		ferred, TMR prime = spe	ech or 3,1 l	kHz audio				
	REL: Access Transport							
	Progress Indica	ator						
		escription='0000101'						
SIP Parameter values	BYE:							
	xml version="1.0" enco</th <th>ding="utf-8"?></th> <th></th> <th></th>	ding="utf-8"?>						
	PSTN							
	ProgressIndicator							
	ProgressOctet4							
	ProgressDescr	ription> 0000101 <						
Comments								
Message flows	SIP-I	MGCF		SIP NNI				
	IAM -	→	→ INVI	· -				
			← 100	Trying				
	1.0099	←	← 180	Ringing				
	(ACM – free)							
	200 OK (INI\/ITE)	_	← 200	OK (INIVITE)				
	200 OK (INVITE) ← 200 OK (INVITE)							
	ACK → ACK							
	BYE (REL)	←	← BYE					
	200 OK (BYE) (RLC)	}	→ 200	OK (BYE)				

TP number	TP_208_007	Ref	ference	[1], clause 7.3.1		
TCC reference	CID I CID NINI/Decis es	all/Deceint	of DVE/	[2], clause 7.2.3.2.13		
TSS reference	SIP-I - SIP NNI/Basic ca	ali/Receipt_	OT_BYE/			
Selection criteria	PICS 6.2.1/5 Mapping of PSTN XML HighLayerCompatibility in a BYE into ATP in REL					
Test Purpose name						
Test Purpose				ML HighLayerCompatibility element is		
				ccess Transport Parameter is		
			npatibility IE and th	e value is set to the value HLC_VA		
10112	as indicated in table 6.1					
ISUP Parameter values	REL: Access Transpor					
	High layer co					
		r characteri	stics identification =	= HLC_VA		
SIP Parameter values	BYE:					
	PSTN XML MIME body		0110			
	xml version="1.0" end</th <th>coaing="utf-</th> <th>-8"'?></th> <th></th>	coaing="utf-	-8"'?>			
	PSTN					
	HighLayerCompatib	шту				
	HLOctet3	la mal. 00 .				
	CodingStand Interpretation					
	Presentation		_			
	HLOctet4	ivietriou>0 i	<			
	HighLayerCh	aracteristic	c>HIC VA>			
Comments	riigiteayeron	aracteristic	3211LO_VA			
Message flows	SIP-I		MGCF	SIP NNI		
message nows	INVITE (IAM)	→	ooi			
	IIIVII E (IAWI)	•	÷			
	180 Ringing	←	÷			
	(ACM)	•		100 Kinging		
	(ACIVI)					
	200 OK (INVITE) ← 200 OK (INVITE)					
	200 OK (INVITE) ← 200 OK (INVITE)					
	(ANM) ACK → ACK					
	AON		7	AON		
	BYE (REL)	←	←	BYE		
	200 OK (BYE) (RLC)	→	→	- · -		
	200 OK (BTL) (KLC)		7	200 ON (DTL)		

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	eipt_of_BYE/	12 - 2			
Selection criteria	PICS 6.2.1/5	•				
Test Purpose name	Mapping of PSTN XML Beare	rCapability in a BYE into i	ATP in REL			
Test Purpose			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		1			
CID Doromotor values		nsfer Capability = ITC_va	iue			
SIP Parameter values	BYE:	".uff 0"0.				
	<pre><?xml version="1.0" encoding PSTN</pre></pre>	= uti-8 ?>				
	BearerCapability					
	BCoctet3					
	CodingStandard>0)<				
		Capability> ITC_value <				
	BCoctet4	- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2				
	TransferMode>00<					
	InformationTransfe	Rate>10000<				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	IAM →	→	INVITE			
		-	100 Trying			
	180 Ringing ←	(180 Ringing			
	(ACM – free)					
	200 OK (INVITE) ← 200 OK (INVITE)					
	(ANM)	_				
	ACK →	→	ACK			
	BYE (REL) ←	+	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
			[2], clause 7.2.3.2.14
TSS reference	SIP-I - SIP NNI/Basic call/Rec	eipt_of_REL/	
Selection criteria			
Test Purpose name	REL received before an early	dialogue was established,	a CANCEL is sent
Test Purpose			ated REL message before an early d the Reason header is present,
	the cause value is derived from		
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				
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 180 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 180 Ringing response was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL						
ISUP Parameter values	REL: Cause value						
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>use value></th><th></th></ca<>	use value>					
Comments							
Message flows	SIP-I	MGCF	SIP NNI				
	INVITE (IAM)	→ → ←					
	180 Ringing (ACM – free)	+ +	180 Ringing				
	CANCEL/BYE (REL) 200 OK (CANCEL) (RLC)	→ → ←	CANCEL 200 OK (CANCEL)				
	487 Request Terminated ACK	← ← → →	487 Request Terminated ACK				

TP number	TP 209 003	Reference		[1], clause 7.3.1			
Tr Humber	11 _203_000	Reference		[2], clause 7.2.3.2.14			
TSS reference	SIP-I - SIP NNI/Basic call/Red	SIP-I - SIP NNI/Basic call/Receipt_of_REL/					
Selection criteria		•					
Test Purpose name	REL received after an early di	alogue with 181 was esta	blishe	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 present, the cause value is derived from the Cause value in the received REL						
ISUP Parameter values	REL: Cause value						
SIP Parameter values	CANCEL: Reason: cause= <c< th=""><th>ause value></th><th></th><th></th></c<>	ause 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				
			[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							
Test Purpose name							
Test Purpose	REL received after an early dia	alogue with 182 was establish	ned, a CANCEL is sent				
ISUP Parameter values	Ensure that on receipt of a CA						
	dialogue due to a 182 Queued	response was established, a	CANCEL request is sent and				
	the Reason header is present,	the cause value is derived from	om the Cause value in the				
	received REL						
SIP Parameter values	REL: Cause value						
Comments	CANCEL: Reason: cause= <c< th=""><th>ause value></th><th></th></c<>	ause value>					
Message flows	SIP-I	MGCF	SIP NNI				
	INVITE (IAM)	→	NVITE				
	, ,	←	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 209 005	Reference		[1], clause 7.3.1			
Ti Hamber	11 _200_000	T.G.G.G.G.G.G.		[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		· = =					
Test Purpose name	REL received after an early dia	alogue with 183 was estab	lished	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 183 Session Progress response was established, a CANCEL request is sent and the Reason header is present, the cause value is derived from the Cause value in the received REL						
ISUP Parameter values	REL: Cause value						
SIP Parameter values	CANCEL: Reason: cause= <ca< th=""><th>ause value></th><th></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/	[[=], s.a.c.s=.s.z
Selection criteria		· = =	
Test Purpose name	REL received in the confirmed	dialogue a BYE is sent	
Test Purpose	Ensure that on receipt of a BYE dialogue, a BYE request is sen derived from the Cause value in	t and the Reason header is pr	
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
	BYE (REL)	→	BYE
	200 OK (BYE) (RLC)	+ +	200 OK (BYE)

TP number	TP_209_007	Reference		[11] cloude 7.2.1		
i P number	TP_209_007	Reference		[1], clause 7.3.1 [2], clause 7.2.3.2.14		
TCC reference	15 2'					
TSS reference	SIP-I - SIP NNI/Basic call/R	eceipt_of_REL/				
Selection criteria	PICS 6.2.1/5					
Test Purpose name	Mapping of REL ATP Progre BYE	ess Indicator #1 into	PSTN XML P	rogressIndicator #1 in the		
Test Purpose	Ensure that on receipt of a E	3YE with encapsulate	ed REL mess	age and a ATP containing a		
	Progress Indicator #2 in the	confirmed dialogue,	a BYE reque	st is sent and a PSTN XML		
	ProgressIndicator is present	, the ProgressDescr	iption is set to) #1		
ISUP Parameter values	REL: Access Transport	· •	•			
	Progress Indicate	r				
		cription='0000001'				
SIP Parameter values	BYE:	1				
	xml version="1.0" encodir</th <th>na="utf-8"?></th> <th></th> <th></th>	na="utf-8"?>				
	PSTN	3				
	ProgressIndicator					
	ProgressOctet4					
	ProgressDescript	ion> 0000001 <				
Comments						
Message flows	SIP NNISIP-I	MGC	F	SIP NNI		
	INVITE (IAM)	→	→	INVITE		
	,		←	100 Trying		
	180 Ringing (ACM)	←	-	180 Ringing		
	Too ranging (Aom)	•	•	100 Kinging		
	200 OK (INVITE) (ANM)	←	←	200 OK (INVITE)		
	ACK → ACK					
	ACK		7	AGN		
	BYE (REL)	→	→	BYE		
	` '	→	-	= : =		
	200 OK (BYE) (RLC)	~	+	200 OK (BYE)		

TP number	TP_209_008	Reference	[1], clause 7.3.1		
TSS reference	SIP-I - SIP NNI/Basic call/Receipt_of_REL/				
Selection criteria	PICS 6.2.1/5	celpt_ol_REL/			
		L II (WO') (DOTAL) (AM	D 1 1: 1 1/0: 11		
Test Purpose name	Mapping of REL ATP Progres BYE	s indicator #2 into PSTN XML	_ ProgressIndicator #2 in the		
Test Purpose	Progress Indicator #2 in the c	Ensure that on receipt of a BYE 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 Desci	ription='0000010'			
SIP Parameter values	BYE:				
	<pre><?xml version="1.0" encoding="utf-8"?> PSTN ProgressIndicator ProgressOctet4 ProgressDescription>0000010<</pre>				
Comments					
Message flows	SIP NNISIP-I INVITE (IAM) 180 Ringing (ACM – free) 200 OK (INVITE) (ANM) ACK BYE (REL)	← • • • • • • • • • • • • • • • • • • •	SIP NNI → INVITE ← 100 Trying ← 180 Ringing ← 200 OK (INVITE) → ACK → BYE		
	200 OK (BYE) (RLC)	=	€ 200 OK (BYE)		

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/Rece	eipt_of_REL/			
Selection criteria	PICS 6.2.1/5				
Test Purpose name	Mapping of REL ATP Progress BYE	Indicator #4 into PSTN XML	ProgressIndicator #4 in the		
Test Purpose	Progress Indicator #4 in the co	Ensure that on receipt of a BYE 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 Descrip	otion='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)	MGCF → ← ← ←	100 Trying		
	200 OK (ANM) ACK	← ← ← →			
	BYE (REL) 200 OK (BYE) (RLC)	→ → ← ←			

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/Rece	SIP-I - SIP NNI/Basic call/Receipt_of_REL/			
Selection criteria	PICS 6.2.1/5	. 1 = -			
Test Purpose name	Mapping of REL ATP Progress BYE	Indicator #5 into PSTN XML F	ProgressIndicator #5 in the		
Test Purpose	Progress Indicator #5 in the co ProgressIndicator is present, the	Ensure that on receipt of a BYE 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 Descri	otion='0000101'			
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN ProgressIndicator				
	ProgressOctet4 ProgressDescription>0000101<				
Comments					
Message flows	INVITE (IAM) 180 Ringing (ACM)	MGCF	SIP NNI INVITE 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/	16 37		
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 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 compatib				
		cteristics identification = HL0	C_VA		
SIP Parameter values	BYE: PSTN XML MIME body xml version="1.0" encoding= PSTN HighLayerCompatibility HLOctet3 CodingStandard 00 Interpretation>100< PresentationMethod HLOctet4 HighLayerCharacter)< I>01<			
Comments					
Message flows	SIP NNISIP-I INVITE (IAM) 180 Ringing (ACM – free)	•	SIP NNI → INVITE ← 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_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 C	apability into PSTN XML Bea	arer Capability in the BYE		
Test Purpose	Ensure that on receipt of a BYE with encapsulated REL message and an ATP containing a Bearer Capability IE in the confirmed dialogue, a BYE request is sent and a PSTN XML Bearer Capability is present, the InformationTransferCapability is set to ITC_value as indicated in table 6.1.2.1-6				
ISUP Parameter values	REL: Access Transport Bearer Capability Information Tran	sfer Capability = ITC_value			
SIP Parameter values	BYE: xml version="1.0" encoding="utf-8"? PSTN BearerCapability BCoctet3 CodingStandard>00< InformationTransferCapability>ITC_value< BCoctet4 TransferMode>00< InformationTransferRate>10000<				
Comments					
Message flows	SIP NNISIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM) 200 OK (INVITE) (ANM)	← ← ←	SIP NNI NVITE 100 Trying 180 Ringing 200 OK (INVITE)		
	ACK BYE (REL) 200 OK (BYE) (RLC)	→	➤ ACK ➤ BYE ► 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		
TSS reference	[2], clause 7.2.3.2.16 SIP-I - SIP NNI/Basic call/Autonomous Release/				
Selection criteria	SIF-1 - SIF MM/Basic call/Autonomoc	15_Nelease/			
Test Purpose name	Call is released to due message com dialogue	patibility instruction 'Rele	ease call' received in the early		
Test Purpose	message compatibility is set to 'releas	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 informa REL: Cause=97	Message compatibility information: Release call indicator=release call			
SIP Parameter values	CANCEL: Reason:				
Comments	For an unknown message use a mes	sage type unknown in th	ne 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)	→	► 200 OK (CANCEL)		
			487 Request TerminatedACK		

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 ca	all/Autonomous_Release/	12 2		
Selection criteria					
Test Purpose name	Call is released to due reconfirmed dialogue	message compatibility instruction 'F	Release call' received in the		
Test Purpose	Ensure that on receipt of an unknown ISUP message in the confirmed dialogue and the message compatibility is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 97. In addition a SIP BYE request is sent and a Reason header field is present				
ISUP Parameter values	??? = unknown message: Message compatibility information: Release call indicator=release call REL: Cause=97				
SIP Parameter values	BYE: Reason:				
Comments	For an unknown messa	ge use a message type unknown ir	n the SUT.		
Message flows	SIP NNISIP-I	MGCF	ISUP		
_	INVITE (IAM)	→	→ INVITE		
	180 Ringing	←	← 180 Ringing		
	(ACM – free)				
	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/Autor	nomous_Releas	se/		
Selection criteria					
Test Purpose name	Call is released to due paramet	er compatibility	instruction 'Rele	ease call' received in the	
	early dialogue				
Test Purpose	Ensure that on receipt of a CPC	3 in the early dia	alogue and an u	ınknown parameter is	
	present the parameter compati				
	message is sent and the Cause				
	CANCEL request is sent and a				
ISUP Parameter values	CPG: Parameter compatibility	information: Re	lease call indica	ator=release call	
	REL: Cause=99 or 110				
SIP Parameter values	CANCEL: Reason:				
Comments	For an unknown parameter use	a parameter ty			
Message flows	SIP NNISIP-I		MGCF	ISUP	
	INVITE (IAM)	→	→	INVITE	
	180 Ringing	←	←	180 Ringing	
	(ACM –free)				
	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		
TSS reference	SIP-I - SIP NNI/Basic call/Auto	[2], clause 7.2.3.2.16 SIP-I - SIP NNI/Basic call/Autonomous_Release/			
Selection criteria					
Test Purpose name	Call is released to due parame confirmed dialogue	eter compatibility instruction 'F	Release call' received in the		
Test Purpose	Ensure that on receipt of a CPG in the confirmed dialogue and an unknown parameter is present the parameter compatibility instruction is set to 'release call' an ISUP REL message is sent and the Cause indicator is set to value 99 or 110. In addition a SIP BYE request is sent and a Reason header field is present				
ISUP Parameter values	CPG: Parameter compatibility information: Release call indicator=release call REL: Cause=99 or 110				
SIP Parameter values	BYE: Reason:				
Comments	For an unknown parameter us	e a parameter type unknown	in the SUT.		
Message flows	SIP NNI	MGCF	SIP-I		
		→	▶ INVITE		
	180 Ringing ← ← 180 Ringing (ACM - free)				
	200 OK (INVITE) (ANM)				
	ACK → ACK				
	INFO (CPG – conference → established)				
	BYE (REL# 99 or 110)		▶ BYE - 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 C	OLP 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
	requested'. A received connect		
ISUP Parameter values	I	call indicators = 'COL not req	uested'
	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		
	180 Ringing ←	←	180 Ringing (ACM – free)
	Too ranging	•	ree ranging (rem nee)
	200 OK (INVITE)	+	200 OK (INVITE) (ANM)
	ACK →	→	ACK
	CACE D		
	CASE B	7	200 OK (CON)
	200 OK (INVITE)	-	200 OK (CON)
	ACK →	<u>=</u>	ACK
		Apply post test routine	

TP number	TP_302_002	Reference	[1], clause 7.2.1	
T00 (DOTN CO/OOL /		[2], clause 7.4.2	
TSS reference	PSTN-SS/COL/	4 AND DIGG 0 0 0/0		
Selection criteria	PICS 6.3.4/1 AND PICS 6.3.1/			
Test Purpose name	The SUT invokes the COLP se			
Test Purpose	signals to construct an E.1 CC NDC SN.' - 'international number' 200 OK INVITE P-Asserte Map complete Connected the URI. Prefix number wit Address presentation restrictio - 'presentation allowed'	is sent and the Connected Lill indicators parameter of the nallowed is interworked. ual to per' d-Identity here the SUT is located) to Co. 64 number in the URI. Prefix d-Identity number address signals to coth "+" in the Format '+ CC ND n indicator	ne Identity Request indicator IAM to 'requested'. A received onnected number address number with '+' in the format '+ onstruct an E.164 number in C SN'.	
ISUP Parameter values	IAM: Optional forward	ent or if present the value is r call indicators = 'COL not red	guested'	
	ANM/CON: Connected number		1	
SIP Parameter values	INVITE: P-Asserted-Identity 200 OK: P-Asserted-Identity	present		
Comments				
Message flows	SIP NNI INVITE 100 Trying CASE A 180 Ringing 200 OK (INVITE) ACK	←	SIP-I INVITE (IAM) 180 Ringing (ACM – free) 200 OK (INVITE) (ANM) ACK	
	CASE B 200 OK (INVITE) ACK → ADPly post test routine CASE B 200 OK (INVITE) ACK Apply post test routine			

TP number	TP_302_003	Reference	[1], clause 7.2.1			
			[2], clause 7.4.2			
TSS reference	PSTN-SS/COL/					
Selection criteria	PICS 6.3.4/1 AND PICS 6.3.1					
Test Purpose name	The SUT invokes the COLP s					
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'.					
ISUP Parameter values		d call indicators = 'COL reque	ested'			
OID D	ANM/CON: Connected num					
SIP Parameter values		INVITE: P-Asserted-Identity present 200 OK: P-Asserted-Identity present Privacy: id				
Comments						
Message flows	100 Trying CASE A	MGCF	SIP-I INVITE (IAM) 180 Ringing (ACM – free)			
	5 5	÷	- 200 OK (INVITE) (ANM) ACK - 200 OK (INVITE) (CON)			
		Apply post test routine				

TP number	TP_302_004	Reference	[1], clause 7.3.1 [2], clause 7.4.2	
TSS reference	PSTN-SS/COL/		[[2], 014430 7.4.2	
Selection criteria	PICS 6.3.1/1 AND PICS 6.	3.2/2		
Test Purpose name		COL request is set to 'not requested'		
Test Purpose	Ensure that on receipt of an IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to '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	[14	1], clause 7.3.1	
Fildiliber	TP_302_005	Reference		2], clause 7.3.1 2], clause 7.4.2	
TSS reference	DCTN CC/COL/		<u> </u> 2	2j, clause 7.4.2	
	PSTN-SS/COL/	2/2			
Selection criteria	PICS 6.3.1/1 AND PICS 6.3			400	
Test Purpose name		COL request is set to 'requested' Terminating identity received in a 180 response			
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 'requested', the P-Asserted-Identity received in a provisional response is sent in the 200				
		OK (INVITE) with encapsulated ANM .			
	Coding of Connected number parameter Number incomplete indicator equal to 'Complete'				
	Numbering Plan Indicator equal to 'ISDN/Telephony (<i>Recommendation E.164</i>)' Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number" else set to "international number"				
		Address Presentation Restricted Indicator derived from the Privacy header according			
ICUID Developed	the mapping as describe				
ISUP Parameter values	IAM: Optional Forward Call Indicators				
		Connected Line Identity Request = requested			
	ANM: Connected number Presentation restriction Privacy_VA				
OID Developed		riction Privacy_vA			
SIP Parameter values	180:				
	P-Asserted-Identity				
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 routin	e		

TP 302 006	Reference	[1], clause 7.3.1	
		[2], clause 7.4.2	
PSTN-SS/COL/		15 47	
COL request is set to 'reques	COL request is set to 'requested' Terminating identity received in a 200 OK response		
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 'requested', the P-Asserted-Identity received in a 200 OK response is sent in the 200 OK response with encapsulated ANM. Coding of Connected number parameter Number incomplete indicator equal to 'Complete' Numbering Plan Indicator equal to 'ISDN/Telephony (Recommendation E.164)'			
If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number" else set to "international number" Address Presentation Restricted Indicator derived from the Privacy header according			
IAM: Optional Forward Call Indicators Connected Line Identity Request = requested ANM: Connected number Proportation restriction Privacy VA			
	OHOH I HVACY_VA		
. Accorded additing			
SIP-I	MGCF	SIP NNI	
INVITE (IAM) 180 Ringing (ACM – free) 200 OK (INVITE) (ANM) ACK	← ←	INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK	
	PICS 6.3.1/1 AND PICS 6.3.2 COL request is set to 'requese Ensure that on receipt of an I Identity Request indicator in t 'requested', the P-Asserted-Identity Requested', the P-Asserted-Identity Requested In the Part of Address Indicated If CC encoded in the Use AND the next BICC/IS "national (significated else set to "international number Address Presentation Resetted Elme Identity Presentation restriction P-Asserted-Identity Invite (IAM) SIP-I INVITE (IAM) 180 Ringing (ACM – free) 200 OK (INVITE) (ANM)	PSTN-SS/COL/ PICS 6.3.1/1 AND PICS 6.3.2/2 COL request is set to 'requested' Terminating identity receive Ensure that on receipt of an INVITE with encapsulated IAM a Identity Request indicator in the Optional Forward Call Indica 'requested', the P-Asserted-Identity received in a 200 OK res response with encapsulated ANM. Coding of Connected number parameter Number incomplete indicator equal to 'Complete' Numbering Plan Indicator equal to 'ISDN/Telephony (Rec Nature of Address Indicator If CC encoded in the URI is equal to the CC of the cou AND the next BICC/ISUP node is located in the same "national (significant) number" else set to "international number" Address Presentation Restricted Indicator derived from the the mapping as described in table 6.2.2-1 IAM: Optional Forward Call Indicators Connected Line Identity Request = requested ANM: Connected number Presentation restriction Privacy_VA 200: P-Asserted-Identity MGCF INVITE (IAM) ** ** ** ** ** ** ** ** **	

TP number	TP_302_007	Reference	[1], clause 7.3.1 [2], clause 7.4.2	
TSS reference	PSTN-SS/COL/		[[2], clause 1.4.2	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.			
Test Purpose name		COL request is set to requested Terminating identity received in a 200 OK response		
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and the Connected Line Identity Request indicator in the Optional Forward Call Indicators parameter is set to 'requested', if no provisional response was received the P-Asserted-Identity received in a 200 OK response is sent in the 200 OK with encapsulated CON. Coding of Connected number parameter Number incomplete indicator equal to 'Complete' Numbering Plan Indicator equal to 'ISDN/Telephony (Recommendation E. 164)' Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then set to "national (significant) number" else set to "international number" Address Presentation Restricted Indicator derived from the Privacy header according			
ISUP Parameter values	the mapping as described in table 6.2.2-1 IAM: Optional Forward Call Indicators Connected Line Identity Request = requested CON: Connected number Presentation restriction Privacy_VA			
SIP Parameter values	200: P-Asserted-Identity	Ollon Tiracy_VA		
Comments				
Message flows	SIP-I INVITE (IAM) 200 OK (INVITE) (CON) ACK Apply post test routine	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					
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		<u> </u>					
SIP Parameter values							
Comments							
Message flows	SIP NNI	MGCF	SIP-I				
	INVITE +	-	INVITE (IAM)				
	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	9	[1], clause 7.3.1
	555_55_			[2], clause 7.4.4
TSS reference	PSTN-SS/MCID/			1- 1-
Selection criteria	PICS 6.3.1/1 AND PICS	6.3.2/3		
Test Purpose name	MCID request after ACI	M		
Test Purpose	Ensure that a MCID red disrupt the call setup pr			UP IDR is discarded without ptional
ISUP Parameter values			J	
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) INFO (IRS)
	CASE B		←	183 Session Progress (IDR) No response
		Apply p	ost test 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 head					
Test Purpose	Ensure that on receipt of an ini					
	sent. The isub parameter prese					
	Subaddress covered in an Acc					
	encoding parameter is present	, the values 'nsap-ıa5', 'nsap-b	cd' or 'nsap' are relevant for			
	mapping					
	Encoding of the Subaddress in	the IAM:				
	Encoding of the Subaddress in Type of Subaddress='NSAP'	tile iAivi.				
		the uric of the isub parameter				
ISUP Parameter values	IAM: Access Transport	Subaddress digits derived from the uric of the isub parameter				
	Called party subaddress					
	Type of Subaddress=NSAP					
	Subaddress digits derived from the uric of the isub parameter					
SIP Parameter values	INVITE: To:					
	isub					
	uric Subaddress digits					
	isub-encodin	g: Not present				
		nsap-ia5				
	nsap-bcd					
0	nsap					
Comments Message flows	CID NINI MOCE CID I					
Message flows	SIP NNI MGCF SIP-I					
	INVITE →	=	INVITE (IAM)			
	100 Trying ←					
	Apply post test routine					

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 then 'nsap-ia5',	
	'nsap-bcd' or 'nsap'			
ISUP Parameter values				
SIP Parameter values	INVITE: To:			
	isub			
	uric	Subaddress digits		
	isub-	encoding: <any token=""></any>		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	` '	
	Apply post test routine			

	PSTN-SS/SUB/		[2], clause 7.4.5.2					
	PSTN-SS/SUB/							
	PICS 6.3.2/4							
	isub parameter in the P-Asserte	ed-Identity header is mapped i	nto Calling party Subaddress					
	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							
	IAM: Access Transport Calling party subaddress Type of Subaddress=NSAP							
SIP Parameter values	Subaddress digits derived from the uric of the isub parameter INVITE: P-Asserted-Identity:							
SIF Farailleter values	INVITE: P-Asserted-Identity: isub							
	uric Subaddre	oog digita						
		g: Not present						
	เรนม-ยาเดินแก้	nsap-ia5						
	nsap-lab nsap-bcd							
	nsap							
Comments	Ποαρ							
Message flows	SIP NNISIP-I MGCF SIP-I							
J	INVITE → INVITE (IAM)							
	100 Trying							
	Apply post test routine							

TP number	TP_304_004	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 P-Assert	ed-Identity header in the INVIT	E is not mapped		
Test Purpose	Ensure that on receipt of an ini				
	sent. The isub parameter pres				
	Calling party Subaddress if the	value of the isub-encoding pa	arameter is other then 'nsap-		
	ia5', 'nsap-bcd' or 'nsap'				
ISUP Parameter values					
SIP Parameter values	INVITE: P-Asserted-Identity:				
	isub				
	uric Subaddress digits				
	isub-encodin	g: <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 in		isub parameter in the				
Total Dominion	P-Asserted-Identity header in t						
Test Purpose	Ensure that on receipt of a 200						
	Connected party Subaddress p	arameter in an Access Transp	ort parameter, a 200 OK				
	(INVITE) is sent and the						
	P-Asserted-Identity header cor						
	Connected Subaddress digits of	of the Connected party subadd	ress digits				
ISUP Parameter values	ANM: Access Transport						
		Connected party subaddress					
	Type of Subaddr						
	Subaddress digit						
SIP Parameter values	200 OK: P-Asserted-Identity:						
	isub						
	uric digits derived from the Connected party Subaddress digits						
Comments							
Message flows	SIP NNI	MGCF	SIP-I				
	INVITE →	→	INVITE (IAM)				
	180 Ringing ←						
	(ACM – free)						
	200 OK (INVITE) ← 200 OK (INVITE)						
			(ANM)				
	ACK →	→	ACK				
		Apply post test routine					

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 m	napped			
Test Purpose		` ,	I message containing a Connected party			
	Subaddress parameter	in an Access Transport pa	arameter, 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				
		party subaddress				
	Type of 3	Subaddress other then NS.	AP			
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 Part	y 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 Transpo Called party Type of S Subaddre	subaddress Subaddress=NSAP				
SIP Parameter values	INVITE: To: isub uric d	igits derived from the Called encoding=nsap-ia5	party Subaddress digits			
Comments		•				
Message flows	SIP-I MGCF SIP NNI					
	INVITE (IAM) → INVITE					
	← 100 Trying					
	Apply post test routine					

TP number	TP 304 008		Reference		[1], clause 7.3.1	
					[2], clause 7.4.5.3	
TSS reference	PSTN-SS/SUB/	•			12 2:	
Selection criteria	PICS 6.3.2/4					
Test Purpose name	No mapping of Called	d 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 the Type of number of the subaddress is not equal to 'NSAP'					
ISUP Parameter values	IAM: Access Transport Called party subaddress Type of Subaddress not NSAP Subaddress digits					
SIP Parameter values						
Comments						
Message flows	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 Pa	rty subaddress in the IAM into	isub parameter in the P-Asserted-			
	Identity header in the	INVITE				
Test Purpose			ted IAM containing a Calling party			
			initial INVITE is sent. The Calling party			
			ent in the P-Asserted-Identity header			
			ess is equal to 'NSAP', the isub-			
	encoding parameter is set to 'nsap-ia5'.					
ISUP Parameter values	IAM: Access Transport					
		y subaddress				
	, , ,	Subaddress=NSAP				
	Subaddress digits					
SIP Parameter values	INVITE: P-Asserted	-Identity:				
	isub					
	uric digits derived from the Calling party Subaddress digits					
	isub	-encoding=nsap-ia5				
Comments						
Message flows	SIP-I MGCF SIP NNI					
	INVITE (IAM) → INVITE					
	← 100 Trying					
	Apply post test routine					

TP number	TP_304_010		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 Calli	ng Party su	baddress in the IAM	1		
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 not mapped into an isub parameter present in the P-Asserted-Identity header in the INVITE if the Type of number of the subaddress is not equal to 'NSAP'					
ISUP Parameter values	IAM: Access Transport Calling party subaddress Type of Subaddress not NSAP Subaddress digits					
SIP Parameter values						
Comments						
Message flows	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			
	11 _00 1_011	The state of the s	[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 the 200 OK into the Connected party subaddress in the ANM					
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK					
_	(INVITE), a 200 OK (INVITE	(INVITE), a 200 OK (INVITE) with encapsulated ANM is sent and the received Subaddress				
			ne Access Transport parameter			
			values 'nsap-ia5', 'nsap-bcd' or			
	'nsap' are relevant for mapp	ing				
ISUP Parameter values	ANM: Access Transport					
	Connected party					
	Type of Subaddress=NSAP					
OID D	Subaddress digits derived from the uric of the isub parameter					
SIP Parameter values	200 OK: P-Asserted-Identity:					
	isub					
	uric Subaddress digits isub-encoding: Not present					
	nsap-ia5					
	nsap-bcd					
		nsap				
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM) →	-	INVITE			
	180 Ringing ←	•	- 180 Ringing			
	(ACM - free)					
	200 OK (INVITE) ← 200 OK (INVITE)					
	(ANM)					
	ACK →	-3	ACK			
		Apply post test routine				

