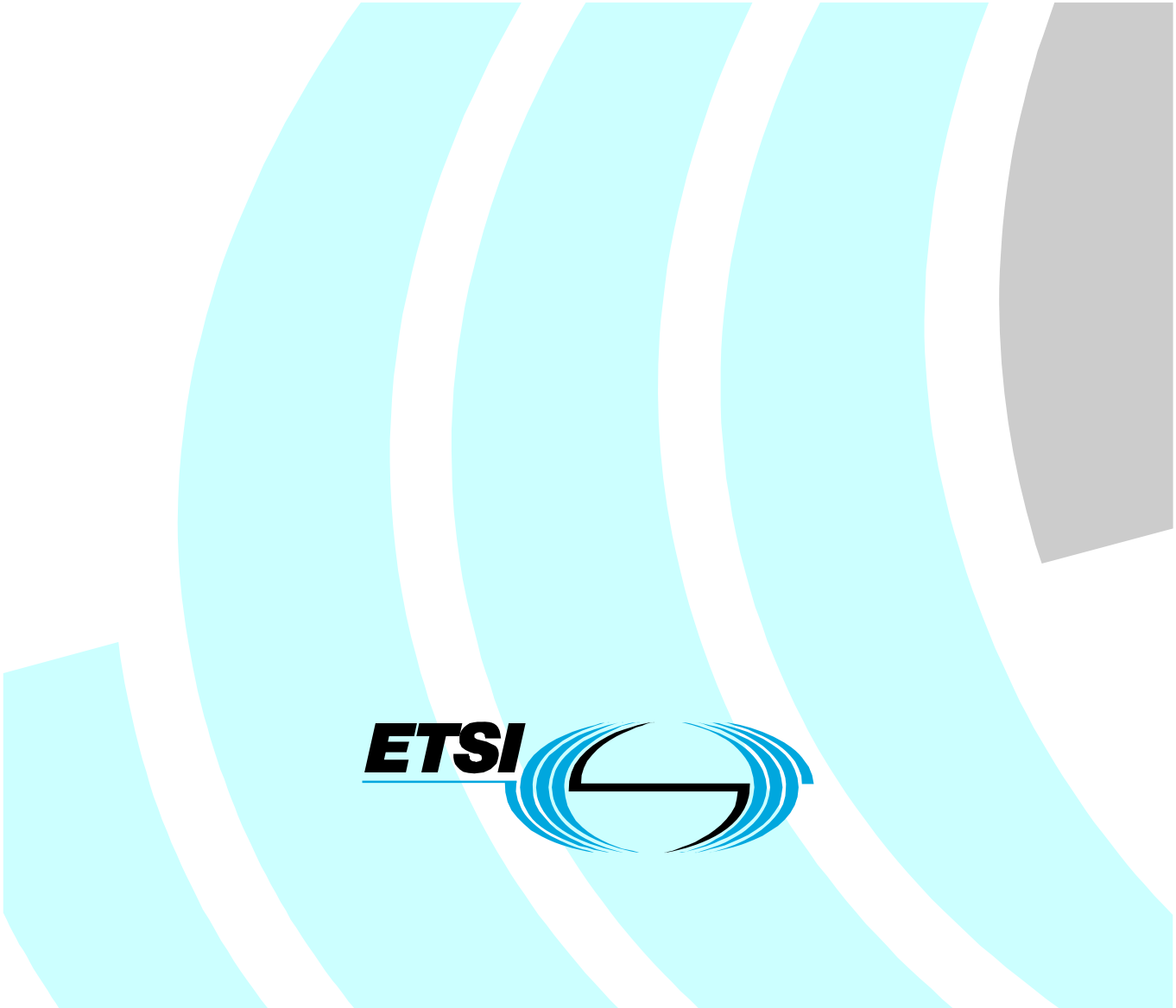
ETSI TS 186 012-2 V1.0.0 (2008-06)

Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Subaddressing (SUB); Part 2: Test Suite Structure and Test Purposes (TSS&TP)



Reference
DTS/TISPAN-06044-2-NGN

Keywords
IMS, SUB, 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

Contents

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://webapp.etsi.org/IPR/home.asp).

