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Technical Specification

Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) Part 2: Test Suite Structure and Test Purposes (TSS&TP)



Reference

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Keywords

TIP, TIR, 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

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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 Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) as identified below:

Part 1: "PICS";

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

The present version updates the references to the basic call specifications.

NOTE: Some new parts will be developed in the future.

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) of the Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) services. Within the TISPAN NGN Release 1 Next Generation Network (NGN) the TS 183 008 [9] Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) PSTN/ISDN simulation services is specified.

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- 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.
- For a non-specific reference, the latest version applies.

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

- [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 EN 300 089: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- [3] ETSI EN 300 090: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".
- [4] IETF RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".
- [5] IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".
- [6] IETF RFC 2396: "Uniform Resource Identifiers (URI): Generic Syntax".
- [7] IETF RFC 3966: "The tel URI for Telephone Numbers".
- [8] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [9] ETSI TS 183 008: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification".
- [10] 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]".
- [11] ITU Recommendation E.164: "The international public telecommunication numbering plan".
- [12] IETF RFC 2806: "URLs for Telephone Calls".
- [13] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

- [14] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [15] ETSI TS 186 005-1: "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) Part 1: PICS".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

abstract test case: Refer to ISO/IEC 9646-1.

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1.

address identity: See Recommendation E.164 or/and RFC 2806.

call: See ITU-T Recommendation Q.9, definition 2201.

dialog: Refer to RFC 3261.

final response: Refer to RFC 3261.

header: Refer to RFC 3261.

header field: Refer to RFC 3261.

identity information: includes all the information (RFC 2806/RFC2396/E.164) identifying a user, including trusted (network generated) and/or untrusted (user generated) addresses

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

implicit send event: Refer to ISO/IEC 9646-3.

lower tester: Refer to ISO/IEC 9646-1.

method: Refer to RFC 3261.

option-tag: Refer to RFC 3261.

PICS proforma: Refer to ISO/IEC 9646-1.

PIXIT proforma: Refer to ISO/IEC 9646-1.

point of control and observation: Refer to ISO/IEC 9646-1.

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1.

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1.

provisional response: Refer to RFC 3261.

proxy, proxy server: Refer to RFC 3261.

request: Refer to RFC 3261.

response: Refer to RFC 3261.

session: Refer to RFC 3261.

(SIP) transaction: Refer to RFC 3261.

system under test: Refer to ISO/IEC 9646-1.

tag: Refer to RFC 3261.

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

trusted identity: network generated user address information

untrusted identity: user generated user address information

voice session: existing voice connection between two terminal equipments

EXAMPLE: Via RTP.

3.2 Abbreviations

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

AS	Application Server
CDIV	Communication Diversion
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CN	Core Network
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
CS	Circuit Switched
CSCF	Call Session Control Function
IM	IP Multimedia
IP	Internet Protocol
ISDN	Integrated Service Data Network
MGCF	Media Gateway Control Function
n/a	not applicable
NGN	Next Generation Network
OIP	Originating Identification Presentation
OIR	Originating Identification Restriction
P-CSCF	Proxy - CSCF
PSTN	Public Switched Telephone Network
SDP	Session Description Protocol
SIP	Session Initiation Protocol
TP	Test Purposes
TSS	Test Suite Structure
UA	User Agent
UAC	User Agent Client
UE	User Equipment
URI	Universal Resource Identifier
URL	Universal Resource Locator

4 Test Suite Structure (TSS)

Syntax		
	Term_P-CSCF TermUserE OrigUserE	TIP_N01_xxx TIP_U01_xxx TIP_U02_xxx
Signaling		
	DestNetw TIR CDIV OrigNetw OtherNetw	TIP_N02_xxx TIP_N03_xxx TIP_N04_xxx TIP_N05_xxx TIP_N06_xxx

Figure 1: Test suite structure

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. "TIP"	
<iut> = type of IUT:		U N	User Network
<group> = group		2 digit field representing group reference according to TSS	
<nnn> = sequential number		(001-999)	

5.2 User TPs for TIP

All PICS items referred to in this clause are as specified in TS 186 005-1 [15] unless indicated otherwise by another numbered reference.

5.2.1 Syntax requirements

5.2.1.1 Terminating P-CSCF

TSS Syntax/Term_P-CSCF	TP TIP_N01_001	TIP/TIR reference 4.4	Selection expression
Test purpose: <i>The P-CSCF sends a P-Asserted-Identity in a response as 'tel' or 'sip' URI in the international format.</i> Ensure that the IUT in order to present the identity of the terminating party upon receipt of a non - 100 response from the terminating user the IUT (P-CSCF) shall send in a non 100 response message defined as SIP_MESSAGE_VA the P-Asserted-Identity header containing valid 'tel' or/and sip URI in the international number format e.g. tel: global number.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for tests purposes TIP_N01_001	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.2.1.2 Terminating user equipment