TP number	TP_304_012	Re	ference	[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 param	eter in the 2	200 OK into the Connecte	d party subaddress in the ANM
Test Purpose	Ensure that on receipt of an isub parameter present in the P-Asserted-Identity in a 200 OK (INVITE), an ANM is sent and the received Subaddress is not mapped in the Connected party subaddress present in the Access Transport parameter in the ANM If the isub-encoding parameter is present and the value is not equal to 'nsap-ia5', 'nsap-bcd' or 'nsap'			
ISUP Parameter values				
SIP Parameter values	200 OK: P-Asserted-	Identity:		
	isub			
	isub-encoding: Not nsap-ia5, nsap-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	number and Redirection Information
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number parameter, a Original called number and a Redirection Information parameter Redirecting reason indicator is set to REAS_value as indicated in table 6.2.5-42, an INVITE request is sent and no History-Info header is present. The call setup is not disrupted		
ISUP Parameter values	IAM: Redirecting 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 re	outine

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

	REAS_value
VA_01	Unknown
VA_02	Unconditional
VA_03	User Busy
VA_04	Deflection immediate response
VA 05	Mobile subscriber not reachable

TP number	TP_305_066	Reference	[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/				
Selection criteria	NOT PICS 6.3.2/5				
Test Purpose name	No mapping of ACM Redire	ction number and Call diver	rsion information		
Test Purpose	the Call diversion paramete table 6.2.5-43 is present as	Ensure that on receipt of a 180 Ringing with encapsulated ACM a Redirection number and the Call diversion parameter the Redirecting reason is set to REAS_value as indicated in table 6.2.5-43 is present as an indication a call diversion occurred, a 180 Ringing is sent and no History-Info header is present. The call setup is not disrupted			
ISUP Parameter values	Redirection numb	ACM/CPG: Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS_value			
SIP Parameter values					
Comments					
Message flows	SIP NNI INVITE CASE A 180 Ringing 181 Being forwarded CASE B 181 Being forwarded	← ←	SIP-I → INVITE (IAM) ← 180 Ringing (ACM) ← 183 Session Progress (CPG) ← 183 Session Progress (ACM) ine		

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
T00	DOTAL OG/FOT/		[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 r		' in a reINVITE with
	encapsulated FAC was received		
Test Purpose	I-MGCF: A session is on hold.		
	FAC message and the Generic		
	reINVITE is sent the a attribute		<i>!</i> '
ISUP Parameter values	FAC: Generic notification=train	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) →	→	200 OK (INVITE)
	ACK ←	+	ACK
	INVITE 3	←	INFO (FAC(call transfer, active))
	200 OK (INVITE) → ACK ←		200 OK (INFO)
	,,,,,,	Apply post test routine	

TP number	TP_306_002	Reference		[1], clause 7.2.1
Ti Hamber	11 _300_002	Kererence		[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/			[[2], clause 7.4.6
Selection criteria	PICS 6.3.2/6			
		a matification last transfer		al in a maINIV/ITE with
Test Purpose name	A session is retrieved when			ig in a reinvite with
Took Durmood	encapsulated FAC was rec			INIVITE with an appendated
Test Purpose				eINVITE with encapsulated
	FAC message and the Gen			
	reINVITE is sent the a attrib		endrec\	<u>/'</u>
ISUP Parameter values	FAC: Generic notification=	transfer alerting		
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)
	1.0099	_	_	
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)
	ACK	- -	À	ACK
	AOR		•	AOR
	INVITE 2	←	←	INVITE 2 (CPG(hold))
		→	•	
	200 OK (INVITE)			200 OK (INVITE)
	ACK	←		ACK
	INIVITE O	_	_	INICO
	INVITE 3	←	←	INFO
	000 014 (INI) (ITE)	_		(FAC(call transfer, alerting)
	200 OK (INVITE)	→	→	200 OK (INFO)
	ACK	←		
		Apply post test rou	utine	

TP number	TP_306_003	Reference	[1], clause 7.2.1 [2], clause 7.4.8		
TSS reference	PSTN-SS/ECT/		[2], Clause 7.4.6		
Selection criteria	PICS 6.3.2/6				
	A session is retrieved when a	notification lead transfer	notive! in a ralNI\/ITE with		
Test Purpose name					
Toot Durmage	encapsulated CPG was received				
Test Purpose			of a reINVITE with encapsulated		
	CPG message and the Gener reINVITE is sent the a attribute				
ISUP Parameter values	CPG: Generic notification=tra		larecv		
SIP Parameter values		ansier active			
SIP Parameter values	INVITE 2 SDP a=sendonly INVITE 3 SDP a=sendrecv				
Comments	INVITE 3 SDF a=sendrecv				
	SIP NNI	MGCF	SIP-I		
Message flows	INVITE +	WIGCF	INVITE (IAM)		
	=	→			
		→ →	100 Trying		
	180 Ringing →	7	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 ←	·	ACK		
	INVITE 3	←	INFO		
	(CPG(call transfer, active))				
	200 OK (INVITE) →	→	200 OK (INFO)		
	ACK ←				
		Apply post test routi	ne		

TP number	TP_306_004	F	Reference	[1], clause 7.2.1
TCC vofevence	DOTAL CO/FOT/			[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/			
Selection criteria	PICS 6.3.2/6			L C L L INDUTE CO
Test Purpose name				alerting' in a reINVITE with
	encapsulated CPG wa			
Test Purpose				of a reINVITE with encapsulated
				set to 'call transfer, alerting', a
	reINVITE is sent the a			ndrecv'
ISUP Parameter values	CPG: Generic notifica		sfer alerting	
SIP Parameter values	INVITE 2 SDP a=send			
	INVITE 3 SDP a=send	Irecv		
Comments				
Message flows	SIP NNISIP-I		MGCF	SIP-I
	INVITE	←	+	INVITE (IAM)
	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)	→	→	200 OK (INVITE)
	ACK	←	←	ACK
	INVITE 3	←	←	INFO (CPG(call transfer, alerting))
	200 OK (INVITE)	→	→	200 OK (INFO)
	ACK	(
			Apply post test rout	ine

TP number	TP_306_005	Reference	[1], clause 7.2.1 [2], clause 7.4.8	
TSS reference	PSTN-SS/ECT/		16 47	
Selection criteria	PICS 6.3.2/6			
Test Purpose name	reINVITE with encapsulated Famapping	AC with generic notification 'ca	Il transfer, active' received, no	
Test Purpose	I-MGCF: Ensure that on receipt of a reINVITE with encapsulated FAC message and the Generic notification indicator is coded as 'call transfer, active' and the session is not on hold, no mapping occurs on the SIP side			
ISUP Parameter values	FAC: Generic notification=tra	nsfer active		
SIP Parameter values				
Comments				
Message flows	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK	MGCF	SIP-I INVITE (IAM) 180 Ringing (ACM) 200 OK (INVITE) (ANM) 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, i	no mapping	
Test Purpose	I-MGCF: Ensure that on receip	t of a reINVITE with encapsula	ted 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=tran	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)	
	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 encaps	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	urs on the	SIP side	
ISUP Parameter values	CPG: Generic notific	ation=tran	sfer 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	Reference	[1], clause 7.2.1
	11 _000_000	Ttolorolloo	[2], clause 7.4.8
TSS reference	PSTN-SS/ECT/		[[2], 014400 7.1.0
Selection criteria	PICS 6.3.2/6		
		CDC with gaparia patificati	ion 'call transfer, alerting' received,
Test Purpose name	•	CPG with generic notificati	ion can transfer, alerting received,
	no mapping		
Test Purpose			apsulated CPG message and the
			alerting' and the session is not on
	hold, no mapping occurs on	he SIP side	
ISUP Parameter values	CPG: Generic notification=t	ransfer alerting	
SIP Parameter values			
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →	→	INVITE (IAM)
	100 Trying ←	←	100 Trying
	180 Ringing ←	+	ACM (180 Ringing)
	100 1 11191119	-	7.0m (100 1g.n.g)
	200 OK (INVITE)	+	200 OK (INVITE) (ANM)
	ACK →	· •	ACK
	ACK	7	ACK
		←	INFO (CPG(call transfer, alerting))
		→	200 OK (INVITE)
			7
		Apply post test rout	ine

6.2.7 Void

6.2.8 Call Hold

TP number	TP_308_001	Reference	[1], clause 7.2	
			[2], clause 7.4	1.10
TSS reference	PSTN-SS/HOLD/			
Selection criteria	PICS 6.3.2/9			
Test Purpose name	Hold and Retrieve requested f			
Test Purpose	Ensure that on receipt of an IN	IVITE or UPDATE with enca	osulated CPG me	ssage and the
	Generic notification is set to 'R			ITE or
	UPDATE is sent. The media s			. 15
	Ensure that on receipt of a CP			
ISUP Parameter values	retrieval', an INVITE or UPDA	IE is sent. The media stream	in the SDP is se	t to senarecv
ISUP Parameter values	CPG: Generic notification			
	Remote hold			
SIP Parameter values	Remote retrieval INVITE/UPDATE:SDP 1			
Sir raiailletei values	a=sendo	nly		
	SDP 2	illy		
	a=sendre	2CV		
Comments	u-soriare	,,,,		
Message flows	SIP NNI	MGCF		SIP-I
		stablish a confirmed dialo	gue	
	CASE A		_	
	INVITE(SDP 1 = sendonly)	←	← INVITE	(SDP 1 =
	,		sendonly	y) (CPG(hold))
	200 OK (INVITE)	→		(INVITE)
	ACK	←	← ACK	,
	CASE B			
	UPDATE(SDP 1 = sendonly)	←		E (SDP 1 =
				y) (CPG(hold))
	200 OK (UPDATE)	→	→ 200 OK	(UPDATE)
	CASE A			
	INVITE(SDP 2 = sendrecv)	←		SDP 2 =
			sendrec	
			CPG(ret	rieve)
	000 OK (INI) (ITE)	•	> 000 OK	/INI\ /ITE\
	200 OK (INVITE)	→ ←		(INVITE)
	ACK	~	← ACK	
	CASE B			
	UPDATE(SDP 2 = sendrecv)	←	← UPDATE	E (SDP 2 =
	OF DATE(SUP Z = Selidiecv)	~	sendrec	
			CPG(ret	
	200 OK (UPDATE)	→		(UPDATE)
	200 011 (01 27112)	Apply post test routine	2 200 OK	(3, 5, (12)
		Apply post tost 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				
Test Purpose		NVITE request in the confirmed endonly', a INVITE with encaps			
	the Generic notification indica		anatou of o moodage to com		
	Ensure that on receipt of an II	NVITE request in the confirmed	dialogue and the media		
	stream in the SDP is set to 'se	endrecv', a CPG message is se	nt the Generic notification		
	indicator is set to 'remote retri	eval'			
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
	Remote retrieval				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendo	only			
	SDP 2				
	a=sendr	ecv			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
		Establish a confirmed dialogu			
	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		
ir number	TF_306_003	Kelefelice	[1], clause 7.2.1 [2], clause 7.4.10		
TSS reference	PSTN-SS/HOLD/		[[2], clause 1.4.10		
Selection criteria	PICS 6.3.2/9				
Test Purpose name	Hold and Retrieve requested f	rom SID in LIDDATE request			
Test Purpose		PDATE request in the confirme	ad dialogue and the media		
rest i dipose			osulated CPG message is sent		
	the Generic notification indicate		osulated Of O message is sent		
	Ensure that on receipt of an U		ed dialogue and the media		
	stream in the SDP is set to 'se				
	indicator is set to 'remote retrie	,			
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			
	UPDATE(sendonly)	→	UPDATE(sendonly) (CPG(hold))		
	200 OK (UPDATE)	·	200 OK (UPDATE)		
	ACK → ACK				
	UPDATE(sendrecv) → UPDATE(sendrecv) (CPG(retrieve))				
	200 OK (UPDATE)	- ←	200 OK (UPDÄTE)		
	ACK -	→	ACK		
		Apply post test routine	_		

TP number	TP_308_004	Reference	[1], clause 7.2.1
			[2], clause 7.4.10
TSS reference	PSTN-SS/HOLD/		IL 3'
Selection criteria	PICS 6.3.2/9		
Test Purpose name	Hold requested from both ends	, session inactive sent	
Test Purpose	Ensure that on receipt of a INV	ITE with encapsulated CPG me	essage and the Generic
	notification indicator is set to 're	emote hold' und the session wa	s set on hold before, an
	INVITE or UPDATE request is	sent and the media stream is so	et to 'inactive'
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1		
	a=sendor	ıly	
	SDP 2		
	a=inactive	9	
Comments	OID MAIL	NOOF.	OID I
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	7	→ ACK
	CASE A		
		←	★ INVITE(SDP 2 =)
	INVITE(SDP 2 = inactive)	-	← INVITE(SDP 2 = inactive)
			(CPG(hold))
	200 OK (INVITE)	→	→ 200 OK (INVITE)
	ACK	4	← ACK
	AOR	•	AON
	CASE B		
	UPDATE(SDP 2 = inactive)	←	← UPDATE(SDP 2 =
	2. 2 (ODI 2 = maonvo)	-	inactive) (CPG(hold))
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)
		Apply post test routine	=30 0 (0. 2=)

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		
	media stream in the SDP is set		capsulated CPG message is
	sent and the Notification indicate	tor is set to 'remote hold'	
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1		
	a=sendon	ıly	
	SDP 2		
	a=inactive	9	
Comments	OID MM		OID I
Message flows	SIP NNI	MGCF	SIP-I
		stablish a confirmed dialogue	e
	CASE A	-	7 INDUTE/ODD 4
	INVITE(SDP 1 = sendonly)	←	← INVITE(SDP 1 = condend) (CDC(hold))
	200 OK (INIVITE)	_	sendonly) (CPG(hold))
	200 OK (INVITE) ACK	→	→ 200 OK (INVITE) ← ACK
	ACK	•	€ ACK
	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 =
	000 OK (IN) (ITE)		inactive) (CPG(hold))
	200 OK (INVITE)	(← 200 OK (INVITE)
	ACK	Apply post tost routing	→ ACK
		Apply post test routine	

TP number	TP_308_006	Reference		clause 7.2.1	
			[2],	clause 7.4.10	
TSS reference	PSTN-SS/HOLD/				
Selection criteria	PICS 6.3.2/9				
Test Purpose name		inactive, Retrieve requested fro			
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 request and the media stream in the SDP is set to 'recvonly', a INVITE or UPDATE with encapsulated CPG message is sent and the Generic notification indicator				
		ed CPG message is sent and th	ie Gen	ieric notification indicator	
ISUP Parameter values	is set to 'remote retrieval'				
150P Parameter values	CPG 1: Generic notification Remote hold				
	CPG 2: Generic notificatio	ın.			
	Remote retriev				
SIP Parameter values	INVITE/UPDATE:SDP 1	, car			
on randingtor values	a=send	lonly			
	SDP 2				
	a=inact	ive			
	SDP 3				
	a=recvo	only			
Comments					
Message flows	SIP NNI	MGCF		SIP-I	
		Establish a confirmed dialog			
	INVITE(SDP 1 = sendonly)	→	→	INVITE(SDP 1 =	
				sendonly)	
	202 014 (INI) (ITE)	-	-	(CPG 1 (hold))	
	200 OK (INVITE)	((200 OK (INVITE)	
	ACK	→	→	ACK	
	CASE A				
	INVITE(SDP 2 = inactive)	←	+	INVITE(SDP 2 =	
	INVITE(SDP 2 = Inactive)	•	_	inactive)	
				(CPG 1 (hold))	
	200 OK (INVITE)	→	→		
	ACK	←	+	ACK	
		-	-	7.0.1	
	CASE B				
	UPDATE(SDP 2 = inactive)	←	←	UPDATE(SDP 2 =	
				inactive) `	
				(CPG 1 (hold))	
	200 OK (UPDATE)	→	→	200 OK (UPDATE)	
	INVITE(SDP 3 = recvonly)	→	→	INVITE(SDP 3 =	
				recvonly)	
		_		(CPG 2 (retrieve))	
	200 OK (INVITE)	(200 OK (INVITE)	
	ACK	Annhouset test pouting		ACK	
		Apply post test routine			

TP number	TP_308_007	Reference	[11]	lause 7.2.1	
	505_507			clause 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 requested from ISUP				
Test Purpose	The session is set on hold at first from SIP as well as second from SIP-I. Ensure that receipt of an INVITE or UPDATE with encapsulated CPG message and the Generic				
	notification indicator is set to '		IVITE or UPDA	TE request is sent and	
	the media stream in the SDP	l set to 'recvonly'			
ISUP Parameter values	CPG: Generic notification				
	Remote hold				
SIP Parameter values	INVITE/UPDATE:SDP 1				
	a=sendo	nly			
	SDP 2				
	a=inactiv	/e			
	a=recvoi	alv			
Comments	a=recvoi	пу			
Message flows	SIP NNI	MGC	F	SIP-I	
incoouge news	_	stablish a confirmed		OII -I	
	INVITE(SDP 1 = sendonly)	→	a dialogue →	INVITE(SDP 1 =	
	intvitiz(GB: 1 = GG:lide:lily)	-	_	sendonly)	
				(CPG(hold))	
	200 OK (INVITE)	←	←	200 OK (INVITE)	
	ACK	→	→	ACK	
	CASE A				
	INVITE(SDP 2 = inactive)	←	←	INVITE(SDP 2 =	
	(1			inactive)CPG(hold)	
	200 OK (INVITE)	→	→	200 OK (INVITE)	
	ACK	←	(ACK	
	CASE B				
	UPDATE(SDP 2 = inactive)	←	←	UPDATE(SDP 2 =	
	,			inactive)	
				(CPG(hold))	
	200 OK (UPDATE)	→	→	(UPDATE)	
	CASE C				
	INVITE(SDP 3 = recvonly)	←	+	INVITE(SDP 3 =	
				recvonly)	
		_	_	(CPG(retrieve))	
	200 OK (INVITE)	→	→	200 OK (INVITE)	
	ACK	←	←	ACK	
	CASE D	_	-		
	UPDATE(SDP 3 = recvonly)	←	-	UPDATE(SDP 3 =	
				recvonly)	
	200 OK (LIDDATE)	_		(CPG(retrieve))	
	200 OK (UPDATE)	→	→	200 OK (UPDATE)	
		Apply post test re	outine		

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		
			SDP is set to 'recvonly', a INVITE
		I CPG message is sent and t	he Generic notification indicator
	is set to 'remote retrieval'		
ISUP Parameter values	CPG: Generic notification		
OID D	Remote hold		
SIP Parameter values	INVITE/UPDATE:SDP 1	I	
	a=sendor	nıy	
	a=inactiv SDP 3	C	
	a=recvor	nly	
Comments	4-100001	ıı y	
Message flows	SIP NNI	MGCF	SIP-I
	_	stablish a confirmed dialog	
	CASE A		9
	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 =
	,		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
	INIVITE/CDD 2	→	- INIVITE/CDD 2
	INVITE(SDP 3 = recvonly)	7	→ INVITE(SDP 3 =
			recvonly) (CPG(retrieve))
	200 OK (INVITE)	←	← 200 OK (INVITE)
	ACK	→	→ ACK
	AUN	<u>-</u>	→ AUN
		Apply post test routine	

TP number	TP_308_009	Reference	[1], clause 7.2.1 [2], clause 7.4.10		
TSS reference	PSTN-SS/HOLD/		[[2], Clause 7.4.10		
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 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	nly			
	SDP 2				
	a=inactiv	е			
	SDP 3	L .			
Comments	a=recvon	ıy			
Message flows	SIP NNI	MGCF	SIP-I		
wessage nows		stablish a confirmed dialog			
	CASE A	stabilish a commined dialog	gue		
	INVITE(SDP 1 = sendonly)	(← INVITE(SDP 1 =		
	invitiz (ODI 1 = Schoolily)	•	sendonly)		
			(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)		
	INIVITE (SDD 2 in active)	→	→ INVITE(SDP 2 =		
	INVITE(SDP 2 = inactive)	7	→ INVITE(SDP 2 = inactive)		
			(CPG(hold))		
	200 OK (INVITE)	←	← 200 OK (INVITE)		
	ACK	→	→ ACK		
	CASE C				
	INVITE(SDP 3 = recvonly)	←	← INVITE(SDP 3 =		
			recvonly)		
			(CPG(retrieve))		
	200 OK (INVITE)	→	→ 200 OK (INVITE)		
	ACK	←	← ACK		
	040F D				
	CASE D		4 LIDDATE		
	UPDATE(SDP 3 = recvonly)	←	← UPDATE (SDB 3 = recventy)		
			(SDP 3 = recvonly) (CPG(retrieve))		
	200 OK (UPDATE)	→	→ 200 OK (UPDATE)		
		Apply post test routine	2 200 011 (01 01112)		
		Apply post test routille			

TP number	TP_308_010	Reference	[1], clause 7.3.1			
Tr mamber	11 _300_010	Kelerence	[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 is sent in early dialogue			
Test Purpose			eric notification indicator is set to			
			e UPDATE request indicating the			
			ng a 180 Ringing is established.			
	The media stream in the SDP					
ISUP Parameter values	CPG: Generic notification	is set to seriesya.saa	ing and more state			
	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)					
		→	UPDATE(sendonly)			
		←	200 OK (UPDATE)			
		Apply post test routing	ne			

TP number	TP_308_011		Reference		[1], clause 7.3.1 [2], clause 7.4.10.2	
TSS reference	PSTN-SS/HOLD/				[[2], clause 7.4.10.2	
Selection criteria	PICS 6.3.2/9 AND PICS	6 3 6/1				
Test Purpose name				chod	UPDATE is sent in confirmed	
rest ruipose name	dialogue	ne an ui	alogue was establi	SHEU	OF DATE is sent in commined	
Test Purpose	notification indicator is s INVITE or UPDATE req	Ensure that on receipt of a UPDATE with encapsulated CPG message and the Generic notification indicator is set to 'remote hold' before an early dialogue is established, the INVITE or UPDATE request indicating the hold indication is sent after the confirmed dialogue by receiving a 200 OK (INVITE) is established. The media stream in the SDP is				
ISUP Parameter values	CPG: Generic notificat Remote hold					
SIP Parameter values	INVITE/UPDATE:SDP a=	INVITE/UPDATE:SDP a=sendonly				
Comments						
Message flows	ISIP-I		MGCF		SIP NNI	
	INVITE (IAM)	→		→	INVITE	
	100 Trying	←		+	100 Trying	
	UPDATE (CPG(hold)) 200 OK (UPDATE)	→				
	200 OK (INVITE) (CON)	←		←	200 OK (INVITE)	
	ACK → CASE A					
				→	INVITE(sendonly)	
				←	200 OK (INVITE)	
				→	ACK	
	CASE B			_		
				→	UPDATE(sendonly)	
				←	200 OK (UPDATE)	
			Apply post test	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 6.3.6/1				
Test Purpose name	1 .	ed CPG hold received aft last established early dia	er several early dialogues was established logue			
Test Purpose	CPG message and the	Two early dialogues are established. Ensure that on receipt of a INFO with encapsulated CPG message and the Generic notification indicator is set to 'remote hold', an UPDATE request is sent on the latest established early dialogue				
ISUP Parameter values		CPG: Generic notification Remote hold				
SIP Parameter values		180 1: To: <appropriate uri="">; tag=1 180 1: To: <appropriate uri="">; tag=2</appropriate></appropriate>				
Comments		III-ID and the From tag ar	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
	DOTAL COMICE DA		[2], clause 7.4.10.2
TSS reference	PSTN-SS/HOLD/		
Selection criteria	PICS 6.3.2/9 AND PICS 6.3.6	•	
Test Purpose name			r SDP offer answer exchange
Test Purpose			ession was set on hold indicating
	a new SDP, an UPDATE requ		stream is set to 'sendonly' to
	refresh the previous held state	Э	
ISUP Parameter values	CPG: Generic notification		
	Remote hold		
SIP Parameter values	INVITE: SDP1		
	UPDATE 1: SDP a=sendon	ly	
	UPDATE 2: SDP 2		
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE(SDP1) (IAM) →	→	INVITE(SDP1)
	180 Ringing (ACM − free)	←	180 Ringing
	UPDATE 1 (sendonly) → CPG(hold)	→	UPDATE 1 (sendonly)
	200 OK (UPDATE) ←	←	200 OK (UPDATE)
	UPDATE 2 (SDP2) ← CPG(hold)	←	UPDATE 2 (SDP2)
	200 OK (UPDATE) →	→	200 OK (UPDATE)
	UPDATE 1 (sendonly) → CPG(retrieve)	→	UPDATE 1 (sendonly)
	200 OK (UPDATE)	←	200 OK (UPDATE)
		Apply post test routing	ie

TP number	TP_308_014		Reference	[1], clause 7.3.1				
	000_011			[2], clause 7.4.10.2				
TSS reference	PSTN-SS/HOLD/							
Selection criteria	PICS 6.3.2/9 AND PIC	S 6.3.6/1	1					
Test Purpose name	An UPDATE (hold) is s	ent after	an additional early dial	ogue is established				
Test Purpose				re that on receipt of a 180 Ringing				
		establish a new early dialogue, an UPDATE request is sent on this dialogue and the media						
	stream is set to 'sendo	_						
ISUP Parameter values	CPG: Generic notifica							
		Remote hold						
SIP Parameter values	180 1: To: <appropriat< th=""><th></th><th></th><th></th></appropriat<>							
	180 1: To: <appropriat< th=""><th>e URI>;</th><th>tag=2</th><th></th></appropriat<>	e URI>;	tag=2					
	LIDDATE O. T		LIDI - 4 0					
Comments	UPDATE 2: To: <app< th=""><th>propriate</th><th>URI>; tag=2</th><th></th></app<>	propriate	URI>; tag=2					
Comments Message flews	SIP-I		MCCE	SIP NNI				
Message flows	INVITE (IAM)	→	MGCF	INVITE				
	180 Ringing 1	-						
	(ACM – free)	_	~	180 Ringing 1				
	(ACIVI – II'ee)							
	UPDATE CPG(hold)	→	→	UPDATE 1 (sendonly)				
	200 OK (UPDATE)	÷	÷	200 OK (UPDATE)				
	200 OK (OF BATE)	•	•	200 OK (OF BATE)				
			←	180 Ringing 2				
			→	UPDATE 2 (sendonly)				
		→ UPDATE 2 (sendonly) ← 200 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/			[[2], clause 7.4.10.2
Selection criteria	PICS 6.3.2/9 AND PICS	6 3 6/	1	
Test Purpose name				0 OK INVITE was received when a
rest i dipose name	CPG (hold) was received	`	,	O OK IIVVITE was received when a
Test Purpose				as received in the early dialogue.
				ng the confirmed dialogue, an
				am is set to 'sendonly' indicating the
	held state			,
ISUP Parameter values	CPG: Generic notificat	ion		
	Remote hold			
SIP Parameter values	INVITE/UPDATE 2: SI)P		
		a=sen	donly	
Comments				
Message flows	SIP-I		MGCF	SIP NNI
	INVITE (IAM)	→	→	INVITE
	180 Ringing	←	←	180 Ringing
	(ACM – free)			
	UPDATE (CPG(hold))	→	→	UPDATE(sendonly)
	200 OK (UPDATE)	←	+	200 OK (UPDATE)
	200 OK (INVITE) (ANM)	←	+	200 OK (INVITE)
	ACK	→	→	ACK
	CASE A		→	INVITE 2 (sendonly)
			←	200 OK (INVITE)
			→	ACK
	CASE B		→	UPDATE 2 (sendonly)
			←	200 OK (UPDATE)
			Apply post test rout	ine

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	'sendonly' and 'sendrecy	v' received from the te	rminating 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 th	Ensure that on receipt of an UPDATE request in the early dialogue and the media stream is already set on hold the media stream is set to 'sendrecv' in the received UPDATE, a CPG message is sent and the Generic notification indicator is set to 'remote retrieval'				
ISUP Parameter values						
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF		SIP NNI		
	INVITE IAM	→		VITE 0 Trying		
	180 Ringing (ACM – free)	←	← 18	0 Ringing		
	UPDATE(sendonly) (CPG(hold))	←	← UF	PDATE(sendonly)		
	200 OK (UPDATE)	→	→ 20	0 OK (UPDATE)		
	UPDATE(sendrecv) CPG(retrieve)	←	← UF	PDATE(sendrecv)		
	200 OK (UPDATE)	→	→ 20	0 OK (UPDATE)		
		Apply post	test routine			

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' recei	ved from the originating SIP us	ser in the early dialogue
Test Purpose	Ensure that on receipt of an UI	PDATE request in the early dia	logue and the media stream
	is set to 'sendonly', a UPDATE	with encapsulated CPG mess	age is sent and the Generic
	notification indicator is set to 're	emote hold'.	
	Ensure that on receipt of an UI		
	is set to 'sendonly' the session	is already set on hold, a CPG	message is sent and the
	Generic notification indicator is	set to 'remote retrieval'	
ISUP Parameter values			
SIP Parameter values			
Comments			
Message flows	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	om the originating PSTN us	ser in the early dialogue
Test Purpose			ric notification indicator is set to
		gue, an UPDATE request i	s sent and the mediastream is set
	to 'sendonly'.		
			ric notification indicator is set to
	'remote retrieval' and the sessi	on is already set on hold, a	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) →	→	UPDATE(sendrecv)
	(CPG(retrieve))		
	200 OK (UPDATE) ←	←	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 6.3.2/	10			
Test Purpose name	The diagnostic field is not inter	worked			
Test Purpose	Ensure that on receipt of an REL message cause #17 and a diagnostic field is present set to 'CCBS possible', a final SIP response 486 Busy Here is sent no indication of CCBS				
IOUD Developed	facility is present		State -		
ISUP Parameter values	REL: Cause indicator CCBS	possible indicator=CCBS poss	ible		
SIP Parameter values					
Comments	The CCBS possible indicator is	s contained in the diagnostic fie	eld 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	S 6.3.2/11				
Test Purpose name	CCNR possible indicati	ion received in an ACM, dis	carded			
Test Purpose		Ensure that on receipt of an ACM and a CCNR possible indicator is present the value set to 'CCNR possible', a 180 Ringing is sent without indication of CCNR facility				
ISUP Parameter values	ACM: BCI called party possible	status indicator=subscriber	free, CCNR Possible Indicator=CCNR			
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	Refer	ence	[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 in	an CPG, discarde	d		
Test Purpose		Ensure that on receipt of an CPG and a CCNR possible indicator is present the value set to 'CCNR possible', a 180 Ringing is sent without indication of CCNR facility				
ISUP Parameter values		ACM: BCI called party status indicator=no indication, oBCI=inband info available CPG: Event indicator= ALERTING, CCNR Possible Indicator=CCNR possible				
SIP Parameter values				·		
Comments						
Message flows	SIP NNI		MGCF	SIP-I		
	INVITE	→		→ INVITE (IAM)		
	100 Trying	←		← 100 Trying		
				← 183 Session Progress		
				(ACM(no indication))		
	180 Ringing	←		 180 Ringing (CPG) 		
		Арр	ly post test routii	ne		

6.2.11 Terminal Portability (TP)

TP number	TP_311_001	Reference		[1], clause 7.2.1	
				[2], clause 7.4.13	
TSS reference	PSTN-SS/TP/				
Selection criteria	PICS 6.3.2/12				
Test Purpose name	SUS user initiated is map	ped into an reINVITE SDI	P sendonly	У	
Test Purpose				/Resume indicator is set to stream indicated in the SDP is	
	set to 'sendonly'	.,		5.1.54.11 11.4.154.154 11.1 11.5 5.2 1 1.5	
ISUP Parameter values	SUS: Suspend/Resume				
	ISDN subscrib				
SIP Parameter values	INVITE 2: SDP				
	a=sendonly	y			
Comments					
Message flows	SIP NNI	MGCF		SIP-I	
	INVITE 1	→	→	INVITE (IAM)	
	100 Trying	←			
	180 Ringing	←	←	180 Ringing (ACM free)	
	200 OK (INVITE)	←	←	200 OK (INVITE) (ANM)	
	ACK	→	→	ACK	
	INVITE 2(sendonly) 200 OK (INVITE) ACK	← → ←	← →	INFO (SUS(user)) 200 OK (INFO)	
		Apply post test	routine		