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 Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 2 of a multi-part deliverable covering the Subaddressing (SUB) service, as identified below:

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

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

1 Scope

The present document specifies the test suite structure and test purposes of the Subaddressing (SUB) service, based on IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3. Within the Next Generation Network (NGN) the stage 3 description is specified using the IP-Multimedia Communication Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
  - for informative references.

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

For online referenced documents, information sufficient to identify and locate the source shall be provided. Preferably, the primary source of the referenced document should be cited, in order to ensure traceability. Furthermore, the reference should, as far as possible, remain valid for the expected life of the document. The reference shall include the method of access to the referenced document and the full network address, with the same punctuation and use of upper case and lower case letters.

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 indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

[1] ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 (Release 7), modified]".

[2] ETSI TS 186 012-1: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Subaddressing (SUB); Part 1: Protocol Implementation Conformance Statement (PICS)".

[3] ETSI TS 181 002: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Multimedia Telephony with PSTN/ISDN simulation services".

[4] IETF RFC 3261: "SIP: Session Initiation Protocol".

[5] ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]".

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area**.** For non-specific references, the latest version of the referenced document (including any amendments) applies.

[i.1] IETF RFC 3966 (2004): "The tel URI for Telephone Numbers".

[i.2] ISO/IEC 8348:2002: "Information technology - Open Systems Interconnection - Network service definition".

[i.3] ITU-T Recommendation X.213: "Information technology - Open Systems Interconnection - Network service definition".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 181 002 [3] and RFC 3261 [4] apply.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ACK	ACKnowledgement
HOLD	communication HOLD
IMS	IP Multimedia Subsystem
IP	Internet Protocol
ISDN	Integrated Service Data Network
NGN	Next Generation Network
PSTN	Public Switched Telephone Network
SDP	Session Description Protocol
SIP	Session Initiation Protocol
SUB	Subaddressing
TIP	Terminating Identification Presentation
UA	User Agent
UE	User Equipment
URI	Universal Resource Identifier

4 Test Suite Structure (TSS)

SUB			
	originating_UE		SUB_U01_xxx
	originating_P-CSCF		SUB_N01_xxx
	destination_P-CSCF		SUB_N02_xxx
	destination_UE		SUB_U02_xxx
ISUP-SIP			
	SS	SUB	TP607xxx
SIP-ISUP			
	SS	SUB	TP508xxx

5 Test Purposes (TP)

5.1 Introduction

For each test requirement 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 1).

Table 1: TP identifier naming convention scheme

Identifier: **<ss>_<iut><group>_<nnn>**				
<ss>	=	supplementary service:	e.g. "SUB"	
<iut>	=	type of IUT:	U	User – equipment
			N	Network
<group>	=	group	2 digit field representing group reference according to TSS	
<nnn>	=	sequential number	(001-999)	

5.1.2 Test strategy

As the base standard ES 283 003 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 186 012-1 [2]. The criteria applied include the following:

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

5.2 Test Purposes for Subaddressing (SUB)

5.2.1 Actions at the originating UA

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/originating_UE	SUB_U01_001	clause 4.5.2	PICS 1/1
Test purpose *UE sends a subaddress in the From header in the initial INVITE* Ensure that the originating user equipment is able to send an ISDN calling party subaddress in the **From** header of the INVITE			
Preconditions:			
SIP header values: INVITE: From: sip: user part; isub=<subaddress>@hostportion			

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/originating_UE	SUB_U01_002	clause 4.5.2	PICS 1/1

Test purpose
UE sends a subaddress in the To header in the initial INVITE
Ensure that the originating user equipment is able to send a called party ISDN subaddress in the **To** header of the INVITE

Preconditions:

SIP header values:
INVITE: To: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.2.2 Actions at the originating P-CSCF

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/originating_P-CSCF	SUB_N01_001	clause 4.5.2	PICS 1/2

Test purpose
Ensure that the originating P-CSCF in able to transfer an ISDN subaddress in the **From** header and **To** header of the received INVITE into the P-Asserted-Identity and Request-URI