TSS Syntax/TermUserE	TP TIP_U01_001	TIP/TIR reference Annex A	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format.</i> Ensure that the Terminating UE in order to present a complete called party identity contained in the P-Preferred Identity header sends in a non 100 response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI in the local number format e.g. tel: local number. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_002	TIP/TIR reference 4.4	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the international number format.</i> Ensure that the Terminating UE in order to present a complete called party identity contained in the P-Preferred Identity header sends in a non 100 response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI in the international number format e.g. tel: global number. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_003	TIP/TIR reference 4.4	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; phone context=particular phone prefix.</i> Ensure that the Terminating UE in order to present a complete called party identity contained in the P-Preferred Identity header sends in a non 100 response message defined as SIP_MESSAGE_VA containing a valid 'tel' or/and sip URI in the format: tel: local number ; phone-context= particular phone prefix . The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_004	TIP/TIR reference 4.4	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; phone context=domain name</i> Ensure that the Terminating UE in order to present a complete called party identity contained in the P-Preferred Identity header sends in a non 100 response message defined as SIP_MESSAGE_VA a valid 'tel' URI in the format: tel: local number; phone-context= domain name e.g. tel: 4711; phone-context=example.com. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_005	TIP/TIR reference 4.5	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the global number format; isup=ISDN subaddress.</i> Ensure that the Terminating UE in order to present a complete called party identity contained in the P-Preferred Identity header sends a in a non 100 response message defined as SIP_MESSAGE_VA containing a valid 'tel' URI in the format: tel: global number; isub= ISDN Subadress. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_006	TIP/TIR reference 4.4	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; isup=ISDN subaddress.</i> Ensure that the Terminating UE in order to present a complete calling party identity contained in the P-Preferred Identity header sends a in a non 100 response message defined as SIP_MESSAGE_VA containing a valid 'tel' URI in the format: tel: local number; isub= ISDN Subadress. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_007	TIP/TIR reference 4.4	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; isup=ISDN subaddress; phone context=particular phone prefix.</i> Ensure that the Terminating UE in order to present a complete calling party identity contained in the P-Preferred Identity header sends in a non 100 response message defined as SIP_MESSAGE_VA message containing a valid 'tel' URI in the format: tel: local number ; isub = ISDN Subaddress ; phone-context = particular phone prefix. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_008	TIP/TIR reference 4.4	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; phone context=domain name.</i> Ensure that the Terminating UE in order to present a complete calling party identity contained in the P-Preferred Identity header sends in a non 100 response message defined as SIP_MESSAGE_VA containing a valid 'tel' URI in the format: tel: local number ; phone-context= domain name e.g. tel: 4711 isub = ISDN Subaddress; phone-context=example.com. The P-CSCF removes the P-Preferred Identity header from the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_009	TIP/TIR reference 4.5.2.5	Selection expression PICS 1/2
Test purpose: The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the URI_USER format. Privacy is indicated with Privacy header field value 'id'. Ensure that the Terminating UE to request its identity to be kept private from the originating user shall include a Privacy header with the privacy type of 'id' in any non 100 response message defined as SIP_MESSAGE_VA with a 'tel' and/or sip URI defined as URI_USER.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for test purpose TIP_U01_009	
	URI_USER
VA_1	tel: local number
VA_2	tel: global number
VA_3	tel: local number ; phone-context= particular phone prefix.
VA_4	tel: local number ; phone-context= domainname
VA_5	tel: local number; isub= ISDN Subaddress
VA_6	SIP URI sip:user:password@host:port;uri-parameters?headers
VA_7	sip URI: local number @host:port;uri-parameters?headers
VA_8	sip URI: global number @host:port;uri-parameters?headers
VA_9	Sip URI: local number ; phone-context= particular phone prefix @host:port;uri-parameters?headers

TSS Syntax/TermUserE	TP TIP_U01_010	TIP/TIR reference 4.5.2.5	Selection expression PICS 1/2
Test purpose: <i>The Terminating UE request privacy in a provisional or final response.</i> Ensure that the Terminating UE to keep private is sending the priv value 'id' in any non 100 response message defined as SIP_MESSAGE_VA			
Comments:			
UA C	SUT		UA S
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for tests purposes TIP_U01_001 to TIP_U01_010	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.2.2 Originating user equipment

TSS Syntax/OrigUserE	TP TIP_U02_001	TIP/TIR reference 4.5.2.1	Selection expression PICS 1/1
Test purpose: <i>The originating UE receives a P-Asserted-Identity.</i> Ensure that the Originating UE, receiving any non 100 response message defined as SIP_MESSAGE_VA containing a P-Asserted-Identity header with a valid 'tel' and/or sip URI. accepts the call following the basic request handling procedures.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/OrigUserE	TP TIP_U02_002	TIP/TIR reference 4.5.2.1	Selection expression PICS 1/1
Test purpose: <i>The originating UE receives more than one P-Asserted-Identities</i> Ensure that the Originating UE, receiving any non 100 response message defined as SIP_MESSAGE_VA containing more P-Asserted-Identity heeders with a valid 'tel' and/or sip URI. accepts the call following the basic request handling procedures.			
Comments:			
UA C	SUT		UA S
INVITE	➔		➔ INVITE
SIP_MESSAGE_VA	➔		➔ SIP_MESSAGE_VA
	Conversation		
BYE	➔		➔ BYE
200 OK (BYE)	➔		➔ 200 OK (BYE)

TSS Syntax/OrigUserE	TP TIP_U02_003	TIP/TIR reference 4.5.2.1	Selection expression PICS 1/1
Test purpose: <i>The TIR service applies at the Terminating UE. The Privacy header field value 'id' indicates the service.</i> Ensure that the Originating UE, receiving any non 100 response message defined as SIP_MESSAGE_VA without P-Asserted-Identity headers, but a Privacy header with privacy type of "id" is present, accepts the call following the basic request handling procedures.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Syntax/OrigUserE	TP TIP_U02_004	TIP/TIR reference 4.5.2.1	Selection expression PICS 1/1
Test purpose: <i>Privacy service applies at the Terminating UE. Neither P-Asserted-Identity nor Privacy header received.</i> Ensure that the Originating UE, receiving any non 100 response message defined as SIP_MESSAGE_VA without P-Asserted-Identity headers nor a Privacy header with privacy type of "id" accepts the call following the basic request handling procedures.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for tests purposes TIP_U02_001 to TIP_U02_004	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.3 Signalling procedures