TP number	TD 044 000		Deference	l.	41 -1 7.0.4
IP number	TP_311_002		Reference		1], clause 7.3.1
					2], clause 7.4.13
TSS reference	PSTN-SS/TP/				
Selection criteria	PICS 6.3.2/12				
Test Purpose name			nto an reINVITE SDP se		
Test Purpose	A SUS message and the	A SUS message and the Suspend/Resume indicator is set to 'ISDN subscriber initiated'			
	was received. Ensure that on receipt of an RES message and the Suspend/Resume				
		indicator is set to 'ISDN subscriber initiated', a reINVITE is sent and the media stream			
10115 5	indicated in the SDP is		enarecv ⁻		
ISUP Parameter values	RES: Suspend/Resun				
	ISDN subsci	riber initi	ated		
SIP Parameter values	INVITE 2: SDP				
	a=sendo	nly			
	INVITE 3: SDP				
	a=sendre	ecv			
Comments					
Message flows	SIP-I	_	MGCF		SIP NNI
	INVITE 1 (IAM)	→	→	INVIT	
			←	100 T	, ,
	180 Ringing	←	←	180 R	inging
	(ACM – free)				
		_	_		
	200 OK (INVITE)	←	+	200 C	K (INVITE)
	(ANM)	_	_		
	ACK	→	→	ACK	
	INVITE 2(sendonly)	←	+	INEO	(SUS(user))
	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	→	~		. , , , , , , , , , , , , , , , , , , ,
	200 OK (INVITE)	-		200 C	K (INFO)
	ACK	~			
	INVITE 3(sendrecv)	(+	INIEO	(RES(user))
		→	→		
	200 OK (INVITE)	→	7	200 C	K (INFO)
	ACK	_	Annly neet toot	in a	
	Apply post test routine				

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

TP number	TP_312_001	Ref	erence	[1], clause 7.2.1
				[2], clause 7.4.14
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/1 AND F	PICS 6.3.2/13		
Test Purpose name	I-MGCF: Session no	ot on hold, notif	ication 'conference establ	ished'
Test Purpose	A session at the I-M	IGCF is in the c	onfirmed state and not se	et on hold. Ensure that on
	receipt of a reINVIT	E with encapsu	lated CPG message the	Generic notification indicator is
	set to 'Conference e	established' no i	reINVITE is sent	
ISUP Parameter values	CPG: Generic notif	fication		
	Conference established			
SIP Parameter values				
Comments	This state is applica	ble for CONF a	nd 3PTY	
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 (CPG)
			→	200 OK (INFO)
	Apply post test routine			

TP number	TP 312 002	Reference		[1], clause 7.3.1		
				[2], clause 7.4.14		
TSS reference	PSTN-SS/CONF/	l .		16 17		
Selection criteria	PICS 6.3.1/1 AND PICS 6	PICS 6.3.1/1 AND PICS 6.3.2/13				
Test Purpose name	O-MGCF: Session not on	O-MGCF: Session not on hold, notification 'conference established'				
Test Purpose	A session at the O-MGCF	is in the confirmed state	and not se	t on hold. Ensure that on		
	receipt of a reINVITE with	encapsulated CPG mess	sage the G	eneric notification indicator is		
	set to 'Conference establi	shed no reINVITE is sent	t			
ISUP Parameter values	CPG: Generic notification	n=				
	Conference	established				
SIP Parameter values						
Comments	This state is applicable fo	This state is applicable for 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)	7				
	200 OK (IINFO)	=	routino			
1	Apply post test routine					

TP number	TP_312_003	Reference	[1], clause 7.2.1 [2], clause 7.4.14	
TSS reference	PSTN-SS/CONF/		[[2], claded 1.111	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/13		
Test Purpose name	I-MGCF: Session on hold, not		ablished'	
Test Purpose	A session at the I-MGCF is in the confirmed state and set on hold. Ensure that on receipt of an INVITE with encapsulated CPG message the Generic notification indicator is set to 'Conference established' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv' On receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference established' <u>no</u> reINVITE request is sent the 'a' attribute in the SDP is			
ISUP Parameter values	CPG 1: Generic notification Remote hold	Remote hold CPG 2: Generic notification		
SIP Parameter values	INVITE 1: SDP a=sendonly INVITE 2: SDP a=sendrecv			
Comments	This state is applicable for 3P	TY		
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 rou	← INFO(CPG 2) → 200 OK INFO	

TP number	TP_312_004	Reference	[1], clause 7.3.1 [2], clause 7.4.14	
TSS reference	PSTN-SS/CONF/	l	[2], claded 1	
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/13	3		
Test Purpose name	O-MGCF: Session on hold, notif		ed'	
Test Purpose	A session at the O-MGCF is in the confirmed state and set on hold. Ensure that on receipt			
	of a INVITE with encapsulated CPG message the Generic notification indicator is set to			
	'Conference established' a reINVITE request is sent the 'a' attribute in the SDP is set to			
	'sendrecv'	•		
	On receipt of an INFO with enca			
	is set to 'Conference established		nt the 'a' attribute in the SDP is	
	set to 'sendrecv' will be sent (CA	SE B)		
ISUP Parameter values	CPG 1: Generic notification			
	Remote hold			
	CPG 2: Generic notification	e i i		
SIP Parameter values	Conference estab	lisnea		
SIP Parameter values	INVITE 1: SDP			
	a=sendonly INVITE 2: SDP			
	a=sendrecv			
Comments	This state is applicable for 3PTY	,		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→ →	INVITE	
	(4 4.1.)	←	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)	→ →	INVITE 2 (sendrecv)	
	200 OK INVITE (sendrecv)	+ +	200 OK INVITE (sendrecv)	
	ACK	→ →	ACK	
	INFO (CPG 2)	→		
	200 OK INFO	(
	CASE B			
	INFO (CPG 2)	→ →	INVITE 2 (sendrecv)	
	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 6.3.2/13			
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 confirmed state not set on hold and a conference is			
	established. Ensure that on rec	eipt of an INFO with encapsul	ated CPG message the	
	Generic notification indicator is set to 'Conference disconnected' no relNVITE is sent			
ISUP Parameter values	CPG 1: Generic notification			
	Conference esta	blished		
	CPG 2: Generic notification			
	Conference disc	onnected		
SIP Parameter values				
Comments	This state is applicable for CONF and 3PTY			
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE →	→	INVITE (IAM)	
	100 Trying ←			
	180 Ringing ←	←	180 Ringing (ACM - free)	
	200 OK (INVITE)	+	200 OK (INIVITE) (ANIM)	
	200 OK (INVITE) ← ACK →		200 OK (INVITE) (ANM) ACK	
	ACK	7	ACK	
		←	INFO 1 (CPG 1)	
		→	200 OK (INFO)	
			INIEO 0 (ODO 0)	
		÷	INFO 2 (CPG 2)	
	→ 200 OK (INFO)			
		Apply post test routine		

TSS reference PSTN-SS/CONF/ Selection criteria PICS 6.3.1/1 AND PICS 6.3.2/13 Test Purpose name O-MGCF: Session not on hold, notification 'Conference disconnected' Test Purpose A session at the O-MGCF is in the confirmed state not set on hold and a conference is established. Ensure that on receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' no relNVITE is sent ISUP Parameter values CPG 1: Generic notification	TP number	TP 312 006	Reference	[1], clause 7.3.1		
Selection criteria PICS 6.3.1/1 AND PICS 6.3.2/13 Test Purpose name O-MGCF: Session not on hold, notification 'Conference disconnected' Test Purpose A session at the O-MGCF is in the confirmed state not set on hold and a conference is established. Ensure that on receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' no reINVITE is sent ISUP Parameter values CPG 1: Generic notification Conference established CPG 2: Generic notification Conference disconnected SIP Parameter values Comments Message flows This state is applicable for CONF and 3PTY Message flows SIP-I MGCF SIP NNI INVITE (IAM) → INVITE ← 100 Trying 180 Ringing (ACM- free) ← 200 OK (INVITE) 200 OK (INVITE) ← 200 OK (INVITE) (ANM) ACK NFO (CPG 1) → ACK				·		
Test Purpose name Test Purpose O-MGCF: Session not on hold, notification 'Conference disconnected' A session at the O-MGCF is in the confirmed state not set on hold and a conference is established. Ensure that on receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' no relNVITE is sent CPG 1: Generic notification Conference established CPG 2: Generic notification Conference disconnected SIP Parameter values This state is applicable for CONF and 3PTY Message flows SIP-I INVITE (IAM) SIP-I INVITE 180 Ringing (ACM- free) 200 OK (INVITE) (ANM) ACK ACK INFO (CPG 1) 200 OK (INFO) €	TSS reference	PSTN-SS/CONF/	•	•		
Test Purpose A session at the O-MGCF is in the confirmed state not set on hold and a conference is established. Ensure that on receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' no reINVITE is sent ISUP Parameter values CPG 1: Generic notification	Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2	/13			
established. Ensure that on receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' no reINVITE is sent CPG 1: Generic notification Conference established CPG 2: Generic notification Conference disconnected SIP Parameter values Comments This state is applicable for CONF and 3PTY Message flows SIP-I MGCF SIP NNI INVITE (IAM)		O-MGCF: Session not on hold, notification 'Conference disconnected'				
Generic notification indicator is set to 'Conference disconnected' no reINVITE is sent ISUP Parameter values CPG 1: Generic notification	Test Purpose					
ISUP Parameter values CPG 1: Generic notification						
Conference established CPG 2: Generic notification Conference disconnected SIP Parameter values Comments This state is applicable for CONF and 3PTY Message flows SIP-I MGCF SIP NNI INVITE (IAM) INVITE (IAM) INVITE (100 Trying 180 Ringing (ACM- free) 200 OK (INVITE) (ANM) ACK ACK INFO (CPG 1) 200 OK (INFO) **ONE TO THE **ONE				onnected' no reINVITE is sent		
CPG 2: Generic notification Conference disconnected SIP Parameter values Comments This state is applicable for CONF and 3PTY Message flows SIP-I INVITE (IAM) INVITE (IAM) INVITE (IAM) INVITE (IAM) INVITE	ISUP Parameter values					
Conference disconnected						
SIP Parameter values		0. 0 2. 000	•			
Comments This state is applicable for CONF and 3PTY Message flows SIP-I MGCF SIP NNI INVITE (IAM) → INVITE ← 100 Trying 180 Ringing (ACM- free) ← 180 Ringing ← 180 Ringing 200 OK (INVITE) (ANM) (ACK → → ACK → ACK INFO (CPG 1) (INFO) ← → ACK → ACK		Conference dis	connected			
SIP-I MGCF SIP NNI						
INVITE (IAM) → INVITE ← 100 Trying 180 Ringing (ACM- free) 200 OK (INVITE) ← 200 OK (INVITE) (ANM) ACK → ACK INFO (CPG 1) 200 OK (INFO) ←				OID MAIL		
180 Ringing ← 100 Trying ← 180 Ringing (ACM- free) 200 OK (INVITE) ← 200 OK (INVITE) (ANM) ACK → ACK INFO (CPG 1) → 200 OK (INFO) ←	Message flows	<u> </u>				
180 Ringing ←		INVITE (IAM)	=			
(ACM- free) 200 OK (INVITE) ← ← 200 OK (INVITE) (ANM) ACK → ACK INFO (CPG 1) → 200 OK (INFO) ←		100 D: 1		, 0		
200 OK (INVITE) ← ← 200 OK (INVITE) (ANM) ACK → → ACK INFO (CPG 1) → 200 OK (INFO) ←			←	180 Ringing		
(ANM) ACK → ACK INFO (CPG 1) 200 OK (INFO) ←		(ACM- free)				
(ANM) ACK → ACK INFO (CPG 1) 200 OK (INFO) ←		200 OK (INIVITE)	_	200 OK (INIVITE)		
ACK → ACK INFO (CPG 1) → 200 OK (INFO) ←			~	200 OK (INVITE)		
INFO (CPG 1) → 200 OK (INFO) ←		` '	ح	VCK		
200 OK (INFÓ) ←		ACK	7	ACK		
200 OK (INFÓ) ←		INFO (CPG 1)				
INFO (CPC 2)		200 01 (1141 0)				
		INFO (CPG 2) →				
200 OK						
Apply post test routine						

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.	2/13	
Test Purpose name	I-MGCF: Session on hold, no		sconnected'
Test Purpose	A session at the I-MGCF is in		
·	established. Ensure that on receipt of an INFO with encapsulated CPG message the Generic notification indicator is set to 'Conference disconnected' no action takes place on the SIP side.		
ISUP Parameter values	CPG 1: Generic notificatio Remote hold CPG 2: Generic notificatio Conference es CPG 3: Generic notificatio Conference dis	n tablished 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	MGCF	SIP-I
	INVITE 100 Trying 180 Ringing	→ ←	→ INVITE (IAM)← 180 Ringing (ACM – free)
	200 OK (INVITE) ACK	← →	← 200 OK (INVITE) (ANM) → ACK
	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK	← → ←	← INVITE 1 (sendonly) (CPG 1)→ 200 OK INVITE (recvonly)← ACK
	CASE A INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	← → ←	 ← INVITE 2 (sendrecv) → 200 OK INVITE (sendrecv) ← ACK ← INFO (CPG 3) → 200 OK INFO
	CASE B INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	← →	← INFO (CPG 2)→ 200 OK INFO← INFO (CPG 3)
		Apply post test rou	→ 200 OK INFO utine

TP number	TP_312_008	Reference	[1], clause 7.3.1 [2], clause 7.4.14
TSS reference	PSTN-SS/CONF/	1	[[-],
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2/	/13	
Test Purpose name	O-MGCF: Session on hold, notification 'Conference disconnected'		
Test Purpose	the SIP side.	ceipt of an INFO with encap	
ISUP Parameter values SIP Parameter values	CPG 1: Generic notification Remote hold CPG 2: Generic notification Conference esta CPG 3: Generic notification Conference disc INVITE 1: SDP	ablished	
	a=sendonly INVITE 2: SDP a=sendrecv		
Comments Message flows	This state is applicable for 3PT SIP-I	TY MGCF	SIP NNI
inessage nows	INVITE (IAM) 180 Ringing (ACM - free) 200 OK (INVITE) (ANM) ACK INVITE 1 (sendonly) (CPG 1) 200 OK INVITE (recvonly) ACK CASE A INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK INFO (CPG 2) 200 OK INFO INFO (CPG 3) 200 OK INFO	A conference is established ← ← → → → →	_
	CASE B INFO (CPG 2) 200 OK INFO INFO (CPG 3) 200 OK INFO	←	→ INVITE 2 (sendrecv) ← 200 OK INVITE (sendrecv) → ACK

TP number	TP_312_009	Reference	[1], clause 7.2.1	
T00 == f=======	DOTAL CO/CONE/		[2], clause 7.4.14	
TSS reference		PSTN-SS/CONF/		
Selection criteria	PICS 6.3.1/1 AND PICS 6.3.2		1	
Test Purpose name		I-MGCF: notification 'isolated' and 'reattached' interworked A conference at the I-MFCF is established. Ensure that on receipt of an INVITE with		
Test Purpose	encapsulated CPG message request is sent the 'a' attribut CPG message the Generic n sent the 'a' attribute in the SE	encapsulated CPG message the Generic notification indicator is set to 'isolated' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendonly'. Subsequently on receipt of a CPG message the Generic notification indicator is set to 'reattached' a reINVITE request is sent the 'a' attribute in the SDP is set to 'sendrecv'		
ISUP Parameter values	CPG 1: Generic notificatio			
	Conference es CPG 2: Generic notificatio isolated CPG 3: Generic notificatio reattached	n		
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	
	INVITE 100 Trying 180 Ringing	→ ← ←	→ INVITE (IAM) ← 180 Ringing (ACM)	
	1.00 1 tiligilig	_	1 100 1 111 191 19 (7 10111)	
	200 OK (INVITE) ACK	← →	← 200 OK (INVITE) (ANM) → ACK	
	← INFO (CPG 1)→ 200 OK (INFO)			
	INVITE 1 (sendonly) 200 OK INVITE (recvonly) ACK	← → ←	← INFO CPG 2→ 200 OK INFO	
	INVITE 2 (sendrecv) 200 OK INVITE (sendrecv) ACK	←→←	← INFO (CPG 3)→ 200 OK INFO	
	Apply post test routine			

TP number	TP_312_010	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: notification 'isolated' a					
Test Purpose	A conference at the O-MFCF is e					
	encapsulated CPG message the Generic notification indicator is set to 'isolated' a reINVITE					
		request is sent the 'a' attribute in the SDP is set to 'sendonly'. Subsequently on receipt of a				
	CPG message the Generic notific		ittached' a reINVITE request is			
10115 5	sent the 'a' attribute in the SDP is	s set to 'sendrecv'				
ISUP Parameter values	CPG 1: Generic notification	Sala a d				
	Conference establ	isnea				
	CPG 2: Generic notification isolated					
	CPG 2: Generic notification					
	reattached					
SIP Parameter values	INVITE 1: SDP					
on randingtor rando	a=sendonly					
	INVITE 2: SDP					
	a=sendrecv					
Comments	This state is applicable for CONF	=				
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			
		_				
	INFO (CPG 1)	→				
	200 OK (INFO)	←				
	INFO (CPG 2)	→ →	INVITE 1 (sendonly)			
	200 OK INFO		200 OK INVITE (recvonly)			
	ACK	•	ACK			
			7,010			
	INFO (CPG 3)	→	INVITE 2 (sendrecv)			
	200 OK INFO)	+ +	200 OK INVITE (sendrecv)			
	ACK	→ →	ACK			
		Apply post test routine				
	Appriy post test routille					

6.2.13 Void

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

TP number	TP_314_001	Reference	[1], clause 7.3.1
			[2], clause 7.4.17
TSS reference	PSTN-SS/MLPP/		
Selection criteria			
Test Purpose name	Precedence parameter receive	ed in IAM, discarded	
Test Purpose	Ensure that on receipt of an IN	IVITE with encapsulated IAM a	nd a Precedence parameter is
	present, this parameter is disc	arded without affect the ongoin	g call setup
ISUP Parameter values	IAM: Precedence		
SIP Parameter values			
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM) →	→	INVITE
		←	100 Trying
		Apply post test routine	

TP number	TP_314_002		Reference	[1], clause 7.3.1 [2], clause 7.4.17	
T00 (DOTAL CO /MI DD/			[[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	Ensure that on receipt of a CANCEL with encapsulated REL message in an early dialogue at the O-MGCF and the Cause value is set to '9', a CANCEL request is sent. A Reason header is contained in the CANCEL request and the cause value is set to '9'			
ISUP Parameter values	REL: Cause = 9				
SIP Parameter values	CANCEL: Reason:	: Q.850; cau	se=9		
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
_		A Ses	ssion is already in early	dialogue	
	CANCEL (REL)	→	→	CANCEL	
	200 OK CANCÉL (RLC)	-	←	200 OK CANCEL	
	487 Request Terminated	←	←	487 Request Terminated	
	ACK	→	→	ACK	

TP number	TP_314_003	Reference	[1], claus	
TCC vofevence	DOTAL CO (MIL DD /		[2], claus	se 7.4.17
TSS reference	PSTN-SS/MLPP/			
Selection criteria				
Test Purpose name	A REL cause #8 terminates	an early dialogue		
Test Purpose	Ensure that on receipt of a the I-MGCF and the Cause header is contained in the fi	value is set to '8', a 4xx or	5xx final respon	se is sent. A Reason
ISUP Parameter values	REL: Cause = 8			
SIP Parameter values	480: Reason: Q.850; caus	se=8		
Comments				
Message flows	SIP NNI	MGCI	=	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 terminate	tes a confirmed dialogue		
Test Purpose			med dialogue and the Cause value is	
	set to '9', a BYE request	is sent. A Reason header is	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; 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 L	AM discarded	
Test Purpose	Ensure that on receipt of an IN	IVITE with encapsulated IAM c	ontaining a request for GVNS
	service, the Forward GVNS pa	rameter is discarded without a	ffect the ongoing call setup
ISUP Parameter values	IAM: Called party number		
	Forward GVNS		
	Originating participa	ating service provider	
	GVNS user group		
	Terminating network	k 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 i	is discarded without affect the	ongoing call setup			
ISUP Parameter values		IAM: Called party number				
	Remote Opera	ition				
		gReqSetup invoke				
	transfer	transferRequested = true				
	callingL	callingUserNumber				
SIP Parameter values						
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	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		ne calling user during the active		
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/		[[2], clause 1.4.20			
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 A confirmed dialogue is alr	← INFO (FAC)→ 200 OK INFO			
		Apply post test r	Apply post test routine			

TP number	TP_316_004	Reference	[1], clause 7.3.1			
i iiambo	11 _010_001	r.o.o.o.o.o	[2], clause 7.4.20			
TSS reference	PSTN-SS/REV/	<u> </u>	[[-], ************************************			
Selection criteria						
Test Purpose name	REV request in IAM expl	licit rejected				
Test Purpose			ated IAM message and a Remote			
_	Operation parameter is present containing REVCallingReqSetup invoke component and the explicit rejection of this service is supported, the SUT sends in a:					
		200 OK INVITE with encapsulated ANM a Remote Operation parameter containing a REVCallingReqSetup return error component set to rejectedByNetwork OR				
			ition parameter containing a			
			set to rejectedByNetwork and the Cause			
ISUP Parameter values	IAM: Called party num	ber				
	Remote Operatio					
		eqSetup invoke				
		equested = true				
	callingUse					
	ANM: Remote Operatio					
		eqSetup return error				
	rejectedBy REL: Cause 29	INELWOIK				
	Remote Operatio	n				
		REVCallingReqSetup return error				
	rejectedByNetwork					
SIP Parameter values	,					
Comments						
Message flows	SIP-I	MGCF	SIP NNI			
	INVITE (IAM)	→				
	CASE A					
			→ INVITE			
	180 Ringing	←	← 180 Ringing			
	(ACM – free)		A OOO OK INIVITE			
	200 OK INVITE (ANM)	← →	← 200 OK INVITE → ACK			
	7,011					
	Apply post test routine					
	CASE B					
	4xx/5xx/6xx (REL)	←				
	ACK (RLC)	→				

TP number	TP_316_005	Reference	[1], clause 7.3.1		
			[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 O-MG0	CF		
Test Purpose	Ensure that on receipt of an IN				
	active state of the call and a Re				
	REVCallingReqSetup invoke co				
	supported, the SUT sends in a				
	parameter containing a REVCa	allingReqActive return error co	mponent set to		
	rejectedByNetwork				
ISUP Parameter values	FAC: Remote Operation				
	REVCallingReqActiv				
	transferRequeste				
	callingUserNumb	per			
	FRJ: Remote Operation				
	REVCallingReqActive return error				
CID Devementes values	rejectedByNetwork				
SIP Parameter values					
Comments	CID I	MGCF	CID NAII		
Message flows	SIP-I		SIP NNI		
	A confirmed dialogue is already established				
	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 acti	ve state explicit rejected at t	he I-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 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 Operating REVCalledR transferR calledUsing FRJ: Remote Operating REVCalledR	Request invoke Requested = true erNumber			
SIP Parameter values	1				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	Δ	A confirmed dialogue is alr	eady established		
		3	← 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 he	ader not present, P-Asse	rted-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 contain an URI that encodes an E.164 [i.1] Address, an INVITE with			
	encapsulated IAM is sent.				
		arameter is present and t	he address digits are provided by the		
	SUT				
ISUP Parameter values	IAM: Calling party Num				
	Number incomp	olete indicator=Complete			
	3		ny (Recommendation E.164)		
	Nature of Addre	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		If CC encoded in the URI is equal to the CC of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then				
	national (significant) number				
	else				
	international number				
	Screening indicator=Network Provided				
	Presentation restriction=restricted or allowed				
		provided by the Networ			
		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		ntity: not present			
	From: sip:unava	ailable@unknown.invalid			
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 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 encodes	an E.164 [i.1] Address, an INVITE with		
	encapsulated IAM is sent.				
	A Calling party number pa	rameter is present and the	e address digits are provided by the		
	SUT. The Presentation res	striction indicator is set to	'presentation restricted by network'		
ISUP Parameter values	IAM: Calling party Num	ber			
	Number incomp	lete indicator=Complete			
	Numbering Plar	n Indicator=ISDN/Telepho	ny (Recommendation E.164 [i.1])		
	Nature of Addre	ess 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				
		striction=presentation rest			
		provided by the Networl			
			er" then set to "NDC" + "SN"		
			set to "CC"+" NDC"+"SN"		
SIP Parameter values		ntity: not present			
	From: sip:unava	ailable@unknown.invalid			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE → INVITE (IAM)				
	100 Trying	←			
		Apply post test ro	outine		

TP number	TP 401 003	Reference	[1], clause 7.2.1	
i i iidiiibei	11 _401_003	Reference	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	S 6.3.2/1	
Test Purpose name	INVITE received. From	n header not present, P-Assert	ed-Identity not present. Address digits	
	omitted			
Test Purpose	Ensure that on receipt	of an INVITE request the P-As	sserted-Identity is not present and the	
-	From header does not	From header does not contain an URI that encodes an 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.	. разовительно	р	
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	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/		1.2.3.1.2.0		
Selection criteria	PICS 6.3.3/1 AND PICS 6.3.3/2	2 AND PICS 6 3 3/3 AND PIC	S 6 3 2/1		
Test Purpose name	INVITE received. From header				
lest i dipose name	'Address not available'	not present, i -Asserteu-luen	illy not present At IXI is set to		
Toot Burnoss	Ensure that on receipt of an IN	VITE request the D Asserted	Identity is not present and the		
Test Purpose					
	From header does not contain	an URI that encodes an E. 164	+ [I. I] Address, an invite with		
	encapsulated IAM is sent.	star is present and the address	a digita amittad. The		
	A Calling party number parame				
ISUP Parameter values	Presentation restriction indicator is set to 'Address not available'				
150P Parameter values	IAM: Calling party Number				
	Number incomplete indicator=Complete				
	Numbering Plan Indicator='000'				
	Nature of Address Indicator='0000000'				
	Screening indicator=Network Provided				
	Presentation restriction=Address not available				
	Address signal Address digits not present				
SIP Parameter values	INVITE: P-Asserted-Identity:				
	From: sip:unavailable@unknown.invalid				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE → INVITE (IAM)				
	100 Trying ←				
	Apply post test routine				

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 not present. Network provided			
	number is sent			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header contains an URI that encodes an E.164 [i.1] Address, an INVITE with encapsulated IAM is sent. A Calling party number parameter is present and the address digits are provided by the SUT. An Additional calling Party number is sent in a Generic number parameter and the			
ISUP Parameter values			om neader	
	IAM: Calling party Number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation E. 164 [i.1]) Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then national (significant) number else international number Screening indicator=Network Provided Presentation restriction=restricted or allowed 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 international number Number incomplete indicator=Complete Numbering Plan Indicator=ISDN/Telephony (Recommendation E. 164) Presentation restriction=restricted or allowed Screening indicator=user provided not verified Address digits derived from the 'From' header if NOA is "national (significant) number" then set to "NDC" + "SN"			
SIP Parameter values	INVITE: P-Asserted-Identi			
		ÚRI that encodes an E.164	[i.1] address	
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	← 100 Trying ′	
	, 3	Apply post test routi		

TP number	TP_401_006	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/	1		
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. Network provided	
	number is sent			
Test Purpose	Ensure that on receipt of an IN	VITE request the P-Asserted-I	dentity is not present and the	
-	From header contains an URI			
	encapsulated IAM is sent.		·	
		A Calling party number parameter is present and the address digits are provided by the		
	SUT. The Presentation restriction indicator is set to 'presentation restricted by network'. An			
	Additional calling Party numbe			
	signals are derived from the Us	•	d the Presentation restriction	
	indicator is set to 'presentation	allowed'		
ISUP Parameter values	IAM: Calling party Number			
		indicator=Complete		
		licator=ISDN/Telephony (Reco	mmendation E.164)	
	Nature of Address In			
		the URI is equal to the CC of		
		next BICC/ISUP node is locat	ted in the same country then	
		nificant) number		
	else international	number		
	Screening indicator=Network Provided Presentation restriction=presentation restricted by network			
	Address signal provided by the Network			
	if NOA is "national (significant) number" then set to "NDC" + "SN"			
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
	Additional calling party number			
	Nature of Address Indicator			
	If CC encoded in the URI is equal to the CC of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then			
	national (significant) number			
	else	·		
	international nur	mber		
		indicator=Complete		
		licator=ISDN/Telephony (<i>Reco</i>	mmendation E.164)	
	Presentation restrict			
		user provided not verified		
		ved from the 'From' header		
		nal (significant) number" then s		
CID Devementer value :		ational number" set to "CC"+' I	NDC.+.2N.	
SIP Parameter values	INVITE: P-Asserted-Identity:	not present RI that encodes an E.164 <i>[i.1]</i> :	addraga	
Comments	FIOITI. COTILAITIS A OF	Ri that encodes an E.164 [i.1] a	address	
Message flows	SIP NNI	MGCF	SIP-I	
Hossage Hows	INVITE -		INVITE (IAM)	
	100 Trying		IIIVII L (IAWI)	
	Too riying	Apply post test routine		
		Apply post test routille		

TP number	TP_401_007	Reference	[1], clause 7.2.1	
	11 _ 10 1_001		[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 AND PICS 6.3.3/2 AND PICS 6.3.3/3 AND PICS 6.3.2/1			
Test Purpose name	INVITE received. From hea	ader present, P-Asserted	Identity not present. Address digits	
	omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is not present and the From header does not contain an URI that encodes an E.164 [i.1] Address, an INVITE with			
	encapsulated IAM is sent.			
			e address digits omitted. An Additional	
			arameter and the Address signals are	
IOUD Developed	derived from the Userpart			
ISUP Parameter values	IAM: Calling party Num			
		lete indicator=Complete		
	Numbering Plan	n indicator= 000 ess Indicator='0000000'		
		ator=Network Provided		
		ator=Network Provided striction= Address not ava	nilabla	
		Address digits not prese		
			iii.	
	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			
			io io located in the came country then	
	national (significant) number else			
	international number			
	Number incomplete indicator=Complete			
	Numbering Plan	n Indicator=ISDN/Telepho	ny (<i>Recommendation E.164</i>)	
		striction=restricted or allo		
	Screening indicate	ator=user provided not ve	rified	
	Address digits of	lerived from the 'From'	header	
			er" then set to "NDC" + "SN"	
	If NOA is "international number" set to "CC"+' NDC'+'SN'			
SIP Parameter values		ntity: not present		
	From: contains	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 re	outine	

TP number	TD 404 000	Reference	[4] alauga 7.2.4	
i F ilulibei	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 AND NOT F	PICS 6.3.3/2 AND PICS 6.3.3/5	AND PICS 6.3.2/1	
Test Purpose name	INVITE received. From header	r present, P-Asserted-Identity n	ot present. Address digits	
	omitted		-	
Test Purpose		IVITE request the P-Asserted-le		
	From header does not contain	an URI that encodes an E.164	[i.1] Address, an INVITE with	
	encapsulated IAM is sent.			
	A Calling party number parameter	eter is present and the address	digits omitted. In addition, the	
	Additional calling party number is omitted.			
ISUP Parameter values	IAM: Calling party Number not present			
	Additional calling par	Additional calling party number not present		
SIP Parameter values	INVITE: P-Asserted-Identity: not present			
	From: contains a URI that encodes an E.164 [i.1] address			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE -	· -	INVITE (IAM)	
	100 Trying ←	•		
	Apply post test routine			
ļ	ļ	1171		