Preconditions:

SIP header values:
INVITE: **From:** sip: user part; isub=<subaddress>@hostportion
To: sip: user part; isub=<subaddress>@hostportion
INVITE: **P-Asserted-Identity:** sip: user part; isub=<subaddress>@hostportion
Request-URI: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/originating_P-CSCF	SUB_N01_002	clause 4.5.2	PICS 1/2

Test purpose

Ensure that the originating P-CSCF in able to pass an ISDN connected subaddress in the “changed” **From** header of the UPDATE

Preconditions:

SIP header values:
INVITE: supported: from-change
UPDATE: From: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE (From-change)	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
UPDATE (From)	←		←	UPDATE (From)
200 OK UPDATE	→		→	200 OK UPDATE
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/originating_P-CSCF	SUB_N01_003	clause 4.5.2	PICS 1/2

Test purpose
Ensure that the originating P-CSCF is able to pass an ISDN connected subaddress in the P-Asserted-Identity header of the 200 OK (INVITE)

Preconditions:

SIP header values:
200 OK (INVITE): P-Asserted-Identity: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE (From-change)	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.2.3 Actions at the destination P-CSCF

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/destination_P-CSCF	SUB_N02_001	clause 4.5.2	PICS 1/2

Test purpose
Ensure that the terminating P-CSCF is able to pass an ISDN subaddress in the **P-Asserted-Identity** header and **Request-URI** header of the INVITE

Preconditions:

SIP header values:
INVITE: P-Asserted-Identity: sip: user part; isub=<subaddress>@hostportion
Request-URI: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/destination_P-CSCF	SUB_N02_002	clause 4.5.2	PICS 1/2

Test purpose
Ensure that the terminating P-CSCF is able to pass an ISDN subaddress in the “changed” **From** header of the UPDATE

Preconditions:

SIP header values:
INVITE: supported: from-change
UPDATE: From: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE (From-change)	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
UPDATE (From)	←		←	UPDATE (From)
200 OK UPDATE	→		→	200 OK UPDATE
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/destination_P-CSCF	SUB_N02_003	clause 4.5.2	PICS 1/2

Test purpose
Ensure that the terminating P-CSCF is able to pass an ISDN subaddress in the P-Asserted-Identity header of the UPDATE

Preconditions:

SIP header values:
200 OK (INVITE): From: sip: user part; isub=<subaddress>@hostportion

Comments:

UA C		**SUT**		**UA S**
INVITE (From-change)	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.2.4 Actions at the destination UA

TSS	**TP**	**SUB reference [5]**	**Selection expression**
SUB/destination_UE	SUB_U02_001	clause 4.5.2	PICS 1/1
Test purpose Ensure that the terminating user equipment is able to send an ISDN connected subaddress in the **From** header of the UPDATE			
Preconditions: Originating user is provided with TIP			
SIP header values: INVITE: supported: from-change UPDATE: From: sip: user part; isub=<subaddress>@hostportion			

Comments:

UA C		**SUT**		**UA S**
INVITE (From-change)	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
UPDATE (From)	←		←	UPDATE (From)
200 OK UPDATE	→		→	200 OK UPDATE
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.3 Test purposes for the ISUP/SIP Interworking

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

TP607001	**SUB Reference [5]:** 4.7.4.5.2	**Selection criteria:** PICS 1/4
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The calling party subaddress is mapped in the isub parameter of the From header* Ensure that the calling party subaddress in the ATP parameter of the received IAM is interworked in the isub parameter of the From header in the sent INVITE, if the Type of Subaddress is set to "0 0 0" "NSAP".	
SIP Parameter values:	INVITE: From: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Calling party subaddress)	

Comments:

ISUP		**MGCF**		**SIP**
IAM(ATP)	→		→	INVITE
			←	100 Trying
ACM	←		←	180 Ringing
ANM	←		←	200 OK INVITE
			→	ACK
		Communication		
REL	→		→	BYE
RLC	←		←	200 OK BYE