5.3.1 Requirements on the destination network side

TSS Signaling/DestNetw	TP TIP_N02_001	TIP/TIR reference 4.5.2.1; 4.5.2.11	Selection expression
Test purpose: <i>The P-CSCF adds a P-Asserted- Identity header with the same value as saved from the P-Called-Party-ID field in the response without Privacy.</i> Ensure that the IUT acting as terminating P-CSCF, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER without a Privacy header. Includes the identity of the terminating party, in the form of a P-Asserted-Identity header. The contents of the P-Asserted-Identity header shall be the same as the saved P-Called-Party-ID information. Once a 2xx response is received, the P-Asserted-Identity header field of the first 2xx response is used.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for test purposes TIP_N02_001	
	URI_USER
VA_1	tel: local number
VA_2	tel: global number
VA_3	tel: local number ; phone-context= particular phone prefix.
VA_4	tel: local number ; phone-context= domainname
VA_5	tel: local number; isub= ISDN Subadress
VA_6	SIP URI sip:user:password@host:port;uri-parameters?headers
VA_7_	sip URI: local number @host:port;uri-parameters?headers
VA_8	sip URI: global number @host:port;uri-parameters?headers
VA_9	Sip URI: local number ; phone-context= particular phone prefix @host:port;uri-parameters?headers

TSS Signaling/DestNetw	TP TIP_N02_002	TIP/TIR reference 4.5.2.11	Selection expression
Test purpose: <i>The P-CSCF adds a P-Asserted- Identity header with the same value as saved from the P-Called-Party-ID field in the response with Privacy 'none'.</i> Ensure that the IUT acting as terminating P-CSCF, receiving 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' or SIP URI defined as URI_USER with the priv-value component set to "none" includes the identity of the terminating party, in the form of a P-Asserted-Identity header. The contents of the P-Asserted-Identity header shall be the same as the saved P-Called-Party-ID information.			
Precondition: The another SIP based network is a trusted network			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_003	TIP/TIR reference 4.5.2.11	Selection expression
Test purpose: <i>The P-CSCF adds a P-Asserted- Identity header with the same value as saved from the P-Called-Party-ID field in the response with Privacy 'id'.</i> Ensure that the IUT acting as terminating P-CSCF, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER with the priv-value component set to "id " includes the identity of the terminating party, in the form of a P-Asserted-Identity header. The contents of the P-Asserted-Identity header shall be the same as the saved P-Called-Party-ID information.			
Precondition: The another SIP based network is a trusted network			
Comments:			
UA C	SUT	UA S	
INVITE	→	→	INVITE
SIP_MESSAGE_VA	←	←	SIP_MESSAGE_VA
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_005	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/2
Test purpose: <i>The AS inserts the Privacy id value in the response if the response does not contain any Privacy. The user subscribes TIR in permanent mode.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and /or sip URI defined as URI_USER without a Privacy header for a terminating user that subscribes to TIR in "permanent mode" the AS shall insert a Privacy header with privacy type "id".			
Comments:			
UA C	SUT	UA S	
INVITE	→	→	INVITE
SIP_MESSAGE_VA	←	←	SIP_MESSAGE_VA
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_006	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/4
Test purpose: <i>The AS inserts the Privacy id value in the response if the response does not contain any Privacy. The user subscribes TIR temporary mode presentation restricted.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or URI defined as URI_USER with the without a Privacy header for a terminating user that subscribes to TIR in "temporary mode" with default value 'presentation restricted" the AS shall insert a Privacy header with privacy value "id".			
Comments:			
UA C	SUT	UA S	
INVITE	→	→	INVITE
SIP_MESSAGE_VA	←	←	SIP_MESSAGE_VA
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_007	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/3
Test purpose: <i>The AS does not insert the Privacy id value in the response if the response does not contain any Privacy. The user subscribes TIR temporary mode presentation not restricted.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a, 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel'and/or sip URI defined as URI_USER without a Privacy header for an terminating user that subscribes to TIR in temporary mode with default value "presentation not restricted" the AS shall not insert priv value "id".			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_008	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/2
Test purpose: <i>The AS does not insert any Privacy in the response if the response contains the Privacy 'none'. The user subscribes TIR in permanent mode.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER with the priv-value component set to "none" for a terminating user that subscribes to TIR in "permanent mode" the AS shall not insert the priv value "id". The received value is sent.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_009	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/4
Test purpose: <i>The AS does not insert any Privacy in the response if the response contains the Privacy 'none'. The user subscribes TIR in temporary mode presentation restricted.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER with the with the priv-value component set to "none " for an terminating user that subscribes to TIR in "temporary mode" with default value 'presentation restricted" the AS shall not insert the priv value "id". The received value is sent.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_010	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/3
Test purpose: <i>The AS does not insert any Privacy in the response if the response contains the Privacy 'none'. The user subscribes TIR in temporary mode presentation not restricted.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as TEL_URI with the with the priv-value component set to "none "for an terminating user that subscribes to TIR in temporary mode with default value "presentation not restricted" the AS shall not insert a privacy value "id". The received value is sent.			
Precondition: -			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_011	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/2
Test purpose: <i>The AS does not insert any Privacy in the response if the response contains the Privacy 'id'. The user subscribes TIR in permanent mode.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER with the priv-value component set to "id " for an terminating user that subscribes to TIR in "permanent mode" the AS shall not insert the priv value "id". The received value is sent.			
Precondition: The another SIP based network is a trusted network			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_012	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/4
Test purpose: <i>The AS does not insert any Privacy in the response if the response contains the Privacy 'id'. The user subscribes TIR in temporary mode presentation restricted.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER with the priv-value component set to "id "for an terminating user that subscribes to TIR in "temporary mode" with default value 'presentation restricted" the AS shall not insert the priv value "id". The received value is sent.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_013	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/3
Test purpose: <i>The AS does not insert any Privacy in the response if the response contains the Privacy 'id'. The user subscribes TIR in temporary mode presentation not restricted.</i> Ensure that the IUT acting as AS serving the terminating user, receiving a,1xx or 2xx response message defined as SIP_MESSAGE_VA containing a valid 'tel' and/or sip URI defined as URI_USER with the priv-value component set to "id "for an terminating user that subscribes to TIR in temporary mode with default value "presentation not restricted" the AS shall not insert the priv value "id". The received value is sent.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for test purposes TIP_N02_001 to TIP_N02_013	
	URI_USER
VA_1	tel: local number
VA_2	tel: global number
VA_3	tel: local number ; phone-context= particular phone prefix.
VA_4	tel: local number ; phone-context= domainname
VA_5	tel: local number; isub= ISDN Subadress
VA_6	SIP URI sip:user:password@host:port;uri-parameters?headers
VA_7	sip URI: local number @host:port;uri-parameters?headers
VA_8	sip URI: global number @host:port;uri-parameters?headers
VA_9	Sip URI: local number ; phone-context= particular phone prefix @host:port;uri-parameters?headers