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	INVITE received. From header not present, P-Asserted-Identity present Privacy not present			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
			an E.164 [i.1] Address a Privacy	
		INVITE with encapsulated		
			e address digits are derived from the	
	P-Asserted-Identity head			
ISUP Parameter values	IAM: Calling party Nur			
		nplete indicator=Complete		
			ny (Recommendation E.164)	
	Nature of Add	ress Indicator		
			he CC of the country where MGCF is	
	located AND the next BICC/ISUP node is located in the same country then			
	national (significant) number			
	else			
	international number Screening indicator=Network Provided			
		Presentation restriction=allowed Address signal derived from the P-Asserted-Identity		
			er" then set to "NDC" + "SN"	
		international number" then	set to "CC"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Ide			
	From: sip:unavailable@unknown.invalid			
	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_010	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 'none'			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
-	From header does not contain	an URI that encodes an E.164	1 [i.1] Address and a Privacy	
	header is present set to 'none	, an INVITE with encapsulated	IAM is sent.	
	A Calling party number param	eter is present and the address	s digits are derived from the	
	P-Asserted-Identity header. The	ne Presentation restriction is se	et to 'presentation 'allowed'	
ISUP Parameter values	IAM: Calling party Number			
	Number incomplete	indicator=Complete		
	Numbering Plan Inc	dicator=ISDN/Telephony (Reco	nmendation E.164 [i.1])	
	Nature of Address			
	If CC encoded i	n the URI is equal to the CC of	the country where MGCF is	
	located AND the	e next BICC/ISUP node is loca	ted in the same country then	
	national (sig	nificant) number		
	else			
	international			
	Screening indicator	=Network Provided		
	Presentation restric	tion=allowed		
	Address signal der	ived from the P-Asserted-Ide	ntity	
	if NOA is "nation	<i>nal (significant) number"</i> then s	et to "NDC" + "SN"	
		national number" then set to "C	C"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Identity	: present		
	From: sip:unavailat	ole@unknown.invalid		
	Privacy: none			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE		INVITE (IAM)	
	100 Trying	.		
		Apply post test routine		

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 not present, P-Asserted-Identity present, Privacy value 'id'			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
			an E.164 [i.1] Address and a Privacy	
		'id', an INVITE with encapsu		
			address digits are derived from the	
			tion is set to 'presentation 'restricted'	
ISUP Parameter values	IAM: Calling party Nu			
		nplete indicator=Complete		
			ny (Recommendation E.164 [i.1])	
	Nature of Add			
			ne CC of the country where MGCF is	
	located AND the next BICC/ISUP node is located in the same country then national (significant) number else international number Screening indicator=Network Provided			
		Presentation restriction=restricted		
		derived from the P-Asse		
		'national (significant) numbe		
		"international number" then	set to "CC"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Id			
	From: sip:unavailable@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/		7.2.0.1.2.0	
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	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
			s an E.164 [i.1] Address and a Privacy	
	header is present set to 'u			
			he address digits are derived from the	
			riction is set to 'presentation 'restricted'	
ISUP Parameter values	IAM: Calling party Nun	nber		
		plete indicator= <i>Complete</i>		
	Numbering Pla	n Indicator=ISDN/Teleph	ony (Recommendation E.164 [i.1])	
	Nature of Address Indicator			
			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			
		ional number		
		cator=Network Provided		
		estriction=restricted		
		derived from the P-Ass		
			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: sip:unavailable@unknown.invalid			
	Privacy: user			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE)	→ INVITE (IAM)	
	100 Trying	←		
	Apply post test routine			

TP number	TP_401_013	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 'header'			
Test Purpose	Ensure that on receipt of a	n INVITE request the P-A	Asserted-Identity is present and the	
-			an E.164 [i.1] Address and a Privacy	
	header is present set to 'he	eader', an INVITE with er	capsulated IAM is sent.	
	A Calling party number par	rameter is present and th	e address digits are derived from the	
	P-Asserted-Identity header	r. The Presentation restri	ction is set to 'presentation 'restricted'	
ISUP Parameter values	IAM: Calling party Num	ber		
		lete indicator=Complete		
	Numbering Plan	Indicator=ISDN/Telepho	ony (Recommendation E.164 [i.1])	
	Nature of Addre			
			the CC of the country where MGCF is	
			de is located in the same country then	
		(significant) number		
	else			
		onal number		
		ator=Network Provided		
		striction=restricted		
		derived from the P-Ass		
			er" then set to "NDC" + "SN"	
OID D	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
SIP Parameter values	INVITE: P-Asserted-Ider			
	From: sip:unavailable@unknown.invalid			
0	Privacy: header			
Comments	SIP NNI	МОСТ	SIP-I	
Message flows	*** ****	MGCF		
	INVITE)	→ INVITE (IAM)	
	100 Trying	← Apply past tast r	outing	
	Apply post test routine			

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		r present, P-Asserted-Identity p	present. Privacy header not	
-	present, additional calling party number not omitted			
Test Purpose	Ensure that on receipt of an IN	IVITE request the P-Asserted-I	dentity is present and the	
		that encodes an E.164 [i.1] Ad	dress a Privacy header is not	
	present, an INVITE with encar			
		eter is present and the address		
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation			
		Party number is sent in a Gene		
		ed from the Userpart of the Fron	n header the Presentation	
	restriction indicator is set to 'p			
ISUP Parameter values	IAM: Calling party Number			
		indicator=Complete		
		dicator=ISDN/Telephony (Reco	mmendation E.164 [i.1])	
	Nature of Address I			
		n the URI is equal to the CC of		
		e next BICC/ISUP node is locat	ed in the same country then	
		nificant) number		
	else international	number		
	Presentation restric	=Network Provided		
			ntity	
	Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN"			
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
	Additional calling party number Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then			
	national (signific			
	else	,		
	international nu	mber		
	Number incomplete	indicator=Complete		
		dicator=ISDN/Telephony (<i>Reco</i>	mmendation E.164)	
	Presentation restric	tion=allowed	·	
		user provided not verified		
		ved from the 'From' header		
		<i>nal (significant) number"</i> then s		
		national number" set to "CC"+' l	NDC'+'SN'	
SIP Parameter values	INVITE: P-Asserted-Identity			
		RI that encodes an E.164 [i.1] a	address	
	Privacy not present			
Comments	OID ::::	M05-	015 :	
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	
	11 = 13 1= 13		[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 'none',			
-	additional calling party number not omitted			
Test Purpose			Asserted-Identity is present and the	
			64 [i.1] Address, an INVITE with	
	encapsulated IAM is sent			
			e address digits are derived from the	
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation			
			in a Generic number parameter and	
			of the From header the Presentation	
	restriction indicator is set			
ISUP Parameter values	IAM: Calling party Num			
		olete indicator=Complete	(Danaman da (ian F 404 ii 41)	
			ony (Recommendation E.164 [i.1])	
	Nature of Addre		he CC of the country where MGCF is	
			de is located in the same country then	
		(significant) number	de is located in the same country then	
	else	(Significant) number		
		onal number		
		cator=Network Provided		
		estriction=allowed		
	Address signal	derived from the P-Asse	erted-Identity	
	if NOA is "n	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 Addre			
	If CC encoded in the URI is equal to the CC of the country where MGCF is			
			de is located in the same country then	
		gnificant) number		
	else			
	internationa			
		olete indicator=Complete	(Danaman da Gara F 404 5 4)	
			ny (Recommendation E.164 [i.1])	
		estriction=allowed	ر مانان م	
		cator=user provided not ve derived from the 'From'		
			er" then set to "NDC" + "SN"	
		nternational number" set t		
SIP Parameter values	INVITE: P-Asserted-Ide		O O I NOOTON	
C I didiliotoi valuos		a URI that encodes an E.	164 address	
	Privacy: none			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	(– ()	
		Apply post test r	outine	

TP number	TP_401_016	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 heade	er present, P-Asserted-Identity p	oresent. Privacy header 'id',	
	additional calling party number			
Test Purpose		NVITE request the P-Asserted-		
		that encodes an E.164 [i.1] Ad		
	•	Privacy header is present set		
		neter is present and the address		
		P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation restricted'. An Additional calling Party number is sent in a Generic number parameter and		
		ed from the Userpart of the Fron	m neader the Presentation	
ICUD Devementar values	restriction indicator is set to 'p			
ISUP Parameter values	IAM: Calling party Number			
		e indicator= <i>Complete</i> dicator= <i>ISDN/Telephony (Rec</i> o	emmandation E 164 (i 11)	
	Nature of Address		iriirieridatiori E. 164 [i. 1])	
		in the URI is equal to the CC of	the country where MGCF is	
		e next BICC/ISUP node is loca		
		nificant) number	ted in the same country then	
	else	rimeant, names		
	internationa	l number		
	Screening indicato	r=Network Provided		
	Presentation restric			
	Address signal derived from the P-Asserted-Identity			
	if NOA is "national (significant) number" then set to "NDC" + "SN"			
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
	Additional calling party number			
	Nature of Address Indicator			
	If CC encoded in the URI is equal to the CC of the country where MGCF is			
	located AND the next BICC/ISUP node is located in the same country then			
	national (signifi	cant) number		
	else			
	international nu			
	Number incomplete	e indicator=Complete dicator=ISDN/Telephony (<i>Rec</i> o	emmandation E 164	
	Presentation restrict		irimendation E. 104)	
		r=user provided not verified		
		ved from the 'From' header		
		nal (significant) number" then s	et to "NDC" + "SN"	
		national number" set to "CC"+'		
SIP Parameter values	INVITE: P-Asserted-Identity			
		RI that encodes an E.164 [i.1]	address	
	Privacy: id			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
_	INVITE	→	INVITE (IAM)	
	100 Trying	-	•	
		Apply post test routine		
	1	11 7 1		

TP number	TP_401_017	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 'user',		
-	additional calling party number not omitted		
Test Purpose			sserted-Identity is present and the
			4 [i.1] Address, an INVITE with
			sent set to 'user', A Calling party
			are derived from the P-Asserted-
	Identity header the Presentation restriction indicator is set to 'presentation restricted'. An		
			number parameter and the Address
			eader the Presentation restriction
	indicator is set to 'presenta		
ISUP Parameter values	IAM: Calling party Num		
		lete indicator=Complete	out (Decomposedation F 404 fi 41)
	Numbering Plan Nature of Addre		ny (Recommendation E.164 [i.1])
			o CC of the country where MCCE is
			ne CC of the country where MGCF is e is located in the same country then
		(significant) number	e is located in the same country then
	else	asgrinicant) number	
		nal number	
		ator=Network Provided	
		striction=restricted	
			rted-Identity
	Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is "international number" then set to "CC"+" NDC"+"SN"		
	Additional calling	party number	
	Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is		
			e is located in the same country then
	national (sig	nificant) number	
	else		
	international		
		lete indicator=Complete	/D
			ny (Recommendation E.164)
		triction=restricted	
		ator=user provided not ver	
		erived from the 'From' h	r" then set to "NDC" + "SN"
		ternational number" set to	
SIP Parameter values	INVITE: P-Asserted-Iden		OO T NDO TON
on raidiffeter values		a URI that encodes an E.1	64 li 11 address
	Privacy: user	d Orti tilat choodes all E. i	104 [I. 1] add1033
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	É	(
	. 55,9	Apply post test ro	outine
	Apply post test routine		

TP number	TP_401_018	Reference	[1], clause 7.2.1
			[2], clauses 7.5.1,
			7.2.3.1.2.6
TSS reference	IMS-SS/OIP-OIR/	<u>'</u>	
Selection criteria	NOT PICS 6.3.3/6 AND PICS 6.3.2/1		
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header		
-	'header', additional calling party number not omitted		
Test Purpose			sserted-Identity is present and the
	From header contains an L	IRI that encodes an E.164	4 [i.1] Address, an INVITE with
	encapsulated IAM is sent F		
			address digits are derived from the
	P-Asserted-Identity header the Presentation restriction indicator is set to 'presentation		
			t in a Generic number parameter and
			the From header the Presentation
	restriction indicator is set to		
ISUP Parameter values	IAM: Calling party Numl		
		ete indicator=Complete	(5)
			ny (Recommendation E.164 [i.1])
	Nature of Addres		on CC of the accust where MCCE is
			ne CC of the country where MGCF is e is located in the same country then
		significant) number	e is located in the same country then
	else	significant) number	
		nal number	
		tor=Network Provided	
		triction=restricted	
			rted-Identity
	Address signal derived from the P-Asserted-Identity if NOA is "national (significant) number" then set to "NDC" + "SN" If NOA is "international number" then set to "CC"+" NDC"+"SN"		
	Additional calling	party number	
	Nature of Address Indicator If CC encoded in the URI is equal to the CC of the country where MGCF is		
			e is located in the same country then
	national (sigi	nificant) number	
	else		
	international		
		ete indicator=Complete	(D
			ny (Recommendation E.164)
		triction=restricted	.:£:
		tor=user provided not ver erived from the 'From' h	
			r" then set to "NDC" + "SN"
		ternational number" set to	
SIP Parameter values	INVITE: P-Asserted-Iden		CO : NDO : ON
on raidinator values		a URI that encodes an E.1	64 [i,1] address
	Privacy: header		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	·····
	1.5.5.1.9	Apply post test ro	utine
	Apply post test 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/	<u> </u>		
Selection criteria	PICS 6.3.3/6 AND PICS	PICS 6.3.3/6 AND PICS 6.3.2/1		
Test Purpose name	INVITE received. From h	INVITE received. From header present, P-Asserted-Identity present. Privacy header not		
	present, additional calling party number omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
			164 [i.1] Address a Privacy header is not	
		encapsulated IAM is sent		
			the address digits are derived from the	
			ction indicator is set to 'presentation	
		alling Party number para	meter is not present	
ISUP Parameter values	IAM: Calling party Nu			
		nplete indicator=Complet		
			hony (Recommendation E.164 [i.1])	
		lress 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) num	ber" then set to "NDC" + "SN"	
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
SIP Parameter values		entity: present		
	From: contains a URI 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_020	Reference	[1], clause 7.2.1 [2], clauses 7.5.1,	
			7.2.3.1.2.6	
TSS reference	IMS-SS/OIP-OIR/	1		
Selection criteria	PICS 6.3.3/6 AND PICS	PICS 6.3.3/6 AND PICS 6.3.2/1		
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'none',			
	additional calling party number omitted			
Test Purpose		Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the		
			164 [i.1] Address a Privacy header is set	
		n encapsulated IAM is ser		
			the address digits are derived from the	
			ction indicator is set to 'presentation	
		calling Party number para	neter is not present	
ISUP Parameter values	IAM: Calling party Nu			
		mplete indicator=Complet		
			hony (Recommendation E.164 [i.1])	
		dress Indicator		
			the CC of the country where MGCF is	
		ND the next BICC/ISUP n al (significant) number	ode is located in the same country then	
	else			
	international number Screening indicator=Network Provided			
	Presentation restriction=allowed			
	Address signa	al derived from the P-As	serted-Identity	
	if NOA is	"national (significant) num	ber" then set to "NDC" + "SN"	
	If NOA is "international number" then set to "CC"+" NDC"+"SN"			
SIP Parameter values		lentity: present		
	From: contain	s a URI that encodes an	E.164 <i>[i.1]</i> 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 [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	INVITE received. From	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'id',		
	additional calling party number omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
			64 [i.1] Address a Privacy header is set	
		ncapsulated IAM is sent.		
			he address digits are derived from the	
			ction indicator is set to 'presentation	
		ll calling Party number para	ameter is not present	
ISUP Parameter values	IAM: Calling party Nu			
		mplete indicator=Complete		
			nony (Recommendation E.164[i.1])	
	Nature of Ad	dress Indicator		
	If CC enc	oded in the URI is equal to	the CC of the country where MGCF is	
			ode is located in the same country then	
	national (significant) number			
	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-Id	dentity: present		
	From: contains a URI that encodes an 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/	<u>'</u>		
Selection criteria	PICS 6.3.3/6 AND PICS	6.3.2/1		
Test Purpose name	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'user',			
	additional calling party number omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
			64 [i.1] Address a Privacy header is set	
		encapsulated IAM is sent		
			he address digits are derived from the	
			ction indicator is set to 'presentation	
		calling Party number para	ameter is not present	
ISUP Parameter values	IAM: Calling party Nu			
		nplete indicator=Complete		
			nony (Recommendation E.164 [i.1])	
	Nature of Add			
			the CC of the country where MGCF is	
		ND the next BICC/ISUP no al (significant) number	ode is located in the same country then	
	else			
	international number			
	Screening ind	icator=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-Id	entity: present		
		s a ÚRÍ that encodes an I	E.164 [i.1] address	
	Privacy: user			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
	100 Trying	←	,	
	, 5	Apply post test	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/		7.2.3.1.2.0	
Selection criteria	PICS 6.3.3/6 AND PICS	6 3 2/1		
Test Purpose name			d Identity present Priyacy header	
l rest rui pose mame	INVITE received. From header present, P-Asserted-Identity present. Privacy header 'header', additional calling party number omitted			
Test Purpose	Ensure that on receipt of an INVITE request the P-Asserted-Identity is present and the			
rest Fulpose		From header contains an URI that encodes an E.164 [i.1] Address a Privacy header is set		
	to 'header', an INVITE wi			
			he address digits are derived from the	
			ction indicator is set to 'presentation	
		calling Party number para		
ISUP Parameter values	IAM: Calling party Nur		ameter is not present	
loor raiameter values		nplete indicator= <i>Complete</i>		
			nony (Recommendation E.164 [i.1])	
	Nature of Add		iony (Recommendation E. 104 [1.1])	
			the CC of the country where MCCE is	
	located AN	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			
		estriction=restricted		
		derived from the P-As:	serted-Identity	
	if NOA is "	national (significant) num	ber" then set to "NDC" + "SN"	
			n set to "CC"+" NDC"+"SN"	
SIP Parameter values	INVITE: P-Asserted-Ide		1100110 00 1 1100 1 011	
on rarameter values			- 164 <i>[i 1]</i> address	
	From: contains a URI that encodes an E.164 [i.1] address Privacy: header			
Comments	1 mady. Houde	51		
Message flows	SIP NNI	MGCF	SIP-I	
"5" -	INVITE	→	→ INVITE (IAM)	
	100 Trying	-	,	
		Apply post test	routine	
	ı	: 44.7 6.33.1001		

TP number	TP_401_024	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 unavailable From hea	not received, Additional callinader is sent	g party number not received,
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM and no Calling party number and no Additional calling party number is present, an INVITE is sent. A P-Asserted-Identity is not present and the URI of the From header is set to 'sip:unavailable@unknown.invalid'		
ISUP Parameter values	IAM: Calling party n Generic numb	umber not present er (Additional calling party nu	mber) not present
SIP Parameter values	INVITE: From: sip:u	unavailable@unknown.invalid d-Identity not present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
			← 100 Trying
		Apply post test i	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	Calling party number not recallowed, From header contain	eived, Additional calling party nu ning a E.164 <i>[i.1]</i> URI is sent	ımber received presentation
Test Purpose	present and an Additional ca	NVITE with encapsulated IAM a lling party number is present, ar e URI of the From header is der rovided	NVITE is sent. A P-Asserted-
ISUP Parameter values	IAM: Calling party number Generic number (Add	not present itional calling party number) pre	sent presentation allowed
SIP Parameter values	INVITE: From: derived from P-Asserted-Identit	n the additional calling party nur y not present	mber or network provided
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE (IAM) →	→	INVITE
		←	100 Trying
		Apply post test routine	

TP number	TP 401 026	Reference	[1], clause 7.3.1
	1		[2], clauses 7.5.1,
			7.2.3.2.2.3
TSS reference	IMS-SS/OIP-OIR/		<u> </u>
Selection criteria	PICS 6.3.2/1		
Test Purpose name	Calling party number	not received, Additional calling	party number received presentation
	restricted, unavailable	e From header is sent	
Test Purpose			ted IAM and no Calling party number
			e Presentation restriction indicator is
	set to 'presentation re	estricted', an INVITE is sent. A	P-Asserted-Identity is not present and
	the URI of the From h	neader is set to 'sip:unavailable	@unknown.invalid'
ISUP Parameter values	IAM: Calling party n	umber not present	
	Generic numb	er (Additional calling party nun	nber) present presentation restricted
SIP Parameter values	INVITE: From: sip:u	unavailable@unknown.invalid	
	P-Asserted	d-Identity not present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
			← 100 Trying
		Apply post test re	outine

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/			
Selection criteria	PICS 6.3.2/1			
Test Purpose name	Calling party number received received, P-Asserted-Identity h		· · ·	
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/		1.2.0.2.2.0	
Selection criteria	PICS 6.3.2/1			
Test Purpose name			l, Additional calling party number 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 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 r	SIP NNI → INVITE ← 100 Trying outine	

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 received presentation restricted			
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		esent presentation allowed onal calling party number) pres	sent 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		
		1101010100	[2], clauses 7.5.1,		
			7.2.3.2.2.3		
<i>(</i>	1110 00/015 015/		1.2.3.2.2.3		
TSS reference	IMS-SS/OIP-OIR/				
Selection criteria	PICS 6.3.2/1				
Test Purpose name	Calling party number i	received presentation restricte	d, Additional calling party number not		
	received, P-Asserted-	Identity header and From hea	der are sent		
Test Purpose			ted IAM and a Calling party number		
			on restricted' and an Additional calling		
			-Asserted-Identity is present the URI is		
			number and the URI of the From		
		nonymous@anonymous.invaii	d'. A Privacy header is present the		
	value is equal to 'id'				
ISUP Parameter values		IAM: Calling party number present presentation restricted			
	Generic number	Generic number (Additional calling party number) not present			
SIP Parameter values					
	P-Asserted	P-Asserted-Identity derived from the calling party number			
	Privacy: 'id'				
Comments	i iivaey. ia				
Message flows	SIP-I	MGCF	SIP NNI		
wessage nows			_		
	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/	1			
Selection criteria	PICS 6.3.2/1				
Test Purpose name	. .	•	ed, Additional calling party number header and From header are sent		
Test Purpose	Presentation restriction party number is preser allowed, an INVITE is A P-Asserted-Identity in party number and the least of the least	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	9.				
SIP Parameter values	INVITE: From derive	ed from the additional calling Identity derived from the call	party number		
Comments					
Message flows	SIP-I INVITE (IAM)	MGCF → Apply post test i	SIP NNI → INVITE ← 100 Trying 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/	·			
Selection criteria	PICS 6.3.2/1				
Test Purpose name	Calling party number re	eceived presentation restricte	d, Additional calling party number		
	received presentation r	restricted, P-Asserted-Identity	header and From header are sent		
Test Purpose	Ensure that on receipt	of an INVITE with encapsulat	ted IAM and a Calling party number		
			on restricted' and an Additional calling		
			indicator is set to 'presentation		
	restricted', an INVITE is	s sent.			
			rom the address signals of the calling		
	party number and the l	JRI of the From header is set	to the value		
	'sip:anonymous@anon	ymous.invalid'. A Privacy hea	ader is present the value is equal to 'id'		
ISUP Parameter values		IAM: Calling party number present presentation restricted			
	Generic number	r (Additional calling party nun	nber) present presentation restricted		
SIP Parameter values		nonymous@anonymous.inval			
	P-Asserted-	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 re	outine		

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 PIC	S 6.3.2/2		
Test Purpose name	INVITE is sent the sup	ported header contains the o	ption tag 'from-change'	
Test Purpose			ted IAM and the Connected Line	
			Call Indicators parameter is set to	
	'requested', an INVITE	is sent and the Supported he	eader contains the option tag 'from-	
	change'			
ISUP Parameter values	IAM: Optional Forwar	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 6.3.2/2			
Test Purpose name	'from-change' tag not in	cluded in a received provisi	onal response		
Test Purpose	Ensure that on receipt of	of a provisional response an	d the 'from-change' tag is not included		
	the 200 OK INVITE with	n encapsulated ANM is sent	as soon as the 200 OK (INVITE) is		
	received				
ISUP Parameter values	IAM: Optional Forwar	d Call Indicators			
	Connected L	ine Identity Request = requ	ested		
SIP Parameter values	INVITE: Supported: f	rom-change			
	180: from-change tag	180: from-change tag not included in the Supported header			
	INVITE (IAM) / 180 : fro	om-change tag not present			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
	200 OK (INVITE)	←	← 200 OK (INVITE)		
	(ANM)		,		
	ÀCK	→	→ ACK		
		Apply post test i			

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	.3.2/2				
Test Purpose name	'from-change' tag not inclu	ided in a received final res	sponse			
Test Purpose	Ensure that on receipt of a	a final successful response	e and the 'from-change' tag is not			
	included the 200 OK INVI	TE with encapsulated ANN	∕l is sent			
ISUP Parameter values	IAM: Optional Forward 0	Call Indicators				
	Connected Line	e Identity Request = reque	sted			
SIP Parameter values	INVITE: Supported: from	n-change				
	200: from-change tag no	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		
	1 - 1 - 1 - 1		[2], clause 7.5.2		
TSS reference	IMS-SS/TIP-TIR/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/				
Test Purpose name	'from-change' tag included in a				
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				
	'additional connected number' follows: Nature of Address Indicato If CC is equal to the co	is present. The additional con r untry code of the country wher	nected number is coded as e SUT is located AND the next		
	"national (significan else set to "international numb	· er"			
	Number Incomplete Indicat Numbering Plan Indicator = E.164)	or = complete = ISDN (Telephony) numbering	g plan (Recommendation		
	Address Presentation Rest	ricted Indicator = Privacy_VA	as indicate in table 6.3.2-1		
	Screening Indicator = user	provided, not verified			
	Address Signals	nificant) number" then set to N	DC + SN		
	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	er is present the address signa	al are derived from the		
	P-Asserted-Identity in UPDATE				
ISUP Parameter values	IAM: Optional Forward Call I	ndicators			
		ntity Request = requested			
	ANM: Connected number				
		onal connected number			
SIP Parameter values	INVITE: Supported: from-cha				
	180: from-change tag include				
Comments	INVITE (IAM) / 180: from-char	ge tag not present			
Message flows	SIP-I	MGCF	SIP NNI		
wiessage nows	INVITE (IAM) →	WIGCF →	INVITE		
		-			
	180 Ringing (ACM) ← ← 180 Ringing ← 200 OK (INVITE)				
		· IIR1 startes	200 OK (INVITE)		
		→	ACK		
	200 OK INVITE (ANM)	←	UPDATE		
	ACK →	→	200 OK (UPDATE)		
	Apply post test routine				

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	PICS 6.3.1/2 AND PICS 6.3.2/2		
Test Purpose name	'from-change' tag include	d in a received final respon	se	
Test Purpose	Ensure that on receipt of a final successful response and the 'from-change' tag is included the timer T _{TIR1} is started. The 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 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			
	"international number"			
	Number Incomplete In			
	Numbering Plan Indicator = ISDN (Telephony) numbering plan (Recommendation E.164)			
	Address Presentation Restricted Indicator = Privacy_VA as indicate in table 6.3.2-1			
	Screening Indicator = user provided, not verified			
	Address Signals			
	If NOA is "national (significant) number" then set to NDC + SN.			
	If NOA is "international number" then set to CC + NDC + SN			
	In addition a Connected number is present the address signal are derived from the			
IOUD Deservation and the	P-Asserted-Identity in UPDATE request			
ISUP Parameter values	IAM: Optional Forward Call Indicators			
	Connected Line Identity Request = requested ANM: Connected number			
	Generic number - additional connected number			
SIP Parameter values	INVITE: Supported: fro		001	
on rainteter values			eader	
		200: from-change tag included in the Supported header INVITE (IAM) / 200: from-change tag not present		
Comments	(3 4.1.) / 2001 11 6111	onango tag not process		
Message flows	SIP-I	MGCF	SIP NNI	
3	INVITE (IAM)	→	→ INVITE	
	` '	←	← 180 Ringing	
	3 3 (- ,	T _{TIR1} started	← 200 OK (INVITE)	
		TIRT	→ ACK	
			AON	
	200 OK INVITE (ANM)	←	← UPDATE	
		→	→ 200 OK (UPDATE)	
	Apply post tost routing			
	Apply post test routine			

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

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

TP number	TP_402_006	Reference	[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	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 a 200 OK (INVITE) and the 'from-change' tag is present in the Supported header the timer T_{TIR1} is started. After expiry of T_{TIR1} the 200 OK INVITE with			
		encapsulated ANM is sent		
ISUP Parameter values	-	IAM: Optional Forward Call Indicators		
		e Identity Request = reque	ested	
	ANM: Connected number	ANM: Connected number		
SIP Parameter values	INVITE: Supported: fro	INVITE: Supported: from-change		
	200: from-change tag included in the Supported header			
	INVITE (IAM) / 200: from	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)	
		TIICI	→ ACK	
	200 OK INVITE (ANM)	← T _{TIR1} expired		
	ACK	→		
	Apply post test 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		
Test Purpose name	Interworking of SIP Supported header into Optional forward call 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 Indicators		
	Connected Line Identity 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/		[[-], o.a.a.a.
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/2	
Test Purpose name	Mapping of Additional connected number presentation allowed into the From header in an UPDATE request.		
Test Purpose	Ensure that on receipt of 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" Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used		
	The P-Asserted-Identity is derived from the Connected number as follows Connected number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used "international number" Map complete Connected Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation allowed then no Privacy header present or not "header" or not "user"		
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	, ,		
Message flows	SIP NNI INVITE 180 Ringing 200 OK (INVITE) UPDATE 200 OK (UPDATE)	MGCF ← ← Apply post test r	SIP-I → INVITE (IAM) ← 180 Ringing (ACM) ← 200 OK INVITE (ANM) → ACK outine

TP number	TP_402_009	Reference	[1], clause 7.2.1 [2], clause 7.5.2
TSS reference	IMS-SS/TIP-TIR/	-	16 32
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/2	
Test Purpose name	Mapping of Additional connected number presentation restricted into the From header in an UPDATE request		
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 ANM copied into the From header as described below Generic number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Generic Number Address Signals then map to user portion of URI scheme used "international number" Map complete Generic Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used		
	The P-Asserted-Identity is derived from the Connected number as follows Connected number Nature of Address Indicator "national (significant) number" Add "+" CC (of the country where the IWU is located) to Connected Number Address Signals then map to user portion of URI scheme used "international number" Map complete Connected Number Address Signals used prefixed with a "+" to user portion of URI scheme used Address Presentation restriction indicator presentation restricted then Privacy: header Address Signals: "+" CC NDC SN mapped to user portion of URI scheme used		
ISUP Parameter values	IAM: Optional forward call indicator Connected Line Identity Request = requested ANM: Generic number additional connected number Address Presentation restriction indicator = presentation restricted		
SIP Parameter values Comments	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>		
Message flows	SIP NNI	MGCF	SIP-I
meddage nows	INVITE → 180 Ringing ← 200 OK (INVITE) UPDATE ← 200 OK (UPDATE) →	Apply post test routine	INVITE (IAM) 180 Ringing (ACM) 200 OK INMVITE (ANM)

6.3.3 Communication Diversion (CDIV)

TP number	TP_403_001	Reference	[1], clause 7.3.1	
			[2], clauses 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 For	warded) or 183 Session	
	Progress with encapsulated ACM R			
Test Purpose	Ensure that on receipt of 181 (Call Is or 183 Session Progress with encapa cause parameter is mapped into the	sulated ACM is sent. Th		
	 If CC of the hi-targeted-to-uri is 		where the SLIT is located:	
	Nature of address indicator is s			
	country code is removed from the			
	Redirection number.	0 0	3	
	 If the country code of the hi-targ 	geted-to-uri is not equal	the country code where the	
	SUT is located: Nature of addre			
	removed from the digit string ar	nd sent in the Address si	gnal of the Redirection number	
ISUP Parameter values	ACM: Generic Notification			
		Redirection number		
	Nature of address indicator			
	Address signal Derived from the last History-Info entry			
SIP Parameter values	181:	nistory-inio entry		
SIF Farameter values		PIx: inday=1		
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>			
	183/181 (ACM): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	\rightarrow \rightarrow	INVITE	
	, ,	+	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], clauses 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 ACM		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) an 183 Session Progress or 183		
-	Session Progress with encapsulated		
	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>l>; index=1,</th><th></th></sip:any>	l>; index=1,	
	<sip:any proper="" td="" ur<=""><td>l;cause=any>; inde</td><td>x=1.1</td></sip:any>	l;cause=any>; inde	x=1.1
	183/181 (ACM): History-Info not pre	sent	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
	,		← 181 Call Is Being Forwarded
	CASE A		ű
	183 Session Progress (ACM)	←	
	CASE B		
	181 Call Is Being Forwarded (ACM)	←	
	Apr	ly post test routin	ie