TP607002	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/4
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The called party subaddress is mapped in the isub parameter of the To header* Ensure that the called party subaddress in the ATP parameter of the received IAM is interworked in the isub parameter of the To header in the sent INVITE, if the Type of Subaddress is set to "0 0 0" "NSAP".	
SIP Parameter values:	INVITE: To: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Called party subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM(ATP) → → INVITE ← 100 Trying ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP607003	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/4
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The isub parameter of the From header in an UPDATE is mapped in the connected subaddress in the ANM* Ensure that the isub parameter in the From header of the received UPDATE is interworked in the Connected subaddress contained in an ATP parameter in the sent ANM, if the IAM was received with oBCi: connected line request. The Type of Subaddress is set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: supported: from-change UPDATE: From: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: oFCi: connected line request ANM: ATP(Connected subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM → → INVITE ← 100 Trying ACM ← ← 180 Ringing ← 200 OK INVITE → ACK ANM(ATP) ← ← UPDATE → 200 OK UPDATE Communication REL → → BYE RLC ← ← 200 OK BYE	

TP607004	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/4
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The calling party subaddress is not mapped in the isub parameter of the From header* Ensure that the calling party subaddress in the ATP parameter of the received IAM is not interworked in the isub parameter of the From header in the sent INVITE, if the Type of Subaddress is not set to "0 0 0" "NSAP".	
SIP Parameter values:	INVITE: No mapping	
ISUP Parameter values:	IAM: ATP(no Calling party subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM(ATP) → → INVITE ← 100 Trying ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP607005	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/4
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The called party subaddress is not mapped in the isub parameter of the To header* Ensure that the called party subaddress in the ATP parameter of the received IAM is not interworked in the isub parameter of the To header in the sent INVITE, if the Type of Subaddress is not set to "0 0 0" "NSAP".	
SIP Parameter values:	INVITE: No mapping	
ISUP Parameter values:	IAM: ATP(no Called party subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM(ATP) → → INVITE ← 100 Trying ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP607006	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/3
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The calling party subaddress is mapped in the isub parameter of the P-Asserted-Identity header* Ensure that the calling party subaddress in the ATP parameter of the received IAM is interworked in the isub parameter of the P-Asserted-Identity header in the sent INVITE, if the Type of Subaddress is set to "0 0 0" "NSAP".	
SIP Parameter values:	INVITE: P-Asserted-Identity: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Calling party subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM(ATP) → → INVITE ← 100 Trying ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP607007	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/3
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The called party subaddress is mapped in the isub parameter of the Request-URI* Ensure that the called party subaddress in the ATP parameter of the received IAM is interworked in the isub parameter of the Request URI in the sent INVITE, if the Type of Subaddress is set to "0 0 0" "NSAP".	
SIP Parameter values:	INVITE: Request-URI: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Called party subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM(ATP) → → INVITE ← 100 Trying ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP607008	SUB Reference [5]: 4.7.4.5.2	Selection criteria: PICS 1/3
TSS reference:	ISUP-SIP/SS/SUB/	
Preconditions:		
Test purpose:	*The isub parameter of the P-Asserted-Identity header in an UPDATE is mapped in the connected subaddress in the ANM* Ensure that the isub parameter in the P-Asserted-Identity header of the received 200 OK (INVITE) is interworked in the Connected subaddress contained in an ATP parameter in the sent ANM, if the IAM was received with oBCi: connected line request. The Type of Subaddress is set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	200 OK (INVITE): **Not mapped**	
ISUP Parameter values:	IAM: oFCi: connected line request ANM: ATP(Connected subaddress)	
Comments:	**ISUP** **MGCF** **SIP** IAM → → INVITE ← 100 Trying ACM ← ← 180 Ringing ANM(ATP) ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