Values for tests purposes TIP_N02_001 to TIP_N02_013	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.3.2 Terminating Identification Restriction (TIR)

TSS Signaling/TIR	TP TIP_N03_001	TIP/TIR reference 4.6.3	Selection expression PICS 2/5
Test purpose: <i>TIR, the origination user has override category</i> Ensure that the IUT can take precedence over the TIR service when the originating user has an override category.			
Precondition: "TIR override"			
Comments:			
UA C	SUT		UA S
INVITE	→	→	INVITE
SIP_MESSAGE_VA	←	←	SIP_MESSAGE_VA
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

Values for tests purposes TIP_N03_001	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.3.3 Communication diversion services

TSS Signaling/CDIV	TP TIP_N04_002	TIP/TIR reference 4.6.8	Selection expression PICS 3/1
Test purpose: <i>The Originating UE does not receive diverting notification and does not receive terminating user information according the option the originating user is not notified.</i> Ensure that if the served (diverting) user selects the option that the originating user is not notified of communication diversion, then the originating user shall receive no diversion notification. In addition, the originating user shall not receive the terminating user's identity in any response to the request, unless the originating user has override capability.			
Comments:			
UA C	SUT	UA S	
INVITE	➔		
181 Call is being forwarded	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/CDIV	TP TIP_N04_003	TIP/TIR reference 4.6.8	Selection expression PICS 3/1 AND PICS 2/5
Test purpose: <i>The originating user receives all terminating user information due to override category.</i> Ensure that if the served (diverting) user selects the option that the originating user is not notified of communication diversion, then the originating user shall receive no diversion notification. In addition, the originating user shall receive the terminating user's identity in any response to the request. The originating user has override capability; the originating user receives the terminating user identity.			
Precondition: -			
Comments:			
UA C	SUT	UA S	
INVITE	→		
181 Call is being forwarded	←	→	INVITE
SIP_MESSAGE_VA	←	←	SIP_MESSAGE_VA
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

TSS Signaling/CDIV	TP TIP_N04_004	TIP/TIR reference 4.6.8	Selection expression PICS 3/2
Test purpose: <i>The originating user receives diversion notification without terminating user identity.</i> Ensure that if the served (diverting) user selects the option that the originating user is notified , but without the diverted-to user identity , then the originating user shall not receive any non 100 response message defined as SIP_MESSAGE_VA with the terminating user's identity when the call is answered.			
Comments:			
UA C	SUT	UA S	
INVITE	➔		
181 Call is being forwarded	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/CDIV	TP TIP_N04_005	TIP/TIR reference 4.6.8	Selection expression PICS 3/1 AND PICS 2/5
Test purpose: <i>The originating user receives diversion notification and the terminating user identity due to override category.</i> Ensure that if the served (diverting) user selects the option that the originating user is notified , but without the diverted-to user identity, then the originating user shall receive any non 100 response message defined as SIP_MESSAGE_VA with the terminating user's identity when the call is answered. The originating user has override capability; the originating user receives the terminating user identity.			
Precondition: -			
Comments:			
UA C	SUT	UA S	
INVITE	→		
181 Call is being forwarded	←	→	INVITE
SIP_MESSAGE_VA	←	←	SIP_MESSAGE_VA
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

Values for tests purposes TIP_N04_001 to TIP_N04_018	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.3.4 Requirements on the originating network side