TP number	TP 403 002	Reference	[1], clause 7.3.1	
1	00_00_		[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.3	
TSS reference	IMS-SS/CDIV/		1,000	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 181 escaped Privac	y header into 181 (Call Is Be	ing Forwarded) or 183 Session	
	Progress with encapsulated AC	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 enca			
	The Redirection number restrict		ped Privacy header in the	
	last History entry as indicated in	table 6.3.3-1		
ISUP Parameter values	ACM: Redirection number restr	riction= PRES_restr		
SIP Parameter values	181:			
	History-Info: <sip:any prop<="" th=""><th>er URI>; index=1,</th><th></th></sip:any>	er URI>; index=1,		
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
	181/183 (ACM): History-Info no	t present		
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→ →	INVITE	
		+	181 Call Is Being Forwarded	
	CASE A		•	
	183 Session Progress (ACM)	←		
	CASE B			
	181 Call Is Being Forwarded (A	CM) ←		
	,	Apply post test routine		

TP number	TP_403_003	Reference	[1], clause 7.3.1
i Filallibei	17_403_003	Reference	:
			[2], clauses 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	Mapping of 181 Privacy header into 181 (Call Is Being Forwarded) or 183 Session		
	Progress with encapsulated A	CM Redirection number r	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	3	-
ISUP Parameter values	ACM: Redirection number res	striction= PRES_restr	
SIP Parameter values	181:		
	Privacy= Priv-value		
	History-Info: <sip:any pro<="" th=""><th>per URI>: index=1.</th><th></th></sip:any>	per URI>: index=1.	
I		per URI;cause=any value	e>: index=1.1
	181/183 (ACM): History-Info r		·
Comments		•	
Message flows	SIP-I	MGCF	SIP NNI
•	INVITE (IAM)	→	→ INVITE
	,		← 181 Call Is Being Forwarded
	CASE A		t 101 Gail to Boilig 1 Giwardod
	181 Call Is Being Forwarded	←	
	(ACM)		
	CASE B		
	183 Session Progress (ACM)	←	
		Apply post test routi	ine

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

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

TP number	TP_403_004	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5		
Test Purpose name	Mapping of 181 Privacy heads	er into 181 (Call Is Being F	orwarded) or 183 Session	
	Progress with encapsulated A	CM Notification subscription	on options	
Test Purpose	Ensure that on receipt of 181	(Call Is Being Forwarded)	containing a Privacy header, a 181	
	(Call Is Being Forwarded) or 1	83 Session Progress with	encapsulated ACM is sent.	
	The Notification subscription of	ptions in the Call Diversio	n Information parameter is set	
	according the Privacy header	in the message body as in	dicated in table 6.3.3-2	
ISUP Parameter values	ACM: Call Diversion Informat			
	Notification subscrip	otion options=SUBS_option	ons	
SIP Parameter values	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 r	ot 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 routing	ne	

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

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

TP number	TP_403_005	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/		100.0, 7.0.112.11.1	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	[′] 5		
Test Purpose name	Mapping of 181 escaped Priva	cy header into 181 (Call I	s Being Forwarded) with or 183	
-	Session Progress encapsulate			
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded)	or 183 Session Progress	
-	containing an escaped Privacy	containing an escaped Privacy header field in the last hi-targeted-to-uri, a 181 (Call Is		
	Being Forwarded) with encaps			
			n Information parameter is set	
			y entry as indicated in table 6.3.3-3	
ISUP Parameter values	ACM: Call Diversion Informat	• • • •		
		otion options= SUBS_opti	ons	
SIP Parameter values	181:			
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>			
	<pre><sip:any proper="" uri;cause="any" value?privacy="Priv-value">; index=1.1</sip:any></pre>			
	181/183 (ACM): History-Info n	ot 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 routing	ne	

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

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

TP number	TP_403_006	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/	•	•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5		
Test Purpose name	Mapping of 181 hi-targeted-to	-uri into 181 (Call Is Being	g Forwarded) or 183 Session	
	Progress with encapsulated A	CM 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	183 Session Progress with encapsulated ACM is sent. The cause parameter of the last hi-		
	entry is mapped into the Redi	recting reason in the Call	Diversion Information parameter is	
	set as indicated in table 6.3.3	-4		
ISUP Parameter values	ACM: Redirection number			
	Call Diversion Informa	tion		
	Redirecting reason	= Redirecting_Reason		
SIP Parameter values	181:			
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>			
		per URI;cause= CAUSE _	value>; index=1.1	
	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 rout	ine	

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	
Ti Halliber	11 _403_007	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
T00 (IN 40, 00 (0 DI) //		table, 7.5.4.2.1.7	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.5/3 AND PICS 6.3.1			
Test Purpose name		Mapping of 181 hi-targeted-to-uri cause parameter into 181 Call Is Being Forwarded with or 183 Session Progress encapsulated CPG Event indicator		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 (Call Is Being Forwarded) o			
-	183 Session Progress with er	capsulated CPG is sent.	The Event indicator is set to	
	'Redirecting_Reason' as ind			
ISUP Parameter values	CPG: Event=Redirecting_R			
	5 _			
SIP Parameter values	181:			
	History-Info: <sip:any pro<="" th=""><th>pper URI>: index=1.</th><th></th></sip:any>	pper URI>: index=1.		
		per URI;cause=CAUSE_	value>: index=1.1	
	181/183 (CPG): History-Info r			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	180 Ringing (ACM)	É	← 180 Ringing	
	100 Kinging (AOM)	•	← 181 Call Is Being Forwarded	
	CACEA		101 Call is being I diwarded	
	CASE A	_	To real is being rorwarded	
	181 Call Is Being Forwarded	(To real is being rotwarded	
	07.0=7.	←	To real is being rotwarded	
	181 Call Is Being Forwarded	←	To real is being retwended	
	181 Call Is Being Forwarded (CPG)	←	To real is being retwended	

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

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

TP number	TP_403_008	Reference	[1], clause 7.3.1
			[2], clauses 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/		
Test Purpose name	Mapping of 181 hi-targeted-to-		varded or 183 Session
	Progress with encapsulated Cl	PG Redirection number	
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) a 181 (Call Is Being Forwarded) or		
			he History-Info entry containing
	a cause parameter is mapped		
		uri is equal the country code	
		or is set to 'national (significa	
		rom the digit string and sent in	n the Address signal of the
	Redirection number.		
		ni-targeted-to-uri is not equal i	
		address indicator is set to 'int	
IOUD Developed		ng and sent in the Address si	gnal of the Redirection number
ISUP Parameter values	CPG: Redirection number Nature of address	indicator	
		indicator	
	Address signal	lost History Info ontry	
SIP Parameter values	Derived from the last History-Info entry 181:		
SIF Farameter values	History-Info: <sip:any pro<="" th=""><th>oor LIDIs : indov_1</th><th></th></sip:any>	oor LIDIs : indov_1	
		per URI;cause=any>; index=	1 1
	181/183 (CPG): History-Info no		''
Comments	1017103 (G1 G): 1 listory line in	or present	
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	
		Apply post test routine	_

TP number	TP_403_008A	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/	•	<u> </u>
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Sending of Generic Notification	on in the encaps	sulated CPG
Test Purpose			Forwarded) containing a History-Info header a
			on Progress with the encapsulated CPG is sent.
		eter is sent in th	ne 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></th><th></th></sip:any>		
		•	e=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	t test routine

TP number	TP_403_008B	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,
	1110 00/00/07		table, 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Sending of CPG Event indicator '		
Test Purpose			181 (Call Is Being Forwarded) or
	183 Session Progress with the er		t. 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 prope<="" th=""><th>r URI>; index=1,</th><th></th></sip:any>	r URI>; index=1,	
	<sip:any prope<="" th=""><th>er URI;cause=any>; inde</th><th>ex=1.1</th></sip:any>	er URI;cause=any>; inde	ex=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		- 101 Gam 10 Zom 19 1 Or 11 and 0 a
	181 Call Is Being Forwarded	←	
(CPG)			
	CASE B		
	183 Session Progress (CPG)	←	
	(C. C)	Apply post test routing	e

TP number	TP_403_009	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/	•	,
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5	
Test Purpose name	Mapping of 181 escaped Privacy header into 181 Call Is Being Forwarded or 183 Session		
	Progress with encapsulated C	PG Redirection number r	restriction
Test Purpose), a 181 (Call Is Being Forwarded) or
	183 Session Progress with en		
			escaped Privacy header in the
	last History entry as indicated		
ISUP Parameter values	CPG: Redirection number res	striction = PRES_restr	
SIP Parameter values	181:		
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>		
			e? <i>Privacy=Priv-value</i> >; 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)	←	
		Apply post test rout	ine

TP number	TP_403_010	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,
TCC votovovo	IMAC 00/00IV//		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 Mapping of 181 Privacy header into early 181 Call Is Being Forwarded or 183 Session		
Test Purpose name	Mapping of 181 Privacy heade Progress with encapsulated Cl		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded), a 181 Call Is Being Forwarded with or 183 Session Progress encapsulated CPG is sent. The Redirection number restriction is set according the Privacy header as indicated in table 6.3.3-1.		
ISUP Parameter values	CPG: Redirection number res	triction = 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)	←	
		Apply post test routine	9

TP number	TP_403_011	Reference	[1], clause 7.3.1
			[2], clauses 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/		
Test Purpose name	Mapping of 181 Privacy header into 181 Call Is Being Forwarded or 183 Session Progress with encapsulated CPG Notification subscription options		
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 of		
	according the Privacy header i		
ISUP Parameter values	CPG: Call Diversion Informati		ited in table 0.3.3-2
1301 Farameter values		otion options=SUBS_options	
SIP Parameter values	181:		
	Privacy: Priv-value		
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>		
		per URI;cause=any value>; in	dex=1.1
	181/183 (CPG): History-Info no	ot present	
Comments			
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)		NVITE
	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_012	Reference	[1], clause 7.3.1
	11 _ 100_012		[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		table, Fig. 112.11.1
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 or 183 Session		
-	Progress with encapsulated CPG Notification subscription options		
Test Purpose	Ensure that on receipt of 181 (Call Is Being Forwarded) conta	aining an escaped Privacy
	header field in the last hi-target		Forwarded or 183 Session
	Progress with encapsulated CF		
	The Notification subscription of		
	according the escaped Privacy		y as indicated in table 6.3.3-3
ISUP Parameter values	CPG: Call Diversion Information	•	
		tion options=SUBS_options	
SIP Parameter values	181:		
	History-Info: <sip:any prop<="" th=""><th></th><th></th></sip:any>		
		per URI;cause=any value? <i>Priv</i>	<i>acy=Priv-value></i> ; 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)		
	0.000		
	CASE B		
	183 Session Progress (CPG)		
		Apply post test routine	

TP number	TP_403_013	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 181 hi-targeted-to-uri into 181 Call Is Being Forwarded or 183 Session		
	Progress with encapsulated CPG Redirecting Reason		
Test Purpose			a 181 Call Is Being Forwarded or
			Γhe History-Info entry containing a
			in the Call Diversion Information
	parameter is set as indicated	in table 6.3.3-4	
ISUP Parameter values	CPG:		
	Call Diversion Informa		
		= Redirecting_Reason	
SIP Parameter values	181:		
	History-Info: <sip:any pro<="" th=""><th></th><th></th></sip:any>		
		oper URI;cause= CAUSE _v	value>; 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 routi	ne

TP number	TP_403_014	Reference	[1], clause 7.3.1
	11 _ 100_011	1.010.01.00	[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.2
TSS reference	IMS-SS/CDIV/		table, Fig. 1.2.112
Selection criteria	PICS 6.3.1/2 AND PIC	S 6 3 2/5	
Test Purpose name			g) with encapsulated ACM Redirection
Tool Turpood Hamo	number	otod to dir into d 100 (Kingin	g) with choopediated 7 CM (California)
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 num		
		ddress indicator	
	Address sig	•	
		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			212 1111
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], clauses 7.5.4.2.1, table, 7.5.4.2.1.6	
TSS reference	IMS-SS/CDIV/		table, 7.5.4.2.1.0	
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name				
<u> </u>		otification in an ACM free		
Test Purpose			ging with an encapsulated ACM	
	(subscriber free) is ser	nt. The last History-Info enti	y containing a cause parameter. A	
	Generic Notification pa	arameter is sent in the ACM	set to 'call is diverting'.	
ISUP Parameter values	ACM: Backward call in		3	
	Called party	status=subscriber free		
	Generic Notifica			
	call is divert			
SIP Parameter values	180:	····9		
	History-Info: <sip:< th=""><th>any proper URI>; index=1,</th><th></th></sip:<>	any proper URI>; index=1,		
	,	any proper URI;cause=an	v>: index=1.1	
	180 (ACM): History-Inf		,, , 	
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	180 Ringing (ACM)	←	← 180 Ringing	
		Apply post test		

TP number	TP_403_015	Reference	[1], clause 7.3.1
			[2], clauses 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	ed Privacy header into a 180	(Ringing) with encapsulated ACM
	Redirection number re	striction	
Test Purpose	Ensure that on receipt	of 180 (Ringing), a 180 (Rin	ging) with encapsulated ACM
	(subscriber free) is ser	nt.	
	The Redirection number	er restriction is set according	the escaped Privacy header in the
	last History entry as in-	dicated in table 6.3.3-1	
ISUP Parameter values	ACM: Redirect	tion number restriction= PRE	S_restr
SIP Parameter values	180:		
	History-Info: <sip:< th=""><th>any proper URI>; index=1,</th><th></th></sip:<>	any proper URI>; index=1,	
	<sip:< th=""><th>any proper URI;cause=any?</th><th>Privacy=Priv-value>; index=1.1</th></sip:<>	any proper URI;cause=any?	Privacy=Priv-value>; index=1.1
	180 (ACM): History-Inf	o not present	•
Comments		-	
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
	180 Ringing (ACM)	←	← 180 Ringing
		Apply post test i	8 8

TP number	TP_403_016	Reference	[1], clause 7.3.1 [2], clauses 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 Privacinumber restriction	y header into a 180 (Ringing) w	rith 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: Redirect	tion number restriction= PRES_	restr	
SIP Parameter values		any proper URI>; index=1, any proper URI;cause=any valu	ue>; index=1.1	
Comments				
Message flows	SIP-I INVITE (IAM) 180 Ringing (ACM)	MGCF → ← ← Apply post test rou	180 Ringing	

TP number	TP_403_017	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,		
TSS reference	IMS-SS/CDIV/		table, 7.5.4.2.1.4		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5			
			n encapsulated ACM Notification		
Test Purpose name	subscription options	er into a 180 (Ringing) with	rencapsulated ACM Notification		
Test Purpose			acy header, a 180 (Ringing) with		
	encapsulated ACM (subscribe				
			n Information parameter is set		
	according the Privacy header	r in the message body as i	indicated in table 6.3.3-2		
ISUP Parameter values	ACM: Call Diversion I	nformation			
	Notification subscription options=SUBS_options				
SIP Parameter values	180:				
	Privacy: Priv-value				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
		pper 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 routing	8 8		

TP number	TP_403_018	Reference	[1], clause 7.3.1	
			[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5		
Test Purpose name	Mapping of 181 escape	ed Privacy header into a 18	30 (Ringing) with encapsulated ACM	
	Notification subscriptio	n options		
Test Purpose			g an escaped Privacy header field in the	
			sulated ACM (subscriber free) is sent.	
	The Notification subsci	ription options in the Call D	iversion Information parameter is set	
	according the escaped	d Privacy header in the las	st 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:< th=""><th>any proper URI>; index=1,</th><th></th></sip:<>	any proper URI>; index=1,		
			value? <i>Privacy=Priv-value</i> >; 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		

TP number	TP 403 019	Reference	[1], clause 7.3.1		
Ti mamboi	11 _ 100_010	11010101100	[2], clauses 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	S 6.3.2/5			
Test Purpose name	Mapping of 180 hi-targe	eted-to-uri into a 180 (Ringi	ng) with encapsulated ACM Redirecting		
	Reason				
Test Purpose	Ensure that on receipt	of 180 (Ringing) a 180 (Rin	ging) with encapsulated ACM (subscriber		
-			a cause parameter is mapped into the		
			on parameter is set as indicated in		
	table 6.3.3-4				
ISUP Parameter values	ACM:				
	Call Diversion Ir	oformation			
	Redirecting reason= Redirecting_Reason				
SIP Parameter values	180:				
on rarameter values		any proper LIPI:cauco_CAI	ISE values: index=1		
	History-Info: <sip:any proper="" uri;cause="<b">CAUSE_value>; index=1,</sip:any>				
		any proper URI>; index=1.1			
	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				
		Apply post test	TOURING		

TP number	TP_403_020	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.1,		
TSS reference	IMC CC/CDIV//		table, 7.5.4.2.1.2		
	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2				
Test Purpose name	number		rith encapsulated CPG Redirection		
Test Purpose			with encapsulated CPG Alerting is		
	sent. The last History-Info enti Redirection number:	y containing a cause para	ameter is mapped into the		
		-uri is equal the country c	ode where the SUT is located:		
			nificant) number', '+' and the		
		from the digit string and s	ent in the Address signal of the		
	Redirection number.				
			qual the country code where the		
			o 'international number' '+' is		
ISUP Parameter values		ing and sent in the Addre	ss signal of the Redirection number		
150P Parameter values	CPG:				
	Redirection number Nature of address indicator				
	Address signal				
	Derived from the last History-Info entry				
SIP Parameter values	180:	o last rilotory irrio critiy			
	History-Info: <sip:any pro<="" th=""><th>per URI>; index=1,</th><th></th></sip:any>	per URI>; index=1,			
		per URI;cause=any>; inc	dex=1.1		
	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 (CPG) ←	←	180 Ringing		
		Apply post test routi	ne		

TP number	TP 403 020A	Reference		[1], clause 7.3.1		
				[2], clauses 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 encapsula	ted CPG after	180		
Test Purpose		of 180 (Ringing) an enca				
	History-Info entry conta	aining a cause paramete	The CPG con	tains 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 colspan="5">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></sip:<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<pre><sip:any proper="" uri;cause="any">; index=1.1</sip:any></pre>					
	180 (CPG): History-Info not present					
Comments						
Message flows	SIP-I	MGCF		SIP NNI		
_	INVITE (IAM)	→	→ INVIT	E		
	181 Call Is Being	←	← 181 C	Call Is Being Forwarded		
	Forwarded (ACM)			3		
	180 Ringing (CPG)	←	← 180 F	Ringing		
	3.19(0.0)	Apply post to		3 3		

TP number	TP_403_020B	Reference	[1], clause 7.3.1 [2], clauses 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 Event indic	ator 'Alerting' in an encaps	ulated CPG after 180		
Test Purpose	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 message is set to 'Alerting'.				
ISUP Parameter values	CPG: Event=Alerting				
SIP Parameter values	,	cany proper URI>; index=1, cany proper URI;cause=ar to not present			
Comments		-			
Message flows	SIP-I INVITE (IAM) 181 Call Is Being Forwarded (ACM) 180 Ringing (CPG)	MGCF ← Apply post tes	SIP NNI → INVITE ← 181 Call Is Being Forwarded ← 180 Ringing t routine		

TP number	TP_403_021	Reference	[1], clause 7.3.1	
			[2], clauses 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 res		(Ringing) with encapsulated CPG	
Test Purpose	Ensure that on receipt	of 180 (Ringing), a 180 (Rir	ging) with encapsulated CPG Alerting is	
	sent.			
	The Redirection number	er 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	CPG: Redirection nun	nber restriction= PRES_res	tr	
SIP Parameter values	180:			
	History-Info: <sip:< th=""><th>any proper URI>; 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	MGCF	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	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,		
TSS reference	IMS-SS/CDIV/		table, 7.5.4.2.1.3		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5			
Test Purpose name		cy header into CPG Redired	ction number restriction		
Test Purpose	Ensure that on receipt of 180 (Ringing), a 180 Ringing with encapsulated CPG Alerting is sent. The Redirection number restriction is set according the Privacy header as indicated in table 6.3.3-1				
ISUP Parameter values	CPG: Redirection nu	mber restriction= PRES_re	str		
SIP Parameter values	180: Privacy=Priv-value History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
Comments					
Message flows	SIP-I INVITE (IAM) 181 Call Is Being Forwarded (ACM) 180 Ringing	MGCF → ←	SIP NNI → INVITE ← 181 Call Is Being Forwarded ← 180 Ringing		
	(CPG-Ringing) Apply post test routine				

TP number	TP_403_023	Reference	[1], clause 7.3.1 [2], clauses 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 Privac	y header into CPG Notifica	ation subscription options		
Test Purpose	Ensure that on receipt of 180 (Ringing) containing a Privacy header, a 180 Ringing with encapsulated CPG Alerting 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 I	nformation			
	Notification	subscription options=SUB	S_options		
SIP Parameter values	180: **Privacy: *Priv-value** History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any>				
	180 (CPG): History-Inf		•		
Comments		-			
Message flows	SIP-I	MGCF	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 403 024	R	eference	[1], clause 7.3.1		
				[2], clauses 7.5.4.2.1,		
				table, 7.5.4.2.1.4		
TSS reference	IMS-SS/CDIV/	<u> </u>		, ,		
Selection criteria	PICS 6.3.1/2 AND PIC	CS 6.3.2/5				
Test Purpose name	Mapping of 180 escar	ped Privacy	header into CPG Noti	ification subscription options		
Test Purpose	last hi-targeted-to-uri,	a 180 (Ring	ging) with encapsulate	scaped Privacy header field in the ed CPG Alerting is sent. on Information parameter is set		
				ory entry as indicated in		
ISUP Parameter values	CPG: Call Diversion	Information				
	Notification	n subscriptio	n options=SUBS_opt	ions		
SIP Parameter values	180:					
	History-Info: <sip< th=""><th colspan="5">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></sip<>	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)	→	→	INVITE		
	181 Call Is Being	←	+	181 Call Is Being Forwarded		
	Forwarded (ACM)			9		
	180 Ringing (CPG - Alerting)	←	+	180 Ringing		
			Apply post test rout	ine		

TP number	TP_403_025	Reference	[1], clause 7.3.1		
			[2], clauses 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-targe	eted-to-uri into CPG Redire	cting Reason		
Test Purpose	Ensure that on receipt of	of 180 (Ringing) a 180 (Ring	ging) with encapsulated CPG Alerting is		
			e parameter is mapped into the		
	Redirecting reason in th	ne Call Diversion Information	on parameter is set as indicated in		
	table 6.3.3-4				
ISUP Parameter values	CPG: Call Diversion In	CPG: Call Diversion Information			
	Redirecting r	eason= Redirecting_Reas	son		
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)				
	Apply post test routine				

TP number	TP_403_026	Reference	[1], clause 7.3.1 [2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.2	
TSS reference	IMS-SS/CDIV/	•	· ·	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name	Mapping of 200 OK hi-targeted-to-uri into ANM Redirection number			
Test Purpose	containing a cause para	meter is mapped into the		
	Nature of address in country code is rem Redirection number	ndicator is set to ' nation al loved from the digit string '.	untry code where the SUT is located: al (significant) number', '+' and the g and sent in the Address signal of the	
	SUT is located: Nat	ure of address indicator	s not equal the country code where the is set to 'international number' '+' is Address signal of the Redirection number	
ISUP Parameter values		ANM: Redirection number		
	Nature of address indicator			
	Address signal			
OID Deservation relies	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>		
	200 (ANM): History-Info		iy value>, index=1.1	
Comments	200 (Farmi): Finotory mile	not procent		
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	181 Call Is Being Forwarded (ACM)	←	← 181 Call Is Being Forwarded	
	180 Ringing (CPG)	←	← 180 Ringing	
	200 OK INVITE (ANM)	←	← 200 OK INVITE	
	ACK	→	→ ACK	
		Apply post tes	t routine	

TP number	TP 403 027	Reference	[1], clause 7.3.1
			[2], clauses 7.5.4.2.1,
			table, 7.5.4.2.1.3
TSS reference	IMS-SS/CDIV/		idolo, Floring
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5		
Test Purpose name	Mapping of 200 escape	d Privacy header into ANI	M Redirection number restriction
Test Purpose	Ensure that on receipt of	f 200 (INVITE), a 200 OK	INVITE (ANM) with encapsulated ANM is
	sent.		
			ng the escaped Privacy header in the
	last History entry as indi	cated in table 6.3.3-1	
ISUP Parameter values	ANM: Redirection num	ber restriction= PRES_re	str
SIP Parameter values	200 OK:		
	History-Info: <sip:a< th=""><th>ny proper URI>; index=1,</th><th></th></sip:a<>	ny proper URI>; index=1,	
	<sip:a< th=""><th>ny proper URI;cause=any</th><th>/ value? Privacy=Priv-value>; index=1.1</th></sip:a<>	ny proper URI;cause=any	/ value? Privacy= Priv-value> ; 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)		
	180 Ringing (CPG)	←	← 180 Ringing
	200 OK INVITE (ANM)	←	← 200 OK INVITE
	ACK	→	→ ACK
		Apply post tes	

TP number	TP_403_028	Reference	[1], clause 7.3.1 [2], clauses 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 6.3.2/5		
Test Purpose name	Mapping of 200 Privacy Redirection number rest		TE (ANM) with encapsulated ANM	
Test Purpose	ANM is sent. The Redirection number	Ensure that on receipt of 200 OK (INVITE), a200 OK INVITE (ANM) with encapsulated		
	table 6.3.3-1			
ISUP Parameter values		ber restriction= PRES_re	str	
SIP Parameter values	200 OK:			
	Privacy= Priv-value			
	History-Info: <sip:a< th=""><th colspan="3">History-Info: <sip:any proper="" uri="">; index=1,</sip:any></th></sip:a<>	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="any" value="">; index=1.1</sip:any></pre>			
	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)		Ğ	
	180 Ringing (CPG)	←	← 180 Ringing	
	200 OK INVITE (ANM)	←	← 200 OK INVITE	
	ACK	→	→ ACK	
	Apply post test routine			

TP number	TP 403 029	Reference	[1], clause 7.3.1	
Transor	11 _ 100_020	Ttoronous	[2], clauses 7.5.4.2.1,	
			table, 7.5.4.2.1.2	
TSS reference	IMS-SS/CDIV/	L	14010, 7.0.4.2.1.2	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5			
Test Purpose name		Mapping of 200 OK hi-targeted-to-uri into 200 OK (INVITE) with encapsulated CON		
rest r di pose name	Redirection number		. ,	
Test Purpose			OK (INVITE) with encapsulated CON is	
	number:	ntry containing a cause pa	rameter is mapped into the Redirection	
		atad to uri is agual the sou	ntry and where the SLIT is leasted:	
			ntry code where the SUT is located: (significant) number', '+' and the	
			and sent in the Address signal of the	
	Redirection numbe		and Sent in the Address signal of the	
		• •	not equal the country code where the	
			s set to 'international number' '+' is	
			Address signal of the Redirection number	
ISUP Parameter values		CON: Redirection number		
	Nature of address indicator			
	Address signal			
	Derived from the last History-Info entry			
SIP Parameter values	200 OK:			
		ny proper URI>; index=1,		
	<pre><sip:any ;="" index="1.1</pre" proper="" uri;cause="any" value=""></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 test	routine	

TP number	TP_403_030	Reference	[1], clause 7.3.1 [2], clauses 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 Redirection number rest		OOK (INVITE) with encapsulated CON
Test Purpose	Ensure that on receipt of 200 (INVITE), a 200 OK (INVITE) with encapsulated CON is sent. The Redirection number restriction is set according the escaped Privacy header in the last History entry as indicated in table 6.3.3-1		
ISUP Parameter values	CON: Redirection number	per restriction= PRES_re	estr
SIP Parameter values	200 OK:		
		ny proper URI>; index=1	· ·
	<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 tes	st routine

TP number	TP_403_031	Reference	[1], clause 7.3.1 [2], clauses 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 I number restriction	header into 200 OK (INVITE) v	with encapsulated CON Redirection
Test Purpose	sent.		(INVITE) with encapsulated CON is Privacy header as indicated in
ISUP Parameter values	CON: Redirection numb	er 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], clauses 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	5	
Test Purpose name	Mapping of Redirecting numbe	r Address signals into History	y-Info header URI
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number parameter, an Original called number parameter and a Redirection Information parameter, an INVITE request is sent and a History-Info header is present. The value of the second last hi-targeted-to-uri Value of Redirecting number is mapped from the Redirecting number Address Signals as indicated in table 6.3.3-6		
ISUP Parameter values	IAM: Redirecting number Nature of Address: N	NoA_value ny appropriate value>	
SIP Parameter values	History-Info: <sip:any proper="" uri="">; ir</sip:any>	ng number;cause=any>; induse=any>; induse=any>;	dex=1.1
Comments			
Message flows	SIP-I INVITE (IAM) →	MGCF → IN Apply post test routine	SIP NNI VITE

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

	NoA_value	Value of Redirecting number second last hi-targeted-to-uri
VA_01	national (significant) number	Add '+' and the country code where the SUT is located to the
		Address Signal digits of the Redirecting number
VA 02	international number	Add '+' to the Address Signal digits of the Redirecting number

TP number	TP_403_033	Reference	[1], clause 7.3.1
	1		[2], clauses 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 Redirecting Privacy value	number Address presenta	tion restricted into History-Info header
Test Purpose	Ensure that on receipt	of an INVITE with encapsul	ated IAM containing a Redirecting, an
	Original called number	parameter number parame	ter and a Redirection Information
			y-Info header is present. A Privacy
			o-uri and the PRIV_value is mapped
	from the Address prese table 6.2.5-7	entation restricted indicator	of the Redirecting number as indicated in
ISUP Parameter values	IAM: Redirecting num	nber	
		sentation restricted indicate	or: APRI_value
	Redirection Info	rmation	
	Redirection		
	Original called r	number	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper<="" th=""><th></th><th></th></sip:any>		
		r URI;cause=any?Privacy=I	
	<sip: any="" proper="" uri;cause="any">; index=1.1.1</sip:>		
	INVITE (IAM): History-	Info not present	
Comments			217 1111
Message flows	SIP-I	MGCF	SIP NNI
	INVITE (IAM)	→	→ INVITE
		Apply post test	routine

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

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

TP number	TP_403_034	Reference	[1], clause 7.3.1
			[2], clauses 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	S 6.3.2/5	
Test Purpose name	Mapping of Redirection	n Information Redirecting indic	cator
Test Purpose			ed IAM containing a Redirecting
			Redirection Information parameter, an
			present. A Privacy header is escaped
			alue is mapped from the Redirecting
	indicator of the Redirect	ction Information as indicated	in table 6.2.5-21
ISUP Parameter values	IAM: Redirection Info	ormation	
	Redirection	counter=2	
	Redirecting	indicator=RDIND_value	
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:any proper<="" th=""><th>r URI>; index=1,</th><th></th></sip:any>	r URI>; index=1,	
	<sip: any="" prope<="" th=""><th>r URI;cause=any?Privacy=PR</th><th>RIV_value>; index=1.1</th></sip:>	r URI;cause=any?Privacy= PR	RIV_value>; index=1.1
	<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

	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], clauses 7.5.4.2.2,		
			table, 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/5			
Test Purpose name	Mapping of Redirection I	nformation Redirection co	unter		
Test Purpose			ated IAM containing a Redirecting		
			a Redirection Information parameter, an		
			and the index parameter of the		
	Redirection counter as ir	ndicated in table 6.3.3-9			
ISUP Parameter values	IAM: Redirection Inform	IAM: Redirection Information			
	Redirection co	Redirection counter=RDCONT_value			
SIP Parameter values	INVITE:				
	History-Info: HI-EN	TRY_values			
	INVITE (IAM): History-In	fo not present			
Comments		-			
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	Apply post test routine				