5.3.2 Incoming Call Interworking from SIP to ISUP at I-MGCF

TP508001	SUB Reference [5]: 4.7.4.5.1	Selection criteria: PICS 1/4
TSS reference:	SIP-ISUP/SS/SUB/	
Preconditions:		
Test purpose:	*The isub parameter of the From header in an INVITE is mapped in the calling party subaddress in the IAM* Ensure that the isub parameter in the From header of the received INVITE in interworked in the Calling party subaddress contained in an ATP parameter in the sent IAM. The Type of Subaddress is set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: From: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Calling party subaddress)	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → Communication BYE → → REL 200 OK BYE ← ← RLC	

TP508002	SUB Reference [5]: 4.7.4.5.1	Selection criteria: PICS 1/4
TSS reference:	SIP-ISUP/SS/SUB/	
Preconditions:		
Test purpose:	*The isub parameter of the To header in an INVITE is mapped in the called party subaddress in the IAM* Ensure that the isub parameter in the To header of the received INVITE is interworked in the Calling party subaddress contained in an ATP parameter in the sent IAM. The Type of Subaddress is set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: To: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Called party subaddress)	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → Communication BYE → → REL 200 OK BYE ← ← RLC	

TP508003	SUB Reference [5]: 4.7.4.5.1	Selection criteria: PICS 1/4
TSS reference:	SIP-ISUP/SS/SUB/	
Preconditions:		
Test purpose:	*The connected subaddress in the ANM is mapped in the isub parameter of the P-Asserted-Identity header in the 200 OK INVITE.* Ensure that the connected subaddress contained in an ATP parameter of the received ANM is interworked in the isub parameter in the P-Asserted-Identity header in the sent 200 OK INVITE. The Type of Subaddress was received: "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: supported: from-change 200 OK INVITE: P-Asserted-Identity: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: oFCi: connected line request ANM: ATP(Connected subaddress)	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → Communication BYE → → REL 200 OK BYE ← ← RLC	

TP508004	SUB Reference [5]: 4.7.4.5.1	Selection criteria: PICS 1/4
TSS reference:	SIP-ISUP/SS/SUB/	
Preconditions:		
Test purpose:	*The connected subaddress in the ANM is not mapped in the isub parameter of the P-Asserted-Identity header in the 200 OK INVITE* Ensure that the connected subaddress contained in an ATP parameter of the received ANM is not interworked in the isub parameter in the P-Asserted-Identity in the sent 200 OK INVITE. The Type of Subaddress is not set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: supported: from-change 200 OK INVITE: No mapping	
ISUP Parameter values:	IAM: oFCi: connected line request ANM: ATP(no Connected subaddress)	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → Communication BYE → → REL 200 OK BYE ← ← RLC	

TP508005	SUB Reference [5]: 4.7.4.5.1	Selection criteria: PICS 1/3
TSS reference:	SIP-ISUP/SS/SUB/	
Preconditions:		
Test purpose:	*The isub parameter of the P-Asserted-Identity header in an INVITE is mapped in the calling party subaddress in the IAM* Ensure that the isub parameter in the P-Asserted-Identity header of the received INVITE is interworked in the Calling party subaddress contained in an ATP parameter in the sent IAM. The Type of Subaddress is set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: P-Asserted-Identity: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Calling party subaddress)	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → Communication BYE → → REL 200 OK BYE ← ← RLC	

TP508006	SUB Reference [5]: 4.7.4.5.1	Selection criteria: PICS 1/3
TSS reference:	SIP-ISUP/SS/SUB/	
Preconditions:		
Test purpose:	*The isub parameter of the Request-URI header in an INVITE is mapped in the called party subaddress in the IAM* Ensure that the isub parameter in the Request-URI header of the received INVITE is interworked in the Called party subaddress contained in an ATP parameter in the sent IAM. The Type of Subaddress is set to "0 0 0" "NSAP" (ITU-T Recommendation X.213 [i.3] and ISO/IEC 8348 [i.2]).	
SIP Parameter values:	INVITE: Request-URI: sip: user part; isub=<subaddress>@hostportion	
ISUP Parameter values:	IAM: ATP(Called party subaddress)	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 180 Ringing ← ← ACM 200 OK INVITE ← ← ANM ACK → Communication BYE → → REL 200 OK BYE ← ← RLC	

History

Document history		
V1.0.0	June 2008	Publication