TSS Signaling/OrigNetw	TP TIP_N05_001	TIP/TIR reference 4.3.2	Selection expression PICS 2/1
Test purpose: <i>The originating user receives the terminating user identity due to TIR service.</i> Ensure that for originating users that subscribe to TIP, if network provided identity information about the terminator is available, and if presentation is not restricted, the network shall include that information in any non 100 response message defined as SIP_MESSAGE_VA.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/OrigNetw	TP TIP_N05_002	TIP/TIR reference 4.3.2; 4.5.2.1	Selection expression PICS 2/1
Test purpose: <i>The originating user does not receive the terminating user identity due to the TIR service subscribed by the terminating user.</i> Ensure that if the presentation of the network asserted identity is restricted due to the TIR supplementary service, then the originating user shall receive an indication that the network provided identity was not sent because of restriction in any non 100 response message defined as SIP_MESSAGE_VA.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/OrigNetw	TP TIP_N05_003	TIP/TIR reference 4.3.2; 4.5.2.1	Selection expression PICS 2/1
Test purpose: <i>The originating user does not receive the terminating due to it was not available</i> Ensure that if the network asserted identity is not available at the originating network (for reasons such as interworking), then the network shall indicate to the terminating user that the network asserted identity was not included for reasons other than restriction in any non 100 response message defined as SIP_MESSAGE_VA.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/OrigNetw	TP TIP_N05_004	TIP/TIR reference 4.5.2.4	Selection expression NOT PICS 2/1
Test purpose: <i>The originating user does not subscribe to the TIR service. No terminating user identity is received.</i> Ensure that the originating user does not subscribe to the TIP simulation service then the network shall removes any P-Asserted-Identity header fields or Privacy header fields included in the SIP response defined as SIP_MESSAGE_VA.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for tests purposes TIP_N05_001 to TIP_N05_003	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

5.3.5 Requirements on the interconnection with other IP network

TSS Signaling/OtherNetw	TP TIP_N06_001	TIP/TIR reference 4.5.2.7	Selection expression PICS 1/3
Test purpose: <i>Interworking with a trusted network; receiving</i> Ensure that a SIP response defined as SIP_MESSAGE_VA including P-Asserted-Identity header fields from a trusted network is received the outgoing IBCF shall remain the P-Asserted-Identity header fields without changes received in the response.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/OtherNetw	TP TIP_N06_002	TIP/TIR reference 4.5.2.7	Selection expression PICS 1/4
Test purpose: <i>Interworking with an un-trusted network; receiving</i> Ensure that a SIP response defined as SIP_MESSAGE_VA including P-Asserted-Identity header fields from a un-trusted network is received the outgoing IBCF shall remove the P-Asserted-Identity header fields received in the response if they are restricted.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/OtherNetw	TP TIP_N06_003	TIP/TIR reference 4.5.2.8	Selection expression PICS 1/3
Test purpose: <i>Interworking with a trusted network; sending</i> Ensure that a communication is established with a-trusted network and P-Asserted-Identity header fields are included in SIP responses defined as SIP_MESSAGE_VA the incoming IBCF shall remain the P-Asserted-Identity header fields without changes received in the response message.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
	Conversation		
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

TSS Signaling/OtherNetw	TP TIP_N06_004	TIP/TIR reference 4.5.2.8	Selection expression PICS 1/4
Test purpose: <i>Interworking with an un-trusted network; sending</i> Ensure that a communication is established with an un-trusted network and P-Asserted-Identity header fields are included in SIP responses defined as SIP_MESSAGE_VA the incoming IBCF shall remove the P-Asserted-Identity header fields from the SIP response before sending the SIP response message to the un-trusted network.			
Comments:			
UA C	SUT	UA S	
INVITE	➔	➔	INVITE
SIP_MESSAGE_VA	➔	➔	SIP_MESSAGE_VA
Conversation			
BYE	➔	➔	BYE
200 OK (BYE)	➔	➔	200 OK (BYE)

Values for tests purposes TIP_N06_001 to TIP_N06_004	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

6 Compliance

An ATS which complies with this TSS&TP specification shall:

- a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 5;
- b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 4;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 5 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;
- e) comply with ISO/IEC 9646-2.

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 5 shall be included in a compliant ATS.

Annex A (normative): Test purposes for the ISUP/SIP Interworking

A.1 Interworking from ISUP to SIP (Outgoing Call)

A.1.1 Connected Line Identification Presentation (COLP)

TP101001		ISUP reference: [10] clause 7.4.2.2																																																							
TSS reference:	ISUP-SIP/SS/COLP																																																								
ISUP selection criteria:	NOT OutIntE																																																								
Test purpose:	<p>Ensure that the SUT in Idle state, on receipt of an IAM message where the COLP service has been requested by the calling party by parsing the „Optional Forward Call Indicators' field and the "Connected Line Identity Request indicator" is set to "requested", on receipt of a 1XX or 2XX message defined as SIP_MESSAGE_VA with</p> <p>the P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and the no Privacy header field was received or a Privacy header field was received and the priv-value is set to "none"</p> <p>in the ANM or CON is included the Connected number Parameter. 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</p> <p>Address presentation restricted parameter = presentation allowed Nature of address indicator = National (significant) number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = Network Provided Address signals in the format: NDC+SN</p> <p>Generic number parameter not present</p>																																																								
SIP Parameter values:	1XX or 2XX response: P-Asserted-Identity header field Tel URL containing an URI in the format '+CC+NDC+SN																																																								
ISUP Parameter values:	IAM: Optional Forward Call Indicators, Connected Line Identity Request indicator" = "requested" ANM; Connected number parameter Address presentation restricted parameter = '00'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = '11'B Address signals = PIXIT																																																								
Comments:	<table><tr><td>ISUP</td><td></td><td>MGCF</td><td></td><td>SIP</td></tr><tr><td>IAM</td><td>→</td><td></td><td>→</td><td>INVITE</td></tr><tr><td></td><td></td><td></td><td>←</td><td>SIP_MESSAGE_VA</td></tr><tr><td>CASE A</td><td></td><td></td><td></td><td></td></tr><tr><td>ACM</td><td>←</td><td></td><td></td><td></td></tr><tr><td>ANM</td><td>←</td><td></td><td></td><td></td></tr><tr><td>CASE B</td><td></td><td></td><td></td><td></td></tr><tr><td>CON</td><td>←</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>Conversation</td><td></td><td></td></tr><tr><td>REL</td><td>→</td><td></td><td>→</td><td>BYE</td></tr><tr><td>RLC</td><td>←</td><td></td><td>←</td><td>200 OK BYE</td></tr></table>		ISUP		MGCF		SIP	IAM	→		→	INVITE				←	SIP_MESSAGE_VA	CASE A					ACM	←				ANM	←				CASE B					CON	←						Conversation			REL	→		→	BYE	RLC	←		←	200 OK BYE
ISUP		MGCF		SIP																																																					
IAM	→		→	INVITE																																																					
			←	SIP_MESSAGE_VA																																																					
CASE A																																																									
ACM	←																																																								
ANM	←																																																								
CASE B																																																									
CON	←																																																								
		Conversation																																																							
REL	→		→	BYE																																																					
RLC	←		←	200 OK BYE																																																					