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

	RDCONT_value	HI-ENTRY_values
VA_01	1	<sip:represents called="" number="" original="" the="">; index=1,</sip:represents>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1</sip:>
VA_02	2	<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>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:></pre>
		<pre><sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1,</sip:></pre>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=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>
		<sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1,</sip:>
		<pre><sip: any="" placeholder="" represents="" value;cause="404">; index=1.1.1.1,</sip:></pre>
		<sip: number;cause="404" redirecting="" represents="" the="">; index=1.1.1.1.1,</sip:>
		<sip: called="" number;cause="any" party="" represents="" the="">; index=1.1.1.1.1.</sip:>

TP number	TP_403_036	Refer	ence	[1], clause 7.3.1 [2], clauses 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 Redi	ection Information C	riginal redirection	reason	
Test Purpose	Ensure that on receipt of an INVITE with encapsulated IAM containing a Redirecting number an Original called number and a Redirection Information parameter, an INVITE request is sent. The Original redirection reason indicator 'unknown' of the Redirection Information is mapped into the cause parameter '404' of the second hi-targeted-to-uri of the History-Info header in the sent INVITE as indicated in table 6.3.3-10				
ISUP Parameter values	IAM: Redirection	n Information			
	Redire	Redirection counter=2			
	Origin	al redirection reason	=unknown		
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	INVITE (IAM): History-Info not present				
Comments					
Message flows	SIP-I		MGCF	SIP NNI	
	INVITE (IAM)	→	→	INVITE	
	Apply post test routine				

Table 6.3.3-10: Void

TP number	TP_403_037	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.2,		
			table, 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/5			
Test Purpose name	Mapping of Redirection Inforr	nation Redirecting reason			
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 Information	n			
	Redirection counter=2				
	Redirecting reasor	n =REAS_value			
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:any pr<="" th=""><th>oper URI;cause=any>; index=1</th><th>.1,</th></sip:any>	oper URI;cause=any>; index=1	.1,		
	<sip: any="" p<="" th=""><th>roper URI;cause=Cause_value</th><th>>; index=1.1.1</th></sip:>	roper URI;cause=Cause_value	>; index=1.1.1		
	INVITE (IAM): History-Info not present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
_	INVITE (IAM) →	→ INV	/ITE		
	Apply post test routine				

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

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

TP number	TP 403 038	Reference	[11 clause 7.2.1		
i F number	17_403_036	Reference	[1], clause 7.3.1		
			[2], clauses 7.5.4.2.2,		
			table, 7.5.4.2.2.1		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/5			
Test Purpose name	Mapping of Calle	ed party number Address Signals			
Test Purpose	Ensure that on re	eceipt of an INVITE with encapsu	lated IAM containing a Redirecting		
	number paramet	er and a Redirection Information	parameter, an INVITE request is sent and		
	a History-Info he	ader is present. The Called party	number is mapped into the last hi-		
		the History-Info header as indica			
ISUP Parameter values	IAM: Called pa	rty number			
	Nature	Nature of Address: NoA value			
	Addre	ss 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): H	istory-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

	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
VA_02		Address Signal digits of the Called party 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], clauses 7.5.4.2.2,	
			table, 7.5.4.2.2.1	
TSS reference	IMS-SS/CDIV/		10010, 7.0.4.2.2.1	
Selection criteria	PICS 6.3.1/2 AND PICS 6			
Test Purpose name	Mapping of Original called	d number Address Signal:	S	
Test Purpose			ated IAM containing an Original called	
	number parameter and a	Redirection Information p	parameter, an INVITE request is sent and	
	a History-Info header is pr	resent. The value of the fi	irst hi-targeted-to-uri Value of Original	
			number Address Signals as indicated in	
	table 6.3.3-13	g		
ISUP Parameter values	IAM: Original called number			
	Nature of Address: NoA value			
	Address Signals < Digits>			
CID Deservator values				
SIP Parameter values	INVITE:			
		lue of Original called nu		
		y proper URI;cause=any>	; index=1.1	
	INVITE (IAM): History-Info not present			
Comments				
Message flows	SIP-I	MGCF	SIP NNI	
	INVITE (IAM)	→	→ INVITE	
	` ,	Apply post test	routine	

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

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

TP number	TP 403 040	Reference	[1], clause 7.3.1		
			[2], clauses 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 Original ca	alled number Address presentat	ion restricted indicator		
Test Purpose			d IAM containing an Original called		
	number parameter, ar	INVITE request is sent and a F	listory-Info header is present. A		
			and the PRIV_value is mapped from		
	the Address presentat	tion restricted indicator of the Or	iginal called number as indicated in		
	table 6.3.3-14				
ISUP Parameter values	IAM: Original called	IAM: Original called number			
	Address pro	Address presentation restricted indicator: APRI_value			
	Address Si	Address Signals <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 routine				

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

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

TP number	TP_403_041	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.4.3,		
			table, 7.5.4.3.2		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5	5			
Test Purpose name	Second latest History-Info head	der field entry mapped into Red	directing number Nature of		
	address indicator				
Test Purpose	Ensure that on receipt of an IN				
	with encapsulated IAM is sent a				
	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 indicator=NoA_value				
SIP Parameter values	INVITE:				
	History-Info: <sip:any proper="" uri="">; index=1,</sip:any>				
	<sip:second< th=""><th>last entry URI;cause=any>; in</th><th>ndex=1.1,</th></sip:second<>	last entry URI;cause=any>; in	ndex=1.1,		
	<sip:any prop<="" th=""><th>er URI;cause=any>; index=1.</th><th>1.1</th></sip:any>	er URI;cause=any>; index=1.	1.1		
	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

	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], clauses 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 field entry is mapped into Redirecting number Address			
	signal			
Test Purpose	Ensure that on receipt of an IN			
	with encapsulated IAM is sent			
	Redirection information parame	•	• ·	
	number is mapped from the hi-			
	cause-param URI parameter ir	the format +'CC+NDC+SN' as	s indicated in table 6.3.3-16	
ISUP Parameter values	IAM: Redirecting number			
		ved from the second last Hist-e	ntry	
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 6.3.3-16: Mapping of second last first Hist-entry into Redirecting number Address signal

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

TP number	TP 403 043	Reference	[1], clause 7.2.1
			[2], clauses 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	5.3.2/5	
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 number Address presentation restricted indicator=APRI_value		
SIP Parameter values	INVITE: History-Info: <sip:any proper="" uri="">; index=1, <sip:any proper="" uri;cause="any?Privacy=PRIV_value">; index=1.1, <sip:any proper="" uri;cause="any">; index=1.1.1 INVITE (IAM): History-Info not present</sip:any></sip:any></sip:any>		
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], clauses 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 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 Privacy header of the received INVITE request as indicated in table 6.3.3-17.		
ISUP Parameter values	IAM: Redirecting number Address presentation restricted indicator=APRI_value		
SIP Parameter values	INVITE: Privacy: PRIV_value History-Info: <sip:any proper="" uri="">; i <sip:any (iam):="" history-info="" invite="" not<="" proper="" th="" uri;ca=""><th>use=any>; index=1.1</th><th></th></sip:any></sip:any>	use=any>; index=1.1	
Comments			
Message flows	SIP NNI INVITE 100 Trying		SIP-I INVITE (IAM)

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

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

TP 403 045	Reference	[1], clause 7.2.1
11 _ 100_0 10	1.010101100	[2], clauses 7.5.4.3,
		table, 7.5.4.3.3
IMS-SS/CDIV/		table, 7.3.4.3.5
	2.6.2.2/5	
		· (
Escaped Privacy header is mapped into Redirection information Redirecting indicator		
Redirection information	parameter is present. The R	edirecting indicator of the
Redirection information	is mapped from the escaped	Privacy header of the second last
History-Info header field	d entry and last History-Info h	eader field in the received INVITE
request as indicated in	table 6.3.3-18	
IAM: Redirection info	rmation	
Redirecting i	ndicator=RDIND_value	
INVITE:		
History-Info:		
<sip:any proper<="" th=""><th>URI>; index=1,</th><th></th></sip:any>	URI>; index=1,	
<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>		
, , ,	•	
SIP NNI	MGCF	SIP-I
INVITE	→	→ INVITE (IAM)
100 Trying	←	, ,
1.55,9	-	outine
	Escaped Privacy heade Ensure that on receipt with encapsulated IAM Redirection information Redirection information History-Info header field request as indicated in IAM: Redirection information Redirecting in INVITE: History-Info: <sip:any (iam):="" <sip:any="" history-instory-i<="" invite="" proper="" th=""><th>IMS-SS/CDIV/ PICS 6.3.1/2 AND PICS 6.3.2/5 Escaped Privacy header is mapped into Redirection Ensure that on receipt of an INVITE request contains with encapsulated IAM is sent and a Redirecting nur Redirection information parameter is present. The R Redirection information is mapped from the escaped History-Info header field entry and last History-Info header f</th></sip:any>	IMS-SS/CDIV/ PICS 6.3.1/2 AND PICS 6.3.2/5 Escaped Privacy header is mapped into Redirection Ensure that on receipt of an INVITE request contains with encapsulated IAM is sent and a Redirecting nur Redirection information parameter is present. The R Redirection information is mapped from the escaped History-Info header field entry and last History-Info header f

TP number	TP_403_046	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3,
			table, 7.5.4.3.3
TSS reference	IMS-SS/CDIV/	•	•
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/5	
Test Purpose name	Privacy header is map	ped into Redirection informati	on Redirecting 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		
	as indicated in table 6.		header in the received INVITE request
ISUP Parameter values	IAM: Redirection info		
130F Farameter values		indicator= RDIND_value	
SIP Parameter values	INVITE:		
	Privacy: PRIV_valu	ie	
	History-Info:		
	<sip:any proper="" uri="">; index=1,</sip:any>		
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>		
	<sip:any proper="" uri;cause="any">; index=1.1.1</sip:any>		
	INVITE (IAM): History-		
Comments	· · · · · · · · · · · · · · · · · · ·	•	
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→	→ INVITE (IAM)
	100 Trying	←	, ,
		Apply post test ro	outine

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

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

TP number	TP 403 047	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3,
			table, 7.5.4.3.3
TSS reference	IMS-SS/CDIV/		1,200
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.	2/5	
Test Purpose name	'cause' parameter is mapped	into Redirection information R	edirecting 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		
ISUP Parameter values	table 6.3.3-19 IAM: Redirection information	un.	
130r rarameter values		n reason=unknown/not availab	ام
	Redirecting reaso		16
SIP Parameter values	INVITE:		
	History-Info:		
	<pre><sip:any proper="" uri="">; index=1,</sip:any></pre>		
	<pre><sip:any proper="" uri;cause="any">; index=1.1,</sip:any></pre>		
	<pre><sip:any cause="Cause_value" proper="" uri;="">; index=1.1.1</sip:any></pre>		
	INVITE (IAM): History-Info n		
Comments		•	
Message flows	SIP NNI	MGCF	SIP-I
_	INVITE	→ →	INVITE (IAM)
	100 Trying	←	,
		Apply post test routine	
<u> </u>		poor toot toutino	

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

	Cause_value Last hi-targeted-to-uri	REAS_value
VA_01	404	Unknown/not available
VA_02	302	Unconditional
VA_03	486	User busy
VA_04	408	No reply
VA_05	480	Deflection immediate response
VA_06	487	Deflection during alerting
VA_07	503	Mobile subscriber not reachable

TP number	TP_403_048	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3,
			table, 7.5.4.3.3
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5	
Test Purpose name	Hi-index is mapped into Redire	ection information Redirection of	ounter
Test Purpose ISUP Parameter values	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 Redirection counter of the Redirection information is mapped from the hi-index of the last History-Info header field entry in the received INVITE request as indicated in table 6.3.3-20. The number of dots in the hi-index value is equal to the value of the Redirection counter IAM: Redirection information		
	Redirection counter	=RDCONT_value	
SIP Parameter values	INVITE: History-Info: ENTRY_val INVITE (IAM): History-Info no		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -	→	INVITE (IAM)
	100 Trying €	-	
		Apply post test routine	

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

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

TP number	TP_403_049	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3,
			table, 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	5	
Test Purpose name	First History-Info header field e	ntry is mapped into Original ca	alled number Nature of
	address indicator		
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE		
	with encapsulated IAM is sent		
	Redirection information parame		
	Original called is mapped from		eld entry in the format
IOUR R	+'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	0 ,
	Noture of address in	(Recommendation E.	164 [I.1])
SIP Parameter values	INVITE:	dicator=NoA_value	
SIF Farailleter values	History-Info:		
	<pre><sip:first entry="" uri="">; index=1,</sip:first></pre>		
	<pre><sip:nist <sip:any="" entry="" index="1," one,="" proper="" uri;cause="any">; index=1.1</sip:nist></pre>		
	INVITE (IAM): History-Info not		
Comments	, , , , , , , , , , , , , , , , , , , ,		
Message flows	SIP NNI	MGCF	SIP-I
INVITE → INVITE (IAM)			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

	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 MGCE is located	

TP number	TP 403 050	Reference	[1], clause 7.2.1	
TT Hamber	11 _400_000	Reference	[2], clauses 7.5.4.3,	
TCC reference	IMO CO/ODIV/	table, 7.5.4.3.4		
TSS reference	IMS-SS/CDIV/	2 2 2 /2		
Selection criteria	PICS 6.3.1/2 AND PICS			
Test Purpose name		r field entry is mapped into O		
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 signal of the Original called number is mapped from the first History-Info header field entry in the format +'CC+NDC+SN' as indicated in table 6.3.3-22			
ISUP Parameter values	IAM: Original called	04.04 11 145.0 0.0.0 22		
loor rarameter values	_	Plan Indicator= <i>ISDN (Telepho</i>	ny) numbering plan	
	Numbering i		• .	
	(Recommendation E.164 [i.1]) Address signal derived from the first Hist-entry			
SIP Parameter values		iai derived irom the ilist riist-	эниу	
oir Farameter values	INVITE: History-Info: <sip:first entry="" uri="">; index=1, <sip:any proper="" uri;cause="any">; index=1.1 INVITE (IAM): History-Info not present</sip:any></sip:first>			
Comments				
Message flows	SIP NNI MGCF SIP-I			
	INVITE	→	→ INVITE (IAM)	
	100 Trying	-		
	Apply post test routine			

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

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

TP number	TP 403 051	Reference	[1], clause 7.2.1
	11 _ 100_00 1		[2], clauses 7.5.4.3,
			table, 7.5.4.3.4
TSS reference	IMS-SS/CDIV/		14010, 7.0.4.0.4
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5	
Test Purpose name	First History-Info header field		is manned into Original called
Test i dipose name	number Address presentation		is mapped into Original called
Test Purpose	Ensure that on receipt of an INVITE request containing a History-Info header, an INVITE		
-		and a Redirecting number an	
	Redirection information param		
	indicator of the Original called	d number is mapped from the	escaped Privacy header of the
	first History-Info header field e		
ISUP Parameter values	IAM: Original called		
	Address presentation restricted indicator= APRI_value		
SIP Parameter values	INVITE:		
	History-Info:		
	<sip:first entry="" th="" uri?p<=""><th>rivacy=PRIV_value>; index=1</th><th>,</th></sip:first>	rivacy=PRIV_value>; index=1	,
	<sip:any proper="" th="" uri;ca<=""><th></th><th></th></sip:any>		
	INVITE (IAM): History-Info no	t present	
Comments			
Message flows	SIP NNI MGCF SIP-I		
	INVITE → INVITE (IAM)		
100 Trying ←			, ,
	Apply post test routine		

TP number	TP_403_052	Reference	[1], clause 7.2.1	
Ti Hamber	11 _400_002	Reference	[2], clauses 7.5.4.3,	
T00 (WAO 00/000V/		table, 7.5.4.3.4	
TSS reference	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/			
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	VITE request containing a His	tory-Info header, an INVITE	
-	with encapsulated IAM is sent			
	Redirection information param			
	indicator of the Original called			
	INVITE request as indicated in		,	
ISUP Parameter values	IAM: Original called	1445.0 0.0.0 20		
loor rarameter values	Address presentation restricted indicator=APRI_value			
SIP Parameter values	INVITE:			
SIF Farailleter values				
	Privacy: PRIV_value			
	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			
	Apply post test routile			

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

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

TP number	TP_403_053	Reference	[1], clause 7.2.1
			[2], clauses 7.5.4.3, table, 7.5.4.3.8
TSS reference	IMS-SS/CDIV/		100.00
Selection criteria	PICS 6.3.1/2 AND PICS 6	6.3.2/5	
Test Purpose name	Mapping of a 183 Session Progress with encapsulated ACM Redirection number into 181 (Being forwarded) History-Info header		
Test Purpose	Ensure that on receipt of 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 Redirection number is mapped into the hi-targeted-to-uri in a History-Info header		
containing one hi-entry in the sent 181 as indicated in table 6.3.3-24 ISUP Parameter values ACM: Backward call indicator Called party statue='no indication'			i iii table 0.3.3°24
	Generic notificatio Call diversion info Redirection numbe Nature of addr Address signal	rmation er ess indicator= NOA_value	
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=any>; index=1 183 (ACM): History-Info not present		
Comments			
Message flows	SIP NNI INVITE 181 Being forwarded	MGCF → ←	SIP-I → INVITE (IAM) ← 183 Session Progress (ACM - no indication)
Apply post test routine			outine

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

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

TP number	TP_403_054	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,
			table, 7.5.4.3.8
TSS reference	IMS-SS/CDIV/	1	100.00
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/5	
Test Purpose name	Mapping of a 183 Session Pro (Being forwarded) History-Info		Redirecting reason into 181
Test Purpose	Ensure that on receipt of 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 Call 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	ACM: Backward call indicator Called party statue='no indication' Generic notification=call is diverting Redirection number Call diversion information Redirecting reason =REAS value		
SIP Parameter values	181: History-Info: sip: LAST_HIST_URI;cause=CAUSE _value>; index=1 183 (ACM): History-Info not present		
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE -		INVITE (IAM)
			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	Refe	rence	[1], clause 7.2.1		
				[2], clauses 7.5.4.3,		
				table, 7.5.4.3.8		
TSS reference	IMS-SS/CDIV/	<u>'</u>		10000 0, 0 0 0		
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 Notification subscription options no 181 (Being forwarded) is sent					
Test Purpose	Ensure that on receipt of a 183 Session Progress with encapsulated ACM a Redirection number and the Call diversion parameter is present as an indication a call diversion occurred, if the Call diversion information Notification subscription options is set to presentation not allowed no provisional response is sent					
SUP Parameter values	ACM:					
	Generic notification=call is diverting					
	Redirection number					
	Call diversion information					
	Notification subscription options=presentation not allowed					
SIP Parameter values						
Comments						
Message flows	SIP NNI		MGCF	SIP-I		
	INVITE	→		→ INVITE (IAM)		
				← 183 Session Progress		
				(ACM - no indication)		
	Apply post test routine					

TP number	TP_403_056	Reference	[1], clause 7.2.1			
			[2], clauses 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 Progress with encapsulated ACM Notification subscription options into 181 (Being forwarded) escaped Privacy header					
Test Purpose	Ensure that on receipt of an a 183 Session Progress with encapsulated ACM a Redirect					
_	number and the Call diversion parameter is present as an indication a call diversion					
	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 INVITE containing an encapsulated ANM message is received, a 200 OK INVITE is sent and a History-Info header is present, an escaped Privacy header is present the value is set					
	as indicated in table 6.3.3-26					
ISUP Parameter values	ACM:					
	Generic notification=call is diverting					
	Redirection number Call diversion information					
		bscription options=NS	O_value			
SIP Parameter values	181:					
	History-Info: sip: LAST_HIST_URI;cause=any?Privacy=history>; index=1 181 (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 - no indication)			
	180 Ringing	←	 180 Ringing (CPG – Alerting) 			
	200 OK	←	← 200 OK (ANM)			
	ACK	→	→ ACK			
		Apply post te	est 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], clauses 7.5.4.3,		
			table, 7.5.4.3.9		
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 Pro	gress with encapsulated CPG	Redirection number into 181		
	(Being forwarded) History-Info				
Test Purpose	Ensure that on receipt of a 183				
	indicator is set to 'Progress' a				
	present as an indication a call				
	Redirection number is mapped		History-Info header in the		
	sent 181 as indicated in table (5.3.3-24			
ISUP Parameter values	CPG: Event=Progress				
		Generic notification=call is diverting			
	Call diversion information				
	Redirection number				
		ndicator=NOA_value			
	Address signal Digi	ts			
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 p	resent			
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	
ir number	17_403_038	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,	
			table, 7.5.4.3.9	
TSS reference	IMS-SS/CDIV/		table, 7.5.4.5.9	
Selection criteria		2.0/5		
	PICS 6.3.1/2 AND PICS 6		LODO De dine atia a necessario te 404	
Test Purpose name			d CPG Redirecting reason into 181	
		Info header cause paramete		
Test Purpose			encapsulated CPG the Event	
			the Call diversion parameter is	
			31 (Being forwarded) is sent. The Call	
			to the cause parameter of the hi-	
		Into header in the sent 181	as indicated in table 6.3.3-25	
ISUP Parameter values		CPG: Event=Progress		
	Generic notification			
	Redirection number			
		Call diversion information		
	Redirecting reason =REAS_value			
SIP Parameter values	181:			
	History-Info:			
			cause=CAUSE _value>; index=1	
	181 (CPG): History-Info ne	ot present		
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 rou	· · · · · · · · · · · · · · · · · · ·	

TP number	TP_403_059	Reference	[1], clause 7.2.1	
			[2], clauses 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 Progoption presentation not allowed			
Test Purpose	Ensure that on receipt of a 181 Being forwarded 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, if the Call diversion information Notification subscription options is set to presentation not allowed no 181 (Being forwarded) is sent			
ISUP Parameter values	CPG: Event=Progress Generic notification=call is diverting Redirection number Call diversion information Notification subscription options=presentation not allowed			
SIP Parameter values				
Comments				
Message flows	SIP NNI INVITE → 180 Ringing ←	+	SIP-I INVITE (IAM) 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], clauses 7.5.4.3,		
			table, 7.5.4.3.9		
TSS reference	IMS-SS/CDIV/	IMS-SS/CDIV/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	/5			
Test Purpose name	Mapping of a 183 Session Pro				
Took Durmage	options into 181 (Being forwar				
Test Purpose	Ensure that on receipt of a 18 indicator is set to 'Progress' a				
			(Being forwarded) is sent. The		
			cory-Info header in the sent 181 is		
	set to 'history'. When a 200 Ol				
	received, a 200 OK INVITE is				
	Privacy header is present the				
ISUP Parameter values	CPG: Event=Progress	value le cet de litaleatea lit	14010 0.0.0 20		
	Generic notification=ca	ll is divertina			
	Redirection number	15 a.1 51 1g			
	Call diversion informati	on			
	Notification subscription options=NSO_value				
SIP Parameter values	181:				
	History-Info: <sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any>				
	181 (CPG): 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)		
	180 Ringing ←	←	180 Ringing (ACM)		
	181 Being forwarded ←	←	183 Session Progress		
			(CPG - call is diverting)		
	180 Ringing ←	←	180 Ringing (CPG – Alerting)		
	200 OK ←	←	200 OK (ANM)		
	ACK →	→	ACK		
		Apply post test routin	е		

TP number	TP_403_061	Reference	[1], clause 7.2.1 [2], clauses 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				
Test Purpose name	Mapping of a 180 Ringing with (Ringing) History-Info header	encapsulated CPG Alerting R JRI parameter	edirection number into 180		
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 informati Redirection number CPG: Event indicator=Alerting Call diversion informati Redirection number Nature of address in Address signal Digi	g on ndicator= NOA_value			
SIP Parameter values	180: History-Info: <sip:derived cpg;cause="Cause_value" from="" in="" number="" redirection="">; index=1 180 (ACM): History-Info not present</sip:derived>				
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 routine			

TP number	TP_403_061A	Reference	[1], clause 7.2.1		
Ti Hamber	11 _403_001A	Reference	[2], clauses 7.5.4.3,		
			table, 7.5.4.3.10		
TSS reference	IMS-SS/CDIV/	L.	14010, 7.0.4.0.10		
Selection criteria	PICS 6.3.1/2 AND PICS 6.	3 2/5			
Test Purpose name			Redirection number into 180 (Ring	nina)	
rest i dipose name	History-Info header Redire			9" '9)	
Test Purpose			sulated CPG the Event indicator	is set	
reat ruipeae			(Ringing) is sent. The cause para		
ISUP Parameter values		value is mapped from the received Redirecting reason as indicated in table 6.3.3-25. ACM: Call diversion information			
	Redirection number	r			
	CPG: Event indicator=Ale	CPG: Event indicator=Alerting			
	Redirection number				
	Call diversion information				
	Redirecting reas	son = REAS_value			
SIP Parameter values	180:				
	History-Info:				
	<sip:any _value="" proper="" uri;cause="CAUSE">; index=1</sip:any>				
	180 (ACM): History-Info no	ot present			
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	j)	
		Apply post test re	outine		

TP number	TP_403_061B	Reference	[1], clause 7.2.1		
			[2], clauses 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			Notification subscription option the 180		
-	(Ringing) containing a Hi	(Ringing) containing a History-Info header is sent			
Test Purpose	Ensure that on receipt of a180 Ringing with encapsulated CPG the Event indicator is set to 'Alerting' a Redirection number is present, a 180 (Ringing) is sent. The Privacy value is set to 'history'. When a 200 OK INVITE containing an encapsulated 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 info	ACM: Call diversion information Redirection number			
	CPG: Event indicator=Alerting				
	Redirection numb				
	Call diversion info	ormation obscription options= NSO _	value		
SIP Parameter values	180:				
	History-Info: <sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any>				
	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	←	← 180 Ringing (CPG - call is diverting)		
	200 OK	←	€ 200 OK (ANM)		
	ACK	÷	→ ACK		
	Apply post test routine				

TD	TD 400 0040	D-f	[4] 704			
TP number	TP_403_061C	Reference	[1], clause 7.2.1			
			[2], clauses 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					
Test Purpose name	Mapping of a 180 Ringing v	Mapping of a 180 Ringing with an encapsulated CPG Alerting without Call Diversion				
	Information parameters the 180 (Ringing) containing a History-Info header is sent, cause					
	parameter	parameter				
Test Purpose	Ensure that on receipt of a	180 Ringing with encaps	sulated CPG the Event indicator is set			
-	to 'Alerting' no Call diversion	n Information parameter	s are present, a 180 (Ringing) is sent.			
	The cause parameter value	is derived from the Red	lirection reason indicator of a previous			
	received Call diversion info					
ISUP Parameter values	ACM: Redirection number	•				
	Call diversion information					
	Call diversion inform	ation				
		Redirecting reason= REAS_value				
	Redirection number	on-nerto_valuo				
	Redirection number					
	CPG: Event indicator=Aler	ting				
SIP Parameter values	181:					
	History-Info:					
	<sip:any proper="" th="" uri<=""><th colspan="5"><sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any></th></sip:any>	<sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any>				
	180 (ACM): History-Info not present					
	180:					
	History-Info:					
	,	l:cause=CAUSE value	?Privacy=history>; index=1			
Comments	, регорог		, ,			
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE	→	→ INVITE (IAM)			
	181 Being forwarded	-	← 183 Session Progress			
	To T Deling for warded	•	(ACM)			
	180 Ringing	←	← 180 Ringing			
	100 Kinging	•				
	(CPG - Alerting)					
		Apply post test r	outine			

TP number	TP_403_061D	Reference	[1], clause 7.2.1 [2], clauses 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	6.3.2/5				
Test Purpose name			PG Alerting without Call Diversion			
-	Information parameters the 180 (Ringing) containing a History-Info header is sent,					
	Privacy value	, ,				
Test Purpose			osulated CPG the Event indicator is set			
			ers are present, a 180 (Ringing) is sent.			
			a 200 OK INVITE with an encapsulated			
			E is sent and a History-Info header is			
			ndicated in table 6.3.3-26.			
ISUP Parameter values	ACM: Call diversion information					
	Redirection number	- ·				
		Call diversion information				
	Notification sub	oscription options= NSO _	value			
	CPG: Event indicator=Al	erting				
SIP Parameter values	181:	<u> </u>				
	History-Info:					
	<sip:any proper="" th="" ul<=""><th colspan="5"><sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any></th></sip:any>	<sip:any proper="" uri;cause="any?Privacy=history">; index=1</sip:any>				
	180 (ACM): History-Info not present					
		LAST HIST URI:cause	=any?Privacy= PRIV_value >; index=1			
Comments			any masy i magnitudes ; mask i			
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			
	1.5.	Apply post test	- 7.0.1			

TP number	TP 403 061E	Reference	[1], clause 7.2.1	
	100_00.2		[2], clauses 7.5.4.3,	
			table, 7.5.4.3.10	
TSS reference	IMS-SS/CDIV/		, table, i to the te	
Selection criteria	PICS 6.3.1/2 AND PICS 6	6.3.2/5		
Test Purpose name	Mapping of a 180 Ringing	with an encapsulated C	PG Alerting without Call Diversion	
	Information parameters	the 180 (Ringing) a Histo	ory-Info header is not present	
Test Purpose	183 Session Progress wit	th encapsulated ACM Ca	Il diversion Information parameters are	
			to 'presentation not allowed'. Ensure that	
			G the Event indicator is set to 'Alerting'	
			ent, a 180 (Ringing) is sent. A History-	
	Info header is not present			
ISUP Parameter values	ACM: Redirection number			
	Call diversion information			
	Notification subscription options=presentation not allowed			
	CPG: Event indicator=Alerting			
SIP Parameter values	180:			
	History-Info header no	ot present		
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE	→	→ INVITE (IAM)	
			← 183 Session Progress (ACM)	
	180 Ringing	(← 180 Ringing (CPG - Alerting)	
	Apply post test routine			

TD mumb on	TD 400 000	Deference	[41 -1 7.0.4		
TP number	TP_403_062	Reference	[1], clause 7.2.1		
			[2], clauses 7.5.4.3,		
			table, 7.5.4.3.7		
TSS reference	IMS-SS/CDIV/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/5				
Test Purpose name	Mapping of a 181 Being forwarded		ng Redirection Number		
	Restriction into 180 (Ringing) Priva				
Test Purpose	Ensure that on receipt of a 181 Be				
	set to 'Alerting' a Redirection Numl				
	The Redirection Number Restriction	n parameter value is mapped	into the Privacy header in the		
	sent 180 as indicated in table 6.3.3	3-27			
ISUP Parameter	ACM: Backward call indicator				
values	Called party status=no i	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 Restric	tion=PRES_restr			
SIP Parameter values	180:				
	History-Info:				
	<pre><sip:any proper="" uri;cause="any?Privacy=PRIV" value="">; index=1</sip:any></pre>				
	-1 - 71 - 1				
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	INVITE →	→	INVITE (IAM)		
	181 Being forwarded ←	←	183 Session Progress		
		-	(ACM)		
	180 Ringing ←	←	180 Ringing		
	Too ranging	•	(CPG - Alerting)		
	Apply post test routine				
	1	pp., poor toot routillo			

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	'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

TP number	TP_403_064	Reference	[1], clause 7.2.1 [2], clauses 7.5.4.3,	
			table, 7.5.4.3.7	
TSS reference	IMS-SS/CDIV/	•	•	
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	3.2/5		
Test Purpose name	Mapping of 200 OK INVITE 200 OK INVITE Privacy hea		direction Number Restriction into	
Test Purpose			ulated ANM a Redirection Number	
			liversion occurred, a 200 OK ameter value is mapped into the	
		200 OK INVITE as indicated i		
ISUP Parameter values	ACM: Generic notification=		111 (4510 0.0.0 21	
	Call diversion inform	9		
	Notification subs	cription options=NSO_value		
	Redirection number			
	ANM:			
		Restriction=PRES_restr		
SIP Parameter values	200 OK INVITE:			
	History-Info: <sip:any proper="" uri;cause="any?Privacy=<b">PRIV_value>; index=1</sip:any>			
Comments	200 (ANM): History-Info no	t present		
Message flows	SIP NNI	MGCF	SIP-I	
Wessage Hows	INVITE	₩GCF	→ 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 routing	ne	