TP101002		ISUP reference: [10] clause 7.4.2.2																																																							
TSS reference:	ISUP-SIP/SS/COLP																																																								
ISUP selection criteria:	OutIntE																																																								
Test purpose:	<p>Ensure that the SUT in Idle state, on receipt of an IAM message where the COLP service has been requested by the calling party by parsing the „Optional Forward Call Indicators' field and the "Connected Line Identity Request indicator" is set to "requested", on receipt of a 1XX or 2XX message defined as SIP_MESSAGE_VA with</p> <p>the P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and the no Privacy header field was received or a Privacy header field was received and the priv-value is set to "none"</p> <p>in the ANM or CON is included the Connected number Parameter. If CC encoded in the URI is no equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then</p> <p>Address presentation restricted parameter = Presentation allowed Nature of address indicator = International number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = Network Provided Address signals in the format: CC+NDC+SN</p> <p>Generic number parameter not present</p>																																																								
SIP Parameter values:	1XX or 2XX response: P-Asserted-Identity header field Tel URL containing an URI in the format '+'CC+NDC+SN																																																								
ISUP Parameter values:	IAM: Optional Forward Call Indicators, Connected Line Identity Request indicator" = "requested" ANM; Connected number parameter Address presentation restricted parameter = '00'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = '11'B Address signals = PIXIT																																																								
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TP101003		ISUP reference: [10] clause 7.4.2.2																																																								
TSS reference:	ISUP-SIP/SS/COLP																																																									
ISUP selection criteria:	OutIntE																																																									
Test purpose:	<p>Ensure that the SUT in Idle state, on receipt of an IAM message where the COLP service has been requested by the calling party by parsing the „Optional Forward Call Indicators' field and the "Connected Line Identity Request indicator" is set to "requested", on receipt of a 1XX or 2XX message defined as SIP_MESSAGE_VA with</p> <p>no P-Asserted-Identity header field</p> <p>In the ANM or CON is included the Connected number Parameter.</p> <p>Address presentation restricted parameter = Address not available Screening indicator = Network Provided Address signals omitted</p> <p>Generic number parameter not present</p>																																																									
SIP Parameter values:	1XX or 2XX response: P-Asserted-Identity header field Tel URL containing an URI in the format '+CC+NDC+SN																																																									
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RLC	←		←	200 OK BYE																																																						

Values for tests purposes TP101001 to TP101003	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

A.1.2 Connected Line Identification Restriction (COLR)

TP102001		ISUP reference: [10] clause 7.4.2.2																																																							
TSS reference:	ISUP-SIP/SS/COLP																																																								
ISUP selection criteria:	NOT OutIntE																																																								
Test purpose:	<p>Ensure that the SUT in Idle state, on receipt of an IAM message where the COLP service has been requested by the calling party by parsing the „Optional Forward Call Indicators' field and the "Connected Line Identity Request indicator" is set to "requested", on receipt of a 1XX or 2XX message defined as SIP_MESSAGE_VA with</p> <p>the P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and the a Privacy header field was received and the priv-value is set to PRIV_VALUE</p> <p>in the ANM or CON is included the Connected number Parameter. 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</p> <p>Address presentation restricted parameter = Presentation restricted Nature of address indicator = National (significant) number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = Network Provided Address signals in the format: NDC+SN</p> <p>Generic number parameter not present</p>																																																								
SIP Parameter values:	1XX or 2XX response: P-Asserted-Identity header field Tel URL containing an URI in the format '+CC+NDC+SN																																																								
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ISUP		MGCF		SIP																																																					
IAM	→		→	INVITE																																																					
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REL	→		→	BYE																																																					
RLC	←		←	200 OK BYE																																																					

TP102002		ISUP reference: [10] clause 7.4.2.2																																																							
TSS reference:	ISUP-SIP/SS/COLP																																																								
ISUP selection criteria:	OutIntE																																																								
Test purpose:	<p>Ensure that the SUT in Idle state, on receipt of an IAM message where the COLP service has been requested by the calling party by parsing the „Optional Forward Call Indicators' field and the "Connected Line Identity Request indicator" is set to "requested", on receipt of a 1XX or 2XX message defined as SIP_MESSAGE_VA with</p> <p>the P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and the a Privacy header field was received and the priv-value is set to PRIV_VALUE</p> <p>in the ANM or CON is included the Connected number Parameter. If CC encoded in the URI is no equal to the CC of the country where MGCF is located AND the next BICC/ISUP node is located in the same country then</p> <p>Address presentation restricted parameter = Presentation restricted Nature of address indicator = International number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = Network Provided Address signals in the format: CC+NDC+SN</p> <p>Generic number parameter not present</p>																																																								
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ISUP		MGCF		SIP																																																					
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REL	→		→	BYE																																																					
RLC	←		←	200 OK BYE																																																					

Values for tests purposes TP102001 to TP102003	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

Values for test purpose TP102001 to TP102002	
VA	PRIV_VALUE
VA_1	Id
VA_2	User
VA_3	Header

A.2 Interworking from SIP to ISUP (Incoming Call)

A.2.1 Connected Line Identification Presentation (COLP)

TP103001		ISUP reference: [10] clause 7.4.2.1	
TSS reference:	SIP-ISUP/SS/COLP		
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded Address presentation restricted parameter = presentation allowed Nature of address indicator = national number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: NDC+SN</p> <p>and without the Generic number parameter,</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and Add CC (of the country where the MGCF is located) to Connected PN address signals to construct E.164 number in URI. Prefix number with '+'. </p>		
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+'CC+NDC+SN		
ISUP Parameter values:	ANM; Connected number parameter Address presentation restricted parameter = '00'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter not present		
Comments:	SIP INVITE 180 Ringing 200 OK INVITE ACK BYE 200 OK BYE	MGCF Conversation	ISUP IAM ACM ANM REL RLC

TP103002		ISUP reference: [10] clause 7.4.2.1
TSS reference:	SIP-ISUP/SS/COLP	
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded Address presentation restricted parameter = presentation allowed Nature of address indicator = international number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: CC+NDC+SN</p> <p>and without the Generic number parameter,</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and the no Privacy header field is sent or the priv-value component is set to "none".</p>	
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+'CC+NDC+SN	

TP103002		ISUP reference: [10] clause 7.4.2.1	
ISUP Parameter values:	ANM; Connected number parameter Address presentation restricted parameter = '00'B Nature of address indicator = '0000100'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter not present		
Comments:	SIP INVITE 180 Ringing 200 OK INVITE ACK BYE 200 OK BYE	MGCF Conversation 	ISUP IAM ACM ANM REL RLC

TP103003		ISUP reference: [10] clause 7.4.2.1
TSS reference:	SIP-ISUP/SS/COLP	
Test purpose:	Ensure that the SUT, on receipt of an ANM message with a: Connected number parameter coded Address presentation restricted parameter = presentation allowed Nature of address indicator = national number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: NDC+SN Generic number parameter , Number Qualifier Indicator " <i>Additional connected number</i> " Address presentation restricted parameter = presentation allowed Nature of address indicator = national number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = user provided, not verified Address signals = NDC+SN sends a 200 OK INVITE to the UAC with a: P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and Add CC (of the country where the MGCF is located) to Connected PN address signals to construct E.164 number in URI. Prefix number with '+'. The additional connected number is not interworked	
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+'CC+NDC+SN	
ISUP Parameter values:	ANM; Connected number parameter Address presentation restricted parameter = '00'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter Number Qualifier Indicator "00000101"B Address presentation restricted parameter = '00'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = '00'B Address signals = PIXIT	

TP103003		ISUP reference: [10] clause 7.4.2.1
Comments:	<p>SIP</p> <p>INVITE → MGCF → ISUP</p> <p>180 Ringing ← ← ACM</p> <p>200 OK INVITE ← ← ANM</p> <p>ACK →</p> <p>Conversation</p> <p>BYE → REL</p> <p>200 OK BYE ← RLC</p>	

TP103004		ISUP reference: [10] clause 7.4.2.1
TSS reference:	SIP-ISUP/SS/COLP	
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded</p> <p>Address presentation restricted parameter = presentation allowed</p> <p>Nature of address indicator = international number</p> <p>Numbering plan indicator = ISDN/Telephony numbering plan</p> <p>Screening indicator = ISUP_SI</p> <p>Address signals in the format: CC+NDC+SN</p> <p>Generic number parameter,</p> <p>Number Qualifier Indicator "Additional connected number"</p> <p>Address presentation restricted parameter = presentation allowed</p> <p>Nature of address indicator = international number</p> <p>Numbering plan indicator = ISDN/Telephony numbering plan</p> <p>Screening indicator = user provided, not verified</p> <p>Address signals = CC+NDC+SN</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+NDC+ SN has been received and the</p> <p>The additional connected number is not interworked</p>	
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+' CC+NDC+SN	
ISUP Parameter values:	<p>ANM;</p> <p>Connected number parameter</p> <p>Address presentation restricted parameter = '00'B</p> <p>Nature of address indicator = "0000100'B</p> <p>Numbering plan indicator = '001'B</p> <p>Screening indicator = ISUP_SI</p> <p>Address signals = PIXIT</p> <p>Generic number parameter</p> <p>Number Qualifier Indicator "00000101"B</p> <p>Address presentation restricted parameter = '00'B</p> <p>Nature of address indicator = '0000100'B</p> <p>Numbering plan indicator = '001'B</p> <p>Screening indicator = '00'B</p> <p>Address signals = PIXIT</p>	
Comments:	<p>SIP</p> <p>INVITE → MGCF → ISUP</p> <p>180 Ringing ← ← ACM</p> <p>200 OK INVITE ← ← ANM</p> <p>ACK →</p> <p>Conversation</p> <p>BYE → REL</p> <p>200 OK BYE ← RLC</p>	

Values for test purposes TP102001-TP102006	
VA_01	ISUP_SI = user provided verified and passed, '01'B
VA_02	ISUP_SI = network provided, '11'B

A.2.2 Connected Line Identification Restriction (COLR)