6.3.4 Conference call (CONF)

TP number	TP 404 001	Reference	[1], clause 7.2.1		
			[2], clause 7.5.6.2		
TSS reference	PSTN-SS/CONF/	,	1, 3,		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3	.2/20 AND PICS 6.3.9/1			
Test Purpose name	'isfocus' parameter and con is sent	ference URI in Contact header	in ACK received, a SUBSCRIBE		
Test Purpose	Ensure that on receipt of an INVITE request and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent after the ACK was received. The Request URI contains the value received in the Contact header in the ACK, the To header is set to the value sent in the 180 Ringing, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the 180 Ringing or the 200 OK INVITE the Privacy header is sent as in the 180 Ringing or 200 OK INVITE				
ISUP Parameter values		•	-		
SIP Parameter values	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>				
Comments					
Message flows	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK SUBSCRIBE 202 Accepted	MGCF ← ← ← Apply post test routing	180 Ringing (ACM)		
		Apply post test routine			

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 6.3.2/			
Test Purpose name	'isfocus' parameter and confer SUBSCRIBE is sent	ence URI in Contact head	er in 200 OK received, a	
Test Purpose	Ensure that on receipt of a 200 OK INVITE successful final response and a Contact header field is present containing the conference URI and the 'isfocus' parameter, a SUBSCRIBE request is sent. The Request URI contains the value received in the Contact header in the 200 OK, the From header is set to the value sent in the initial INVITE request, the P-Asserted-Identity is set to the value of the P-Asserted-Identity sent in the initial INVITE request the Privacy header is sent as in the initial INVITE			
ISUP Parameter values				
SIP Parameter values	200: Contact: <conference uri="">; isfocus SUBSCRIBE: From: <uri equal="" in="" invite="" the="" to="" value=""> P-Asserted-Identity: < URI equal to the value in the INVITE></uri></conference>			
Comments				
Message flows	SIP-I INVITE (IAM) 100 Trying 180 Ringing (ACM) 200 OK (INVITE) (ANM) ACK	← ← →	SIP NNI INVITE 100 Trying 180 Ringing 200 OK (INVITE) ACK SUBSCRIBE 202 Accepted	
		Apply post test routing	•	

TP number	TP_404_003	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/	20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of notification of 'C	Conference established' at the	I-MGCF			
Test Purpose	Ensure that on receipt of an ini	Ensure that on receipt of an initial INVITE request and the Contact header contains the				
	isfocus parameter, a SUBCRI					
	request as a response to the S					
			an ISUP CPG message is set			
	and the Generic notification pa	rameter is set to 'Conference	established'			
ISUP Parameter values	CPG: Generic notification					
	Conference establis					
SIP Parameter values	INVITE: Contact: <conference< th=""><th></th><th></th></conference<>					
	NOTIFY: Subscription-State:	active				
	Event: conference					
	<pre>content-Type: appli </pre>	cation/conference-info+xml				
	conference-info					
	conference-state active>true<					
Comments	donvoznack					
Message flows	SIP NNI	MGCF	SIP-I			
	INVITE -	→	INVITE (IAM)			
	100 Trying ←	+	100 Trying			
	180 Ringing ←	+	180 Ringing (ACM)			
			3 3 ()			
	200 OK (INVITE) ←	+	200 OK (INVITE) (ANM)			
	ACK -	→	ACK			
, tot						
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/		16 37	
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			ter a session was established and the	
			er, a SUBCRIBE request is sent. Ensure that	
			to the SUBSCRIBE request and a XML	
			' sub element of the 'conference-state'	
			ted ISUP CPG message is set and the rence established. The INVITE request	
			the originally session by sending a BYE	
	request	ricador to terrilinate t	the originally session by serialing a bit	
ISUP Parameter values	CPG: Generic notification	າ		
	Conference est			
SIP Parameter values	INVITE 1: CallID: xxx			
	INVITE 2: CallID: yyy			
		erence URI>; isfocus		
		to-tag=<>;from-tag=	<>	
	NOTIFY: Subscription-St			
	Event: conference			
	Content-Type: application/conference-info+xml xml version="1.0"</th			
	conference-info			
	conference-state			
	active>true<			
	BYE: CallID: xxx			
Comments			dialogue is originated by the conference	
Managara flavo	focus. The originally dialog	gue nave to terminate MGCF	ed. SIP NNI	
Message flows	*** *	→	→ INVITE 1	
	INVITE (IAM) 100 Trying		← 100 Trying	
	180 Ringing (ACM)	÷	← 180 Ringing	
	100 Kinging (700ki)	•	Too ranging	
	200 OK (INVITE) (ANM)	←	← 200 OK (INVITE)	
	ACK	→	→ ACK	
			-	
			← INVITE 2	
			→ 200 OK (INVITE)	
			← ACK	
			→ SUBSCRIBE	
			← 202 Accepted	
			·	
	INFO (CPG)	←	← NOTIFY	
	200 OK INFO	→	→ 200 OK (NOTIFY)	
			← BYE	
			→ 200 OK (BYE)	
		Apply post to		

TP number	TP_404_005	Reference	[1], clause 7.2.1	
T00 (DOTAL CO/CONE/		[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	Interworking of notification of 'o	ther party added' at the I-MGC	CF	
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
	at the I-MGCF. Ensure that on			
	'endpoint' element does not cor			
	'status' sub element of the 'end			
	encapsulated ISUP CPG mess	age is sent the Generic notific	ation 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			
	Content-Type: application/conference-info+xml xml version="1.0"</th			
	conference-info			
	users			
	user			
	endpoint of	entity=" <not isup="" of="" uri="">"</not>		
	status>connected<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Session is	established and joined in a d	conference	
	NOTIFY →	→	INFO (CPG)	
	200 OK (NOTIFY) ←	←	200 OK (INFO)	
	,	Apply post test routine	, ,	

TP number	TP_404_006	Refere	nce	[1], clause 7.3.1	
				[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF	:/			
Selection criteria	PICS 6.3.1/2 AN	D PICS 6.3.2/20 AND	PICS 6.3.9/1		
Test Purpose name	Interworking of n	otification of 'other par	ty added' at the	O-MGCF	
Test Purpose	at the O-MGCF. 'endpoint' element 'status' sub elem	An established conference is already indicated by receipt of an adequate NOTIFY request at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element does not contain the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to connected , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'other			
ISUP Parameter values	CPG: Generic n	CPG: Generic notification other party added			
SIP Parameter values	Event Conte xml<br confer	SIP-I address> cription-State: active : conference :nt-Type: application/coll version="1.0" rence-info ers user endpoint entity=" status>connective	cnot URI of ISUF		
Comments					
Message flows	SIP-I	===	GCF	SIP NNI	
		Session is established and joined in a conference			
	INFO (CPG)	(←	NOTIFY	
	200 OK INFO	→	→	200 OK (NOTIFY)	
		Apply	post test rout	ine	

TP number	TP_404_007	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 'is	solated' at the I-MGCF			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request				
		at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the			
		'endpoint' element contains the ISUP address as received in the To header and the 'status'			
	sub element of the 'endpoint' el				
	CPG message is sent the Gene	eric notification indicator is set	t to ' isolated '		
ISUP Parameter values	CPG: Generic notification				
	Isolated				
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>				
	Subscription-State:	active			
	Event: conference	anting/professors inforced			
	<pre><?xml version="1.0"</pre></pre>	cation/conference-info+xml			
	conference-info				
	users				
	users user endpoint entity=" <uri of="" sip-i="">"</uri>				
	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 →	NOTIFY → INFO (CPG)			
	200 OK (NOTIFY) ← 200 OK INFO				
	INVITE(sendonly) →	→	INVITE (sendonly)		
	200 OK (INVITE)	←	200 OK (INVITE)		
	ACK →	→	ACK		
		Apply post test routine			

TP number	TP_404_008	Reference		[1], clause 7.3.1	
TSS reference	PSTN-SS/CONF/			[2], clause 7.5.6.3	
		C 2 2/20 AND DICC C 2	2/4		
Selection criteria		6.3.2/20 AND PICS 6.3.			
Test Purpose name		on of 'isolated' at the O-N			
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY reques at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the				
				I in the To header and the 'status'	
		e Generic notification inc		n INFO with encapsulated ISUP	
ISUP Parameter values	CPG: Generic notification		icator is	set to isolated	
150P Parameter values	Isolated	on			
SIP Parameter values	NOTIFY: To: <sip-i ad<="" th=""><th>dragas</th><th></th><th></th></sip-i>	dragas			
Sir raidilletei values	Subscription-				
	Event: confer				
		: application/conference-	info±xml		
	xml version</th <th></th> <th>IIIIO I XIIII</th> <th></th>		IIIIO I XIIII		
	conference-in				
	users				
	user				
	endpoint entity=" <uri of="" sip-i="">"</uri>				
		status>on-hold<			
Comments					
Message flows	SIP-I	MGCF		SIP NNI	
		ion is established and j	oined in	a conference	
	CASE A				
	INFO (CPG)	←	-	NOTIFY	
	200 OK (INFO)	→	→ 2	200 OK (NOTIFY)	
	CASE B	CASE B			
	INFO (CPG)	←	← 1	NOTIFY	
	200 OK INFO → 200 OK (NOTIFY)				
	INVITE(sendonly)	←	←	NVITE(sendonly)	
	200 OK (INVITE)	→		200 OK (INVITE)	
	ACK	←		ACK	
		Apply post tes	t routine	•	

TP number	TP_404_009	Reference	[1], clause 7.2.1	
	20711 00/0017/		[2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2			
Test Purpose name	Interworking of notification of 'o	ther party isolated at the I-MG	GCF	
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request			
	at the I-MGCF. Ensure that on			
	'endpoint' element does not cor			
	'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			
	Content-Type: application/conference-info+xml xml version="1.0" conference-info users</th			
	user			
	·	entity=" <not isup="" of="" uri="">"</not>		
	status>on-hold<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Session is	established and joined in a d	conference	
	NOTIFY →	→	INFO (CPG)	
	200 OK (NOTIFY) ←	←	200 OK INFO	
	,	Apply 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 6.3.2/2	20 AND PICS 6.3.9/1			
Test Purpose name	Interworking of notification of 'c	ther party isolated' at the C	D-MGCF		
Test Purpose	An established conference is already indicated by receipt of an adequate NOTIFY request				
		at the O-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the			
	'endpoint' element does not contain the ISUP address as received in the To header and the				
			hold, an INFO with encapsulated		
	ISUP CPG message is sent the	e Generic notification indica	ator is set to 'other party		
IOUD Deservation and the	isolated'				
ISUP Parameter values	CPG: Generic notification				
CID Deservator values	other party isolated				
SIP Parameter values	NOTIFY: To: <sip-i address=""></sip-i>				
	Subscription-State:	active			
		nation/conforcings inforced			
	xml version="1.0"</th <th>cation/conference-info+xml</th> <th></th>	cation/conference-info+xml			
	conference-info				
	users				
	user				
	*****	entity=" <not isup="" of="" uri="">"</not>			
	·	>on-hold<			
Comments					
Message flows	SIP NNI	MGCF	SIP-I		
	Session is established and joined in a conference				
	INFO (CPG) ←	← 1	NOTIFY		
	200 OK INFO → 200 OK (NOTIFY)				
		Apply post test routine)		

TP number	TP_404_011	Reference	[1], clause 7.2.1		
TCC reference	DOTAL CO/CONE/		[2], clause 7.5.6.3		
TSS reference	PSTN-SS/CONF/	C C O O/OO AND DICC	C C 2 0/4		
Selection criteria	PICS 6.3.1/2 AND PIC				
Test Purpose name	Interworking of notificat				
Test Purpose	and isolated at the I-Mo attribute of the 'endpoir and the 'status' sub ele encapsulated ISUP CP 'reattached'	An established conference is already indicated by receipt of an adequate NOTIFY request and isolated at the I-MGCF. Ensure that on receipt of a NOTIFY request and the 'entity' attribute of the 'endpoint' element contains the ISUP address as received in the To header and the 'status' sub element of the 'endpoint' element is set to connected , an INFO with encapsulated ISUP CPG message is sent the Generic notification indicator is set to 'reattached'			
ISUP Parameter values	CPG: Generic notifica reattached	tion			
SIP Parameter values Comments	Event: confector Content-Type xml version conference-users user</th <th>n-State: active erence be: application/confer on="1.0"</th> <th>l of SIP-l>"</th>	n-State: active erence be: application/confer on="1.0"	l of SIP-l>"		
	SIP NNI	84	GCF SIP-I		
Message flows		===	ed in a conference and isolated		
	CASE A	is established John	ed ili a comerence and isolated		
	NOTIFY	→	→ INFO (CPG)		
	200 OK (NOTIFY)		→ INFO (CPG)← 200 OK (INFO)		
	CASE B				
	NOTIFY → INFO (CPG) 200 OK (NOTIFY) ← 200 OK (INFO)				
	INVITE(sendrecv) 200 OK (INVITE) ACK	→ ← → Apply pos	→ INVITE(sendrecv) ← 200 OK (INVITE) → ACK st test 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 '				
Test Purpose		An established conference is already indicated by receipt of an adequate NOTIFY request			
			NOTIFY request and the 'entity'		
			dress 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				
ICUID Deservation and least	'reattached'				
ISUP Parameter values	CPG: Generic notification				
SIP Parameter values	Reattached NOTIFY: To: <sip-i address:<="" th=""><th></th><th></th></sip-i>				
SIF Farailleter values	Subscription-State:				
	Event: conference	active			
		ication/conference-info+x	ml		
	xml version="1.0</th <th></th> <th></th>				
	conference-info				
	users				
	user				
	endpoint entity=" <uri of="" sip-i="">"</uri>				
	statu	s>connected<			
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
		ablished joined in a con	ference and isolated		
	CASE A				
	INFO (CPG) ←	←	NOTIFY		
	200 OK (INFO) →	→	200 OK (NOTIFY)		
	CASE B	CASE B			
	INFO (CPG) ←				
	200 OK (INFO) → 200 OK (NOTIFY)				
	INVITE(sendrecv) ←	+	INVITE(sendrecv)		
	200 OK (INVITE) →	→	200 OK (INVITE)		
	ACK	-	ACK		
		Apply post test routi			

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 6.3.2/20 AND PICS 6.3.9/1			
Test Purpose name	Interworking of notification of 'other party reattached' at the I-MGCF			
Test Purpose	An established conference is a	Iready indicated by receipt of a	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 'e			
	received in the To header and t			
	connected, an INFO with enca		e 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="" uri="">"</not>		
	status>connected<			
Comments				
Message flows	SIP NNI	MGCF	SIP-I	
	Session is established joined in a conference and another party was isolated			
	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 6.3.2/20 AND PICS 6.3.9/1				
Test Purpose name	Interworking of notification of 'o	Interworking of notification of 'other party reattached' at the O-MGCF			
Test Purpose	An established conference is a	lready indicated by receipt o	of an adequate NOTIFY request		
		and another party is isolated at the O-MGCF. Ensure that on receipt of a NOTIFY request			
	and the 'entity' attribute of the 'e				
	received in the To header and				
	connected, an INFO with enca		ge 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="" uri="">"</not>			
Comments	status>connected<				
Message flows	SIP NNI MGCF SIP-I				
Wessage nows	Session is established joined in a conference and another party was isolated				
	11101111				
	200 OK (INFO) → 200 OK (NOTIFY)				
		Apply post test routine			

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 6.3.2/2	20 AND PICS 6.3.9/1		
Test Purpose name	Interworking of notification of 'o			
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	<pre><?xml version="1.0" conference-info users user endpoint of status joining or</pre></pre>	active cation/conference-info+xml		
Comments				
Message flows	SIP NNI MGCF SIP-I			
	Session is established and joined in a conference			
	NOTIFY →		INFO (CPG)	
	200 OK (NOTIFY) ←	=	200 OK (NOTIFY)	
		Apply post test routine		

TP number	TP_404_016	Reference	[1], clause 7.2.1	
I F Hulliber	17_404_010	Kelelelice	[1], clause 7.2.1 [2], clause 7.5.6.3	
TSS reference	PSTN-SS/CONF/	L	[[2], clause 1.3.0.3	
Selection criteria		PICS 6.3.1/2 AND PICS 6.3.2/20 AND PICS 6.3.9/1		
Test Purpose name				
Test Purpose	Interworking of notification of 'other party disconnected' at the O-MGCF 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 no			
	other pa	other party disconnected		
SIP Parameter values	Subscri Event: c Content xml v<br confere use	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>		
Comments	OID NINII	МООБ	OID I	
Message flows	SIP NNI	SIP NNI MGCF SIP-I Session is established and joined in a conference		
	INFO (CPG)	Session is established and j	► NOTIFY	
	` '	→		
	200 OK (INFO) → 200 OK (NOTIFY) Apply post test routine			

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 INFC	request	
Test Purpose	Ensure that on receipt of INFO		
	indicators indicator set to MCIE)_req , an INFO request is sen	t. A XML 'mcid'
	McidRequestIndicator is includ	ed set to XML_McidReq as in	dicated in table 6.3.6-5
ISUP Parameter values	IDR: MCID request indicators	3	
	MCID_req		
SIP Parameter values	INFO:		
	xml version="1.0"</th <th></th> <th></th>		
	mcid		
	request>		
	McidRequestIndicator> XML_McidReq </th		
	HoldingIndicator>1 </th		
	INFO (IDR) no xml body prese	nt	
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

	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 IS	INFO request is mapped into ISUP IRS		
Test Purpose	Ensure that on receipt of an IN			
	MCID_rsp, an INFO with enca		e MCID response indicator is	
	set to MCID_rsp as indicated in			
ISUP Parameter values	IRS: MCID response indicate	or		
	MCID_rsp			
SIP Parameter values	INFO:			
	xml version="1.0"</th <th></th> <th></th>			
	mcid			
	response>			
		ator> XML_McidRsp </th <th></th>		
	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	
	200 OK IIVI O	=	200 OK IIVI O	
	Apply post test routine			

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

	XML_McidRsp	MCID_rsp
VA_01	0	MCID not included
VA_02	1	MCID included

TP number	TP_406_007	Reference	[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 IN	FO request the XML 'mcid' Mo	cidResponseIndicator is set to	
	MCID_rsp, an INFO with enca			
	The XML OrigPartyIdentity is n			
	• If the country code of the OrigPartyldentity 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 thignals of the Calling party num		
			ual to the country code where	
	the SUT is located the Nat	ure of address is set to 'Interr	national number, the '+' is	
			URI and send in the Address	
	signals of the Calling party			
	The XML OrigPartyPresentation			
	Address presentation restrictio	n indicator APRI_value of the	Calling party number as	
ISUP Parameter values	indicated in table 6.3.6-7 IRS: MCID response indicate	\ <u></u>		
150P Parameter values	MCID included)I		
	Calling Party number			
	Address presentation	Address presentation restriction indicator= APRI_value		
	Address signal= <i>derived from the OrigPartyIdentity</i>			
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	nt		
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 6.3.6-7: Mapping of XML OrigPartyPresentationRestriction into ISUP Calling party number APRI

	XML_orig_restr	APRI_value
VA_01	True	Presentation restricted
VA 02	False	Presentation allowed

TP number	TP_406_008	Reference	[1], clause 7.2.1 [2], clause 7.5.9.2.3			
TSS reference	IMS-SS/MCID/		[[2], Gladde 7.0.0.2.0			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/3					
Test Purpose name	XML GenericNumber is mapp		alling Party number			
Test Purpose			dilling i dity ridiniser 1cidResponseIndicator is set to			
reat ranpess	MCID_rsp, an INFO with enco		iolarresponsemaloator is set to			
	The XML GenericNumber is n		ling party:			
			to the country code where the			
			Il (significant) number', the '+'			
			the XML GenericNumber URI			
		signals of the Additional callin				
			qual to the country code where			
		ature of address is set to 'Inte				
			r URI and send in the Address			
	signals of the Additional					
	The XML GenericNumberPres	sentationRestriction value XM	L_gen_restr is mapped into the			
	Address presentation restriction	on indicator APRI_value of the	e Additional calling party			
	number as indicated in table 6					
ISUP Parameter values	IRS: MCID response indica	tor				
	MCID included					
	Generic number					
		Additional calling Party number Address presentation restriction indicator= APRI_value				
		on restriction indicator= APRI _	_value			
	Address signal					
SIP Parameter values	INFO:					
	xml version="1.0"</th <th></th> <th></th>					
	mcid					
	response> McidResponseIndi	cator>1/				
		erived from the Generic num	nhar Addrass signal			
		esentationRestriction>XML_ge				
	INFO (IDR) no xml body prese		::			
Comments	IN O (IDIA) NO ANII DOUY PIESEN					
Message flows	SIP NNI	MGCF	SIP-I			
3	INVITE	→	INVITE (IAM)			
		÷	• •			
		÷ +	, ,			
		` '				
		_				
	INFO -	→	INFO (IRS)			
	200 OK INFO ← 200 OK INFO					
		Apply post test routine				

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

	XML_gen_restr	APRI_value
VA_01	True	Presentation restricted
VA 02	False	Presentation allowed

6.3.7 Closed User Group (CUG)

TP number	TP_407_001	Reference	[1], clause 7.2.1	
			[2], clauses 7.5.10.1,	
			table, 7.5.10.1.1,	
			table, 7.5.10.1.2	
TSS reference	IMS-SS/CUG/			
Selection criteria	PICS 6.3.2/23 AND NOT PICS	6.3.10/2		
Test Purpose name	Mapping of the SIP XML CUG parameter	Element to the ISUP closed u	sergroup interlock code	
Test Purpose	Ensure that on receipt of an IN			
	application/vnd.etsi.cug+xml a			
	sent. The XML 'networkIndicat			
	code Network Identity indicato			
	ISUP Closed user group interl	ock code Binary code indicato	r	
ISUP Parameter values	IAM:			
	Optional forward call in			
	Closed user group			
	Closed user group interlock code			
	Network Identity mapped from XML networkIndicator Binary code mapped from XML cugInterlockBinaryCode			
OID D		ed from XIVIL cuginteriockBina	iryCode	
SIP Parameter values	INVITE:			
	71 11	Content-Type: application/vnd.etsi.cug+xml		
	xml version="1.0"</th <th></th> <th></th>			
	cug			
		icator=any proper value	lua	
		kBinaryCode=any proper va	iue	
		nicationIndicator		
Comments	INVITE(IAM): no xml body pre	sent		
	CID NINII	MCCE	SIP-I	
Message flows	SIP NNI	MGCF →	-	
	=	=	INVITE (IAM)	
	100 Trying			
	Apply post test routine			

TP number	TP_407_002	Reference	[1], clause 7.2.1
			[2], clauses 7.5.10.1,
			table 7.5.10.1.1,
T00	U. 40. 00/01/0/		table, 7.5.10.1.3
TSS reference	IMS-SS/CUG/		
Selection criteria	PICS 6.3.2/23 AND NOT PIC		
Test Purpose name		B Element to the ISUP $\emph{closed}~\iota$	iser group call indicator
	included in the optional Forwa	ard Call Indicator Parameter	
Test Purpose		NVITE request containing the 0	
		and the 'cug' XML body, an IN\	
	sent. The XML 'cugCommunion	cationIndicator' is mapped into	the ISUP Optional forward call
	indicator Closed user group c	all indicator as indicated in tabl	e 6.3.7-1
ISUP Parameter values	IAM:		
	Optional forward call in	ndicator	
	Closed user group	call indicator=CUG_ind	
	Closed user group inte	erlock code	
	Network Identity		
	Binary code		
SIP Parameter values	INVITE:		
	Content-Type: application/vnd.etsi.cug+xml		
	xml version="1.0"</th <th>ŭ</th> <th></th>	ŭ	
	cug		
	networkIndi	cator	
	cuainterlock	BinaryCode	
	cugCommunicationIndicator=CUG_COM_ind		
	INVITE(IAM): no xml body present		
Comments	interrection and seems pro-		
Message flows	SIP NNI	MGCF	SIP-I
		→	INVITE (IAM)
	100 Trying	Apply post test routine	
	Apply post test routille		

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

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

TP number	TP_407_003	Reference	[1], clause 7.2.1
			[2], clauses 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 released if the	ne PSTN/ISDN network does n	ot support CUG, CUG without
	outgoing access		
Test Purpose	Ensure that on receipt of an IN		
	application/vnd.etsi.cug+xml ar		
	'11', the communication is relea		response if the PSTN/ISDN
	network does not support CUG	<u> </u>	
ISUP Parameter values			
SIP Parameter values	INVITE:		
	Content-Type: application/vnd.	etsi.cug+xml	
	xml version="1.0"</th		
	cug		
	networkIndicator		
	cugInterlockE		
		icationIndicator= '11'	
	INVITE(IAM): no xml body pres	sent	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE →		
	403 Forbidden ←		
	ACK →		
		Apply post test routine	

TP number	TP 407 004	Reference	[1], clause 7.2.1
		11010101100	[2], clauses 7.5.10.1,
			table, 7.5.10.1.4
TSS reference	IMS-SS/CUG/	l e e e e e e e e e e e e e e e e e e e	table, rierrerri
Selection criteria	PICS 6.3.2/23 AND PIC	S 6.3.10/2	
Test Purpose name	Communication is treate CUG, CUG with outgoin	•	STN/ISDN network does not support
Test Purpose		f an INVITE request containi	
			the cugCommunicationIndicator set to
			if the PSTN/ISDN network does not
		user group interlock code is	not present in the sent INVITE with
	encapsulated IAM		
ISUP Parameter values			
SIP Parameter values	INVITE:		
	Content-Type: application		
	xml version="</th <th>1.0"</th> <th></th>	1.0"	
	cug		
		rkIndicator	
		erlockBinaryCode	
		ommunicationIndicator='10'	
	INVITE(IAM): no xml bo	dy present	
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE (IAM)
	100 Trying	←	
		Apply post test ro	utine

TP number	TP_407_005	Reference	[1], clause 7.2.1
			[2], clauses 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 an	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 gi	roup interlock code is not prese	ent in the sent invite with
IOUR D	encapsulated IAM		
ISUP Parameter values			
SIP Parameter values	INVITE:		
	Content-Type: application/vnd.	etsi.cug+xml	
	xml version="1.0"</th <th></th> <th></th>		
	cug		
	networkIndica	ator	
	cugInterlockE		
	cugCommuni	icationIndicator='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], clauses 7.5.10.2,		
			table, 7.5.10.2.2		
TSS reference	IMS-SS/CUG/	·	·		
Selection criteria	PICS 6.3.2/23 AND N	PICS 6.3.2/23 AND NOT PICS 6.3.10/1			
Test Purpose name	Mapping of the ISUP	Mapping of the ISUP closed usergroup interloccode to SIP XML CUG element			
Test Purpose			ed IAM and a Closed user group		
			est is sent. The Network Identity		
			lement, the Binary code is mapped into		
	the XML cugInterlock	BinaryCode			
ISUP Parameter values	IAM:				
	Optional forwa	rd call indicator			
		er group call indicator			
		Closed user group interlock code			
	Network Identity=any proper value				
	Binary cod	de=any proper value			
SIP Parameter values	INVITE:				
	Content-Type: application/vnd.etsi.cug+xml				
	xml version="1.0"</th				
	cug				
	netv	workIndicator= mapped from	Network Identity		
	cug	InterlockBinaryCode= mappe	ed from <i>Binary code</i>		
	cug	CommunicationIndicator			
	INVITE(IAM): no xml body present				
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE (IAM)	→	→ INVITE		
	,		100 Trying		
		Apply post test ro	utine		

TP number	TP_407_007	Reference	[1], clause 7.3.1
			[2], clauses 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	ergroup interloccode to SIP XI	ML CUG element
Test Purpose	Ensure that on receipt of an IA		
	CUG_ind, an INVITE request i		
	from the ISUP Closed user gro	up call indicator set to CUG_ir	d as indicated in table 6.3.7-2
ISUP Parameter values	IAM:		
	Optional forward call inc		
		all indicator=CUG_ind	
	Closed user group inter	lock code	
	Network Identity		
	Binary code		
SIP Parameter values	INVITE:		
	Content-Type: application/vnd.etsi.cug+xml		
	xml version="1.0"</th		
	cug		
	networkIndica		
	cugInterlockE		
	cugCommunicationIndicator=CUG_COM_ind		
	INVITE(IAM): no xml body pres	sent	
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

	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,	
			1.5.2.4.2/Q.735.1	
TSS reference	IMS-SS/CUG/		•	
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.1	PICS 6.3.2/23 AND PICS 6.3.10/1 AND PICS 6.3.10/1		
Test Purpose name	Communication is released if t	Communication is released if the IMS network does not support CUG, CUG without		
	outgoing access			
Test Purpose	indicator Closed user group cannot allowed and the IMS netwo	IVITE with encapsulated IAM and that indicator is set to closed user groork does not support the CUG suppleset to #29 Facility rejected the diag	up call, outgoing access ementary service, a REL	
ISUP Parameter values	Optional forward call in Closed user group of Closed user group inter Network Identity Binary code REL: Cause indicator Cause value=29 Diagnostics=3	call indicator=C UG call, outgoing a	ccess not allowed	
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,
			1.5.2.4.2/Q.735.1
TSS reference	IMS-SS/CUG/		
Selection criteria	PICS 6.3.2/23 AND PICS 6.3.10/1 AND PICS 6.3.10/1		
Test Purpose name	Communication is treated as CUG with outgoing access	an ordinary call if the IMS netwo	ork does not support CUG,
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	Optional forward call i Closed user group Closed user group inte Network Identity Binary code	call indicator=C UG call, outgo	ing access allowed
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] 7.7.10.3		
			[2] 7.5.11.1, table 7.5.11.1.1		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Mapping of CCNR possible ind	ication in the ACM			
Test Purpose	Ensure that on receipt of a 180				
	indicator is present set to 'CCN				
	present, the URI is derived from		purpose parameter is set to		
	'call-completion', the m parame	ter 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 pa<="" th=""><th>rty number digits>;purpose=c</th><th>all-completion;m=NR</th></sip:called>	rty number digits>;purpose=c	all-completion;m=NR		
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] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Mapping of CCNR possible ind	ication in the (CPG	
Test Purpose	Ensure that on receipt of a 180	Ringing with	encapsulated CPG Event indicator set to	
			esent set to 'CCNR possible' a 180 Ringing is	
	sent. A Call-Info header is pres	ent, the URI is	s derived from the Called party number, the	
	purpose parameter is set to 'ca	II-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 indicato	r		
	CCNR possible			
SIP Parameter values	180: Call-Info: <sip:called pa<="" th=""><th>rty number di</th><th>gits>;purpose=call-completion;m=NR</th></sip:called>	rty number di	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] 7.7.10.3	
			[2] 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		rty number digits>;purpose=c	all-completion;m=BS	
Comments			·	
Message flows	SIP NNI	MGCF	SIP-I	
	INVITE → 486 Busy here ← ACK →	→ ← Apply post test routine	INVITE(IAM) 486 Busy Here(REL) ACK	

TP number	TP_408_004	Reference	[1] 7.7.10.3	
			[2] 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			RI into CCSS parameter in the IAM	
Test Purpose	Ensure that on receipt of an INVITE request and a m parameter set to 'BS' or 'NR' an INVITE request with an encapsulated ISUP IAM is sent and the CCSS call indicator parameter is present and the value is set to 'CCSS call'.			
ISUP Parameter values	IAM: CCSS call indicate CCSS call	or		
SIP Parameter values	INVITE: <request th="" uri<=""><th>>;m=NR or ;m=BS</th><th></th></request>	>;m=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] 7.7.10.3
			[2] 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 Call-Info hea	ader in the INVITE into CCS	SS parameter in the IAM
Test Purpose	Ensure that on receipt of an INVITE request and a Call-Info header is present the purpose parameter is set to 'call-completion' and the m parameter set to 'BS' or 'NR' an IAM is sent and the CCSS call indicator parameter is present and the value is set to 'CCSS call'.		
ISUP Parameter values	IAM: CCSS call indica	itor	
SIP Parameter values	INVITE: <request uf<br="">Call-Info: <si NR</si </request>		s>;purpose=call-completion; m=BS or
Comments			
Message flows	SIP NNI	MGCF	SIP-I
	INVITE	→	→ INVITE(IAM)
	100 Trying	←	
		Apply post test r	outine

TP number	TP_408_006	Reference	[1] 7.7.10.3	
			[2] 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	5.3.2/24		
Test Purpose name	Invocation of CCBS in the	I-MGCF m parameter	in Start line	
Test Purpose	Ensure that on receipt of a	a SUBSCRIBE reques	t the Request URI contains the m	
	SCCP UDT or XUDT is se	ent containing a TC-Be	ntains the value 'call-completion', an M3UA gin REQUEST invoke Data field. The TC-	
			derived from the To header, the	
		rived from the From he	eader and the RetainSupported is set to	
	'TRUE'.			
TCAP Parameter values	TC Begin			
	CCBS REQUEST invo			
	CalledPartyNumber derived from the To header			
	CallingPartyNumber derived from the P-Asserted-Identity header			
	RetainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request l<="" th=""><th>JRI>, m=BS</th><th></th></request>	JRI>, m=BS		
	Event: call-	completion		
Comments		<u>-</u>		
Message flows	SIP NNI	MGCF	M3UA	
	SUBSCRIBE →		→ DATA (SCCP (TC-Begin))	
	202 Accepted ←			
		Apply post te	st routine	

TP number	TP 408 007	Reference	[1] 7.7.10.3		
Ti Tidiliboi	11 _ 100_007	T. C.	[2] 7.5.11.1, table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	Invocation of CCBS in the I-MC		neader		
Test Purpose	Ensure that on receipt of a SUI				
10011 di pooc	'call-completion' and a Call-Info				
	m parameter set to 'BS', an M3				
	REQUEST invoke Data field. T				
	derived from the To header, the				
	the RetainSupported is set to		oa mont and t tom meader and		
TCAP Parameter values	TC Begin				
Total Faramotor variage	CCBS REQUEST invoke				
	CalledPartyNumber derived from the To header				
	CallingPartyNumber derived from the P-Asserted-Identity header				
	RetainSupported				
	TRUE				
SIP Parameter values	SUBSCRIBE: <requesr uri=""></requesr>				
	Event: call-comp	letion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
Comments	, partition of the state of the				
Message flows	SIP NNI	MGCF	M3UA		
	SUBSCRIBE →	→	DATA (SCCP (TC-Begin))		
	202 Accepted		3 //		
	Apply post test routine				

TP number	TP_408_008	Reference	[1] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Invocation of CCNR in the I-MC	GCF m parameter in Start line		
Test Purpose	Ensure that on receipt of a SUE	BSCRIBE request the Request	URI contains the m	
	parameter set to 'NR' and Ever			
	SCCP UDT or XUDT is sent co			
	Begin REQUEST invoke Called			
	CallingPartyNumber is derived	from the From header and the	RetainSupported is set to	
	'TRUE'.			
TCAP Parameter values	TC Begin			
	CCNR REQUEST invoke			
	CalledPartyNumber derived from the To header			
	CallingPartyNumber derived from the P-Asserted-Identity header			
	RetainSupported			
	TRUE			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>			
	Event: call-comp	letion		
Comments				
Message flows	SIP NNI	MGCF	M3UA	
	SUBSCRIBE →	→	DATA (SCCP (TC-Begin))	
	202 Accepted ←			
		Apply post test routine		

TP number	TP 408 009	Reference	[4] 7 7 40 2		
i F number	TF_406_009	Reference	[1] 7.7.10.3		
			[2] 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 CCNR in the I-M0	GCF m parameter in Call-Info	header		
Test Purpose	Ensure that on receipt of a SUI	BSCRIBE and the Event head	er field contains the value		
	'call-completion' and a Call-Info	header with purpose parame	eter ser to call-completion and		
	m parameter set to 'NR', an M3				
	REQUEST invoke Data field. T	he TC-Begin REQUEST invol	ke CalledPartyNumber is		
	derived from the To header, the				
	the RetainSupported is set to "				
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>				
on randingion values	Event: call-comp	letion			
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=NR</sip:calling>				
Comments	Can inte. voip.or	aming party marrison digitos, par	pood-our derripioneri, m-rare		
Message flows	SIP NNI	MGCF	M3UA		
moodage nons	SUBSCRIBE →		DATA (SCCP (TC-Begin))		
			DATA (SCOP (TC-Degili))		
	202 Accepted				
		Apply post test routine			

TP number	TP_408_010	Reference	[1] 7.7.10.3		
			[2] 7.5.11.1, table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=BS paramete	er in the Request line and PIDF	basic status "closed" is		
	interworked into CCBS SUSPE	ND			
Test Purpose	Ensure that on receipt of a PUE				
	line is set to 'BS' the Event hea				
	MIME body is present the present		M3UA SCCP UDT or XUDT is		
	sent containing a TC-Cont CCE	BS 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"</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	TD 400 044	Reference	[4] 7 7 40 0		
i P number	TP_408_011	Reference	[1] 7.7.10.3		
			[2] 7.5.11.1, table 7.5.11.1.2		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	PUBLISH with m=BS paramete	er in Call-Info header and PIDF	basic status "closed" is		
_	interworked into CCBS SUSPE	ND			
Test Purpose	Ensure that on receipt of a PUE	BLISH request the Event head	er field contains the value		
-	'presence' and a Call-Info head				
	parameter set to 'BS' and a PID				
	closed', an M3UA SCCP UDT				
	Data field.	g			
TCAP Parameter values	TC-Cont: CCBS SUSPEND				
SIP Parameter values	PUBLISH: <request uri=""></request>				
	Event: presence				
	Call-Info: <sip:calling digits="" number="" party="">;purpose=call-completion; m=BS</sip:calling>				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>				
	<status></status>				
	<pre> <br <="" th=""/><th>d</th><th></th></pre>	d			
Comments	Note the XML semantic is schematically the alias is not considered.				
Message flows	SIP NNI	MGCF	M3UA		
moodago nomo	*** ****				
	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] 7.7.10.3	
			[2] 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 parameter	er in the Request line and PIDF	basic status "open" is	
	interworked into CCBS RESUM	1E		
Test Purpose	Ensure that on receipt of a PUE			
	line is set to 'BS' the Event hea			
	MIME body is present the present		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: applic			
	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 408 013	Reference	[1] 7.7.10.3		
			[2] 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	PUBLISH with m=BS parameter in Call-Info header and PIDF basic status "open" is interworked into CCBS RESUME				
Test Purpose	Ensure that on receipt of a PUBLISH request and the Event header field contains the value 'presence', a Call-Info header with purpose parameter ser to call-completion and m parameter set to 'BS' and a PIDF XML MIME body is present the presence status set to 'open', an M3UA SCCP UDT or XUDT is sent containing a TC-Cont CCBS RESUME Data field.				
TCAP Parameter values	TC-Cont: CCBS RESUME				
SIP Parameter values	PUBLISH: <request uri=""></request>				
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] 7.7.10.3		
			[2] 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	PUBLISH with m=NR parameter in the Request line and PIDF basic status "closed" is				
	interworked into CCBS SUSPEND				
Test Purpose	Ensure that on receipt of a PUBLISH request and a m parameter is present in the Request				
	line is set to 'NR' the Event header field contains the value 'presence' and a PIDF XML				
	MIME body is present the presence status set to 'closed', an M3UA SCCP UDT or XUDT is				
	sent containing a TC-Cont CCBS SUSPEND Data field.				
TCAP Parameter values	TC-Cont: CCBS SUSPEND				
SIP Parameter values	PUBLISH: <request uri="">; m=NR</request>				
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>closed</basic>				
Comments	Note the XML semantic is sche	matically the alias is not consi	dered.		
Message flows	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] 7.7.10.3		
	1.1 _ 1.0 _ 2.0		[2] 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	PUBLISH with m=NR parameter in Call-Info header and PIDF basic status "closed" is interworked into CCBS SUSPEND				
Test Purpose	Ensure that on receipt of a PUBLISH request the Event header field contains the value 'presence', a Call-Info header with purpose parameter ser to call-completion and m parameter set to 'NR' and a PIDF XML MIME body is present the presence status set to 'closed', an M3UA SCCP UDT or XUDT is sent containing a TC-Cont CCBS SUSPEND Data field.				
TCAP Parameter values	TC-Cont: CCBS SUSPEND				
SIP Parameter values	PUBLISH: <request uri=""></request>				
Comments	Note the XML semantic is schematically the alias is not considered.				
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] 7.7.10.3		
			[2] 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 PIDI	basic status "open" is		
	interworked into CCBS RESUM	1E			
Test Purpose	Ensure that on receipt of a PUE				
	line is set to 'NR' the Event hea				
	MIME body is present the present		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=NR</request>				
	Event: presence				
	Content-Type: application/pidf+xml				
	xml version="1.0" encoding="UTF-8"?				
	<pre><pre><pre><pre></pre></pre></pre></pre>				
	<status></status>				
	<basic>open</basic>				
Comments	Note the XML semantic is schematically the alias is not considered.				
Message flows	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_017	Reference	[1] 7.7.10.3		
	11 _ 100_017	11010101	[2] 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	er in Call-Info header and PIDF	basic status "open" is		
Test Purpose	Ensure that on receipt of a PUBLISH request and Event header field contains the value 'presence' a Call-Info header with purpose parameter ser to call-completion and m parameter set to 'NR' and a PIDF XML MIME body is present the presence status set to 'open', an M3UA SCCP UDT or XUDT is sent containing a TC-Cont CCBS RESUME Data field.				
TCAP Parameter values	TC-Cont: CCBS RESUME				
SIP Parameter values	Content-Type: applic xml version="1.0"<br <pre><pre><pre><status> <basic>open</basic></status></pre></pre></pre>	encoding="UTF-8"?> 			
Comments	Note the XML semantic is schematically the alias is not considered.				
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] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	SUBSCRIBE with m=BS and E	xpires header set to '0' is inter	worked into CCBS CANCEL	
Test Purpose	Ensure that on receipt of a SUE	SSCRIBE request and a m par	ameter is present in the	
	Request line is set to 'BS' or a			
	completion and m parameter se			
	completion' and an Expires hea	der 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=BS</request>			
	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] 7.7.10.3		
			[2] 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	rworked into CCBS CANCEL		
Test Purpose	Ensure that on receipt of a SUE				
-	Request line is set to 'NR' or a				
	completion and m parameter se	et to 'BS' and Event header fie	ld contains the value 'call-		
	completion' and an Expires hea	ader set to '0', an M3UA SCCF	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] 7.7.10.3		
			[2] 7.5.11.1, table 7.5.11.1.3		
TSS reference	IMS-SS/CC/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24			
Test Purpose name	TC-Cont CCBS REQUEST (ret	urn result) is interworked into I	NOTIFY cc-service-retention		
	present				
Test Purpose	Ensure that on receipt of an M3				
	(return result) Data field and the				
	request is sent and the cc-state	body is set to 'queued' the cc	-service-retention body is set		
	to 'true'.				
TCAP Parameter values	TC-Cont: CCBS REQUEST (re				
	RetainSupported				
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] 7.7.10.3		
	11 _ 100_021	110.0.0.00	[2] 7.5.11.1, table 7.5.11.1.3		
TSS reference	IMS-SS/CC/		[2] 7.0.11.1, table 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 (re		NOTIEV cc-service-retention		
rest i dipose name	·	diff result) is lifter worked lifto	NOTH 1 cc-service-retention		
T(D	not present	NIA LIDT - WIDT t-inin	- TO 0+ 00D0 DECUEOT		
Test Purpose	Ensure that on receipt of an M				
	(return result) Data field and th				
	request is sent and the cc-state	e body is set to 'queued' a cc-s	ervice-retention body is not		
	present.				
TCAP Parameter values	TC-Cont: CCBS REQUEST (r	eturn result)			
	RetainSupported=FALSE				
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		2(GGG: (1.G 20g))		
	202 Accepted				
	NOTIFY ←	←	DATA (CCCD (TC Cont))		
		=	DATA (SCCP (TC-Cont))		
	200 OK (NOTIFY) →				
		Apply post test routine			

TP number	TP_408_022	Reference	[1] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	CCBS Return error TC-End Sh	ortTermDenial rec	eived, 480 Temporarily Unavailable	
	response to SUBCRIBE			
Test Purpose			containing a TC-End CCBS REQUEST	
			ShortTermDenial', a 480 Temporarily	
	Unavailable final response to the	e SUBCRIBE CC	BS request is sent.	
TCAP Parameter values	TC Begin			
	CCBS REQUEST invoke			
	TC-End CCBS REQUEST (Return error)			
	ShortTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=BS		
	Event: call-comp	letion		
Comments				
Message flows	SIP NNI	MGCI	M3UA	
	SUBCRIBE	→	→ DATA (SCCP (TC-Begin))	
	480 Temporarily Unavailable	←	← DATA (SCCP (TC-End))	
	Apply post test routine			

TP number	TP_408_023	Reference	[1] 7.7.10.3		
			[2] 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	CCBS Return error TC-End Loresponse to SUBCRIBE	ngTermDenial received	l, 403 Forbidden unavailable		
Test Purpose	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 (Return error) LongTermDenial				
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				

TD	TD 400 004	D - ([4] 7 7 40 0	
TP number	TP_408_024	Reference	[1] 7.7.10.3	
			[2] 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	nortTermDenial receive	ed, 480 Temporarily Unavailable	
Test Purpose	Ensure that on receipt of an M	3UA UDT or XUDT cor	ntaining a TC-End CCNR REQUEST	
	(Return error) component in th	e Data field set to 'Sho	ortTermDenial', a 480 Temporarily	
	Unavailable final response to t	he SUBCRIBE CCNR	request is sent.	
TCAP Parameter values	TC Begin			
	CCNR REQUEST invoke			
	TC-End CCNR REQUEST (Return error)			
	ShortTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>	m=NR		
	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 routine			

TP number	TP_408_025	Reference	[1] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	CCNR Return error TC-End Lo	ngTermDenial received	, 403 Forbidden unavailable	
	response to SUBCRIBE			
Test Purpose			C-End CCNR REQUEST (Return	
			nial', a 403 Forbidden final response	
	to the SUBCRIBE CCNR reque	est is sent.		
TCAP Parameter values	TC Begin			
	CCNR REQUEST invoke			
	TC-End CCNR REQUEST (Return error)			
	LongTermDenial			
SIP Parameter values	SUBSCRIBE: <request uri="">,</request>			
	Event: call-completion			
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_026	Reference	[1] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24		
Test Purpose name	TC-End CCBS CANCEL received	ved after CCBS was success	fully invoked	
Test Purpose	Ensure that on receipt of an Ma			
			containing a m parameter set to	
	'BS' in the Request line and a		t to 'terminated ' and the	
	subexp-params reason set to	'noresource'.		
TCAP Parameter values	TC-End			
	CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""></request>			
	Event:call-completion			
	Subscription-State: terminated; reason=noresource			
Comments				
Message flows	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] 7.7.10.3	
		1.0.0.0.00	[2] 7.5.11.1, table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS	S 6.3.2/24		
Test Purpose name	TC-End CCBS CANCE	L received after CCNR was:	successfully invoked	
Test Purpose	Ensure that on receipt of an M3UA SCCP containing a TC-End CCBS CANCEL after a CCNR was successfully invoked, a NOTIFY request is sent containing a m parameter set to 'NR' in the Request line and a Subscription-State header set to 'terminated ' and the subexp-params reason set to 'noresource'.			
TCAP Parameter values	TC-End CCBS CANCEL			
SIP Parameter values	NOTIFY: <request uri=""> Event:call-completion Subscription-State: terminated; reason=noresource</request>			
Comments				
Message flows	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] 7.7.10.3	
			[2] 7.5.11.1, table 7.5.11.1.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	Interworking of Remote user fre	ee indication at the I-MGCF		
Test Purpose	Ensure that on receipt of an M3			
	FREE invoke component in the	Data field, a NOTIFY request	t is sent and a cc-state body is	
	present set to 'ready'.			
TCAP Parameter values	TC-Cont			
	CCBS REMOTE USER FR	<u>EE</u>		
SIP Parameter values	NOTIFY: Event: call-completic			
	Content-Type: applic	cation/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] 7.7.10		
			[2] 7.5.11.2, table 7.5.11.2.1		
TSS reference	IMS-SS/CC/	•			
Selection criteria	PICS 6.3.1/2 AND PICS	6.3.2/24			
Test Purpose name	Mapping of CCNR possi	ble indication in a 180 into t	he CCNR possible indicator in the ACM		
Test Purpose			response and a Call-Info header is		
		the terminating user and a			
			Ringing with encapsulated ISUP ACM		
	is sent and a CCNR pos	sible indicator Parameter is	present set to 'CCNR possible'.		
ISUP Parameter values	IAM: Called party num	ber			
	Number digits				
	ACM: Called party status				
	Subscriber free				
	CCNR possible indicator				
	CCNR possible				
SIP Parameter values	180: Call-Info: <sip:ca< th=""><th>ılled party number digits>;pı</th><th>urpose=call-completion</th></sip:ca<>	ılled party number digits>;pı	urpose=call-completion		
Comments					
Message flows	SIP-I	MGCF	SIP NNI		
	INVITE(IAM)	→	→ INVITE		
	180 Ringing (ACM)	←	← 180 Ringing		
	Apply post test routine				

TP number	TP_408_030	Reference	[1] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.1	
TSS reference	IMS-SS/CC/	·		
Selection criteria	PICS 6.3.1/2 AND PICS	6 6.3.2/24		
Test Purpose name	486 with Call-Info heade	er is mapped into REL cause	e 17 and CCBS possible	
Test Purpose	Ensure that on receipt o	of a 486 Busy Here and a Ca	II-Info header is present set to the URI	
			t to 'call-completion' and m parameter	
	ser to 'BS', a 486 Busy I	Here with encapsulated ISUI	P REL message is sent and the Cause	
	value is set to 17 or 34 t	the Diagnostics is set to 'CCI	BS possible'.	
ISUP Parameter values	REL: Cause indicator			
	Cause=17 or	34		
	Diagnostics= CCBS possible			
SIP Parameter values	486: Call-Info: <sip:ca< th=""><th>alled party number digits>;pu</th><th>urpose=call-completion</th></sip:ca<>	alled party number digits>;pu	urpose=call-completion	
Comments				
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] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.1	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND P	ICS 6.3.2/24		
Test Purpose name	CCSS call indicator i	in IAM is mapped into the m par	ameter 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 ind CCSS cal			
SIP Parameter values		URI>;m=NR or ;m=BS <sip:called digits:<="" number="" party="" th=""><th>>;purpose=call-completion; m=BS or</th></sip:called>	>;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] 7.7.10			
			[2] 7.5.11.2, table 7.5.11.2.2			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	/24				
Test Purpose name	TC-Begin CCBS REQUEST (i	nvoke) is mapped into SUBC	RIBE request invokes CCBS			
Test Purpose		Ensure that on receipt of an M3UA SCCP containing a TC-Begin CCBS REQUEST (invoke) component, a SUBSCRIBE request is sent and the From and the P-Asserted-				
			ingPartyNumber the To header			
			he Event header field is set to			
	'call-completion' the Request I	ine contains the m paramete	r set to "BS".			
TCAP Parameter values	TC-Begin					
	CCBS REQUEST invoke					
		CalledPartyNumber				
	CallingPartyNumber					
	retainSupported					
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri=""></request>	, m=BS				
	From: <derived< th=""><th>from the CCBS REQUEST (</th><th>CallingPartyNumber ></th></derived<>	from the CCBS REQUEST (CallingPartyNumber >			
	To: <derived fro<="" th=""><th colspan="4">To: <derived calledpartynumber="" ccbs="" from="" request="" the=""></derived></th></derived>	To: <derived calledpartynumber="" ccbs="" from="" request="" the=""></derived>				
	P-Asserted-Identity: <derived ccbs="" from="" request<="" th="" the=""></derived>					
		CallingPartyNumber >				
	Event: call-comp					
	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] 7.7.10			
			[2] 7.5.11.2, table 7.5.11.2.2			
TSS reference	IMS-SS/CC/					
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24				
Test Purpose name	TC-Begin CCNR REQUEST (in	voke) is mapped into SUBCRI	BE request invokes CCNR			
Test Purpose	Ensure that on receipt of an M3					
	(invoke) component, a SUBSCI					
	Identity header are derived fron					
	is derived from the CCNR REQ					
	'call-completion' the Request lin	e contains the m parameter se	et to 'NR'.			
TCAP Parameter values	TC-Begin					
	CCNR REQUEST invoke					
	CalledPartyNumber					
	CallingPartyNumber	CallingPartyNumber				
	retainSupported					
	TRUE					
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>					
	From: <derived callingpartynumber="" ccnr="" from="" request="" the=""></derived>					
	To: <derived calledpartynumber="" ccnr="" from="" request="" the=""></derived>					
	P-Asserted-Iden	tity: <derived ccbs<="" from="" th="" the=""><th></th></derived>				
	CallingPartyNumber >					
	Event: call-compl	etion Expires: <a< th=""><th>ny value></th></a<>	ny value>			
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] 7.7.10		
			[2] 7.5.11.2, table 7.5.11.2.2		
TSS reference	IMS-SS/CC/		, , , , , , , , , , , , , , , , , , ,		
Selection criteria	PICS 6.3.1/2 AND PIC	S 6.3.2/24			
Test Purpose name	TC-Cont CCBS SUSPI "closed"	TC-Cont CCBS SUSPEND is interworked into PUBLISH with m=BS and PIDF basic status "closed"			
Test Purpose	CCBS or CCNR is invoked and the remote user is free. Ensure that on receipt of an M3UA SCCP TC-Cont CCBS SUSPEND invoke component, a PUBLISH request is sent containing the m parameter in the Request URI set to 'BS' or 'NR' the Event header set to 'presence' and a PIDF XML MIME body is present the presence status set to 'closed'.				
TCAP Parameter values	TC-Cont CCBS SUSPEND	, ,	•		
SIP Parameter values	xml version <pre <pre><pre><pre><status></status></pre></pre></pre>	ence be: application/pidf+xml on="1.0" encoding="UTF-8"?>			
Comments	Note the XML semantic is schematically the alias is not considered.				
Message flows	M3UA	MGCF	SIP NNI		
	Invoke a succ	Invoke a successful CCBS/CCNR request and remote user is now free			
	DATA (SCCP (TC-Con	ıt)) →	→ PUBLISH		
	← 200 OK (PUBLI				
	Apply post test routine				

TP number	TP_408_035	Reference	[1] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.2	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	TC-Cont CCBS RESUME is integrated by the state of the sta	erworked into PUBLISH with r	m=NR and PIDF basic status	
Test Purpose	CCBS or CCNR is invoked and the remote user is free the originating user is suspended. Ensure that on receipt of an M3UA SCCP TC-Cont CCBS SUSPEND invoke component, a PUBLISH request is sent containing the m parameter in the Request URI set to 'BS' or 'NR' the Event header set to 'presence' and a PIDF XML MIME body is present the presence status set to 'open'.			
TCAP Parameter values	TC-Cont CCBS RESUME			
SIP Parameter values	<pre><pre><pre><status></status></pre></pre></pre>	eation/pidf+xml encoding="UTF-8"?> 		
Comments	Note the XML semantic is schematically the alias is not considered.			
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] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.2	
TSS reference	IMS-SS/CC/	•		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24		
Test Purpose name	TC-End CCBS CANCEL is into header set to '0'	erworked into SUBSCRIBE with	n m=BS or NR and Expires	
Test Purpose	A CCBS or CCNR is successfully invoked. Ensure that on receipt of a UDT or XUDT containing an M3UA SCCP TC-End CCBS CANCEL Data field, a SUBSCRIBE request is sent and a m parameter is present in the Request URI set to 'BS' or 'NR the Event header field is set to 'call-completion' and the Expires header is set to '0'.			
TCAP Parameter values	TC-End: CCBS CANCEL			
SIP Parameter values	SUBSCRIBE: <request uri="">;</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] 7.7.10	
			[2] 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	A NOTIFY cc-state 'queued' an	d cc-service-retention 'true' is	mapped into a TC-Cont	
	CCBS REQUEST (return result) retain supported		
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 el	ement is set to 'TRUE'.		
TCAP Parameter values	TC-Cont: CCBS REQUEST (re	eturn result)		
	RetainSupported=TRUE			
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
	cc-service-retent	ion: 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] 7.7.10	
			[2] 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	A NOTIFY cc-state 'queued' an			
	TC-Cont CCBS REQUEST (ret	urn result) retain not supporte	d	
Test Purpose	Ensure that on receipt of a NO	ΠFY request the Event heade	r field is set to 'call-completion'	
	the cc-state body is set to 'que			
	M3UA SCCP TC-Cont is sent a		ırn result) component is	
	present the RetainSupported el	ement is set to 'FALSE'.		
TCAP Parameter values	TC-Cont: CCBS REQUEST (re	eturn result)		
	RetainSupported	=FALSE		
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queued			
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] 7.7.10		
			[2] 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	A NOTIFY cc-state 'queued' an	d cc-service-retention 'true' is	mapped into a TC-Cont		
	CCNR REQUEST (return resul	t) retain supported			
Test Purpose	Ensure that on receipt of a NO				
	the cc-state body is set to 'que				
	M3UA SCCP TC-Cont is sent a		urn result) component is		
	present the RetainSupported e	ement is set to 'TRUE'.			
TCAP Parameter values	TC-Cont: CCNR REQUEST (r	eturn result)			
	RetainSupported=TRUE				
SIP Parameter values	NOTIFY: Event: call-completion				
	Content-Type: application/call-completion				
	cc-state: queued				
	cc-service-retent	ion: 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 number	TP_408_040	Reference	[1] 7.7.10	
			[2] 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'	and cc-service-retention 'true' is	s mapped into a TC-Cont	
	CCNR REQUEST (return res	sult) retain not supported		
Test Purpose			er field is set to 'call-completion'	
		eued' and the cc-service-reten		
		t and the CCNR REQUEST (re	turn result) component is	
	present the RetainSupported			
TCAP Parameter values	TC-Cont: CCNR REQUEST	(return result)		
	RetainSupport	ed=FALSE		
SIP Parameter values	NOTIFY: Event: call-completion			
	Content-Type: application/call-completion			
	cc-state: queue	ed		
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	CCNR request already invoked			
	DATA (SCCP (TC-Cont))	+ +	NOTIFY	
	, , , , , , , , , , , , , , , , , , , ,	→	200 OK (NOTIFY)	
		Apply post test routine	,	

TP number	TP_408_041	Reference	[1] 7.7.10	
			[2] 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	480 Temporarily Unavaila	ble is received	
Test Purpose	Ensure that on receipt of a 480 Temporarily Unavailable final response upon CCBS was requested, an M3UA SCCP TC-End CCBS REQUEST (Return error) component containing the ShortTermDenial Element is sent.			
TCAP Parameter values	TC-End CCBS REQUEST (F ShortTerm			
SIP Parameter values	SUBSCRIBE: <request uri<br="">Event: call-cor</request>			
Comments		•		
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin))	→	SUBCRIBE	
	DATA (SCCP (TC-End))	-	480 Temporarily Unavailable	
	Apply post test routine			

TP number	TP_408_042	Reference	[1] 7.7.10
			[2] 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 48	30 Temporarily Unavailable is	received
Test Purpose	Ensure that on receipt of a 480		
	requested, an M3UA SCCP TC	-End CCNR REQUEST (Retu	ırn error) component
	containing the ShortTermDenia	l Element is sent.	
TCAP Parameter values	TC-End CCNR REQUEST (Return error)		
	ShortTermDe	enial	
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>		
	Event: call-comp	letion	
Comments			
Message flows	M3UA	MGCF	SIP NNI
	DATA (SCCP (TC-Begin))	→ s	UBCRIBE
	DATA (SCCP (TC-End))	← 48	30 Temporarily Unavailable
	, , , , , , , , , , , , , , , , , , , ,	Apply post test routine	• •

TP number	TP_408_043	Reference	[1] 7.7.10	
			[2] 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 4	03 Forbidden is received		
Test Purpose	Ensure that on receipt of a 403 Forbidden final response upon CCBS was requested, an M3UA SCCP TC-End CCBS REQUEST (Return error) component containing the LongTermDenial Element is sent.			
TCAP Parameter values	TC-End CCBS REQUEST (Re			
SIP Parameter values	SUBSCRIBE: <request uri=""> Event: call-com</request>	•		
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin))	→ →	SUBCRIBE	
	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	← ←	403 Forbidden	
	Apply post test routine			

TP number	TP_408_044	Reference	[1] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	24		
Test Purpose name	CCNR request unsuccessful 4	03 Forbidden is sent		
Test Purpose	Ensure that on receipt of a 403	Ensure that on receipt of a 403 Forbidden final response upon CCNR was requested, an M3UA SCCP TC-End CCNR REQUEST (Return error) component containing the		
	LongTermDenial Element is sent.			
TCAP Parameter values	TC-End CCNR REQUEST (Re	TC-End CCNR REQUEST (Return error)		
	LongTermDe	enial		
SIP Parameter values	SUBSCRIBE: <request uri="">, m=NR</request>			
	Event: call-completion			
Comments				
Message flows	M3UA	MGCF	SIP NNI	
	DATA (SCCP (TC-Begin))	→ → 9	SUBCRIBE	
	DATA (SCCP (TC-End))	← ← 4	03 Forbidden	
	Apply post test routine			

TP number	TP_408_045	Reference	[1] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.3	
TSS reference	IMS-SS/CC/			
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/2	24		
Test Purpose name	CCBS invoked. NOTIFY with S	tate header field set to "termir	nated" 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=""> Event:call-compl Subscription-Sta</request>	etion te: terminated; reason=noresc	ource	
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] 7.7.10	
			[2] 7.5.11.2, table 7.5.11.2.3	
TSS reference	IMS-SS/CC/	·		
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2	2/24		
Test Purpose name	CCNR invoked at the O-MGC TC-End is sent	F NOTIFY with State header fie	eld 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-com Subscription-S</request>	pletion tate: 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] 7.7.10	
			[2] 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	Interworking of Remote user from	ee indication at the O-MGCF		
Test Purpose	Ensure that on receipt of a NO			
	completion was successfully in		ont message is sent	
	containing the CCBS REMOTE	USER FREE component.		
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	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/	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 in	ndicator			
	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		
Ti Tidilibei	11 _403_002	Reference	[2], clause 7.5.12		
T00 (18.4000/034//		[[2], clause 7.5.12		
TSS reference	IMS-SS/CW/				
Selection criteria	PICS 6.3.1/2 AND PICS 6				
Test Purpose name	Mapping of Generic notific 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				
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 ro	SIP-I → INVITE (IAM) ← 183 Session Progress (ACM) ← 180 Ringing (CPG) Dutine		

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	8		
Test Purpose name	Interworking of the Alert-Info he Ringing with encapsulated ACM		tification '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 in	ndicator		
	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) →	→ IN\	'ITE	
		← 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/	IMS-SS/CW/				
Selection criteria	PICS 6.3.1/2 AND PICS 6.3.2/	8				
Test Purpose name	Interworking of the Alert-Info h Ringing with encapsulated CP		c 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', 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	INVITE (IAM) →	→	SIP NNI INVITE 100 Trying			
	180 Ringing (ACM) T i/w2 expired CPG ← 180 Ringing Apply post test routine					

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)".
- 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".

History

Document history		
V1.1.1	October 2013	Publication
V1.2.1	July 2014	Publication