TP104001		ISUP reference: [10] clause 7.4.2.1	
TSS reference:	SIP-ISUP/SS/COLP		
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded Address presentation restricted parameter = presentation restricted Nature of address indicator = national number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: NDC+SN</p> <p>and without the Generic number parameter,</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+ NDC+ SN has been received and Add CC (of the country where the MGCF is located) to Connected PN address signals to construct E.164 number in URI. Prefix number with '+'. a Privacy header is inserted with the value 'id' or the value 'id' is added to a existence Privacy header</p>		
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+'CC+NDC+SN		
ISUP Parameter values:	ANM; Connected number parameter Address presentation restricted parameter = '01'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter not present		
Comments:	SIP INVITE 180 Ringing 200 OK INVITE ACK BYE 200 OK BYE	MGCF Conversation	ISUP IAM ACM ANM REL RLC

TP104002		ISUP reference: [10] clause 7.4.2.1																																								
TSS reference:	SIP-ISUP/SS/COLP																																									
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded Address presentation restricted parameter = presentation restricted Nature of address indicator = international number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: CC+NDC+SN</p> <p>and without the Generic number parameter,</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+NDC+ SN has been received and the a Privacy header is inserted with the value 'id' or the value 'id' is added to a existence Privacy header</p>																																									
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+CC+NDC+SN																																									
ISUP Parameter values:	<p>ANM; Connected number parameter Address presentation restricted parameter = '01'B Nature of address indicator = '0000100'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter not present</p>																																									
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SIP		MGCF		ISUP																																						
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		Conversation																																								
BYE	→		→	REL																																						
200 OK BYE	←		←	RLC																																						

TP104003		ISUP reference: [10] clause 7.4.2.1
TSS reference:	SIP-ISUP/SS/COLP	
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded Address presentation restricted parameter = presentation restricted Nature of address indicator = national number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: NDC+SN</p> <p>Generic number parameter, Number Qualifier Indicator "<i>Additional connected number</i>" Address presentation restricted parameter = presentation restricted Nature of address indicator = national number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = user provided, not verified Address signals = NDC+SN</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+NDC+ SN has been received and Add CC (of the country where the MGCF is located) to Connected PN address signals to construct E.164 number in URI. Prefix number with '+'. a Privacy header is inserted with the value 'id' or the value 'id' is added to a existence Privacy header</p>	

TP104003		ISUP reference: [10] clause 7.4.2.1	
	The additional connected number is not interworked		
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+CC+NDC+SN		
ISUP Parameter values:	ANM; Connected number parameter Address presentation restricted parameter = '01'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter Number Qualifier Indicator "00000101"B Address presentation restricted parameter = '01'B Nature of address indicator = '0000011'B Numbering plan indicator = '001'B Screening indicator = '00'B Address signals = PIXIT		
Comments:	SIP INVITE 180 Ringing 200 OK INVITE ACK BYE 200 OK BYE	MGCF Conversation	ISUP IAM ACM ANM REL RLC

TP104004		ISUP reference: [10] clause 7.4.2.1
TSS reference:	SIP-ISUP/SS/COLP	
Test purpose:	<p>Ensure that the SUT, on receipt of an ANM message with a:</p> <p>Connected number parameter coded Address presentation restricted parameter = presentation restricted Nature of address indicator = international number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISUP_SI Address signals in the format: CC+NDC+SN</p> <p>Generic number parameter, Number Qualifier Indicator "<i>Additional connected number</i>" Address presentation restricted parameter = presentation restricted Nature of address indicator = international number Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = user provided, not verified Address signals = CC+NDC+SN</p> <p>sends a 200 OK INVITE to the UAC with a:</p> <p>P-Asserted-Identity header field containing a URI with an identity in the format '+' CC+NDC+ SN has been received and the a Privacy header is inserted with the value 'id' or the value 'id' is added to a existence Privacy header The additional connected number is not interworked</p>	
SIP Parameter values:	200 OK INVITE: P-Asserted-Identity header field Tel URL containing an URI in the format '+' CC+NDC+SN	

TP104004		ISUP reference: [10] clause 7.4.2.1																																									
ISUP Parameter values:	ANM; Connected number parameter Address presentation restricted parameter = '01'B Nature of address indicator = "0000100'B Numbering plan indicator = '001'B Screening indicator = ISUP_SI Address signals = PIXIT Generic number parameter Number Qualifier Indicator "00000101"B Address presentation restricted parameter = '001B Nature of address indicator = '0000100'B Numbering plan indicator = '001'B Screening indicator = '00'B Address signals = PIXIT																																										
Comments:	<table><tr><td>SIP</td><td></td><td>MGCF</td><td></td><td>ISUP</td></tr><tr><td>INVITE</td><td>→</td><td></td><td>→</td><td>IAM</td></tr><tr><td>180 Ringing</td><td>←</td><td></td><td>←</td><td>ACM</td></tr><tr><td>200 OK INVITE</td><td>←</td><td></td><td>←</td><td>ANM</td></tr><tr><td>ACK</td><td>→</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>Conversation</td><td></td><td></td></tr><tr><td>BYE</td><td>→</td><td></td><td>→</td><td>REL</td></tr><tr><td>200 OK BYE</td><td>←</td><td></td><td>←</td><td>RLC</td></tr></table>			SIP		MGCF		ISUP	INVITE	→		→	IAM	180 Ringing	←		←	ACM	200 OK INVITE	←		←	ANM	ACK	→						Conversation			BYE	→		→	REL	200 OK BYE	←		←	RLC
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200 OK BYE	←		←	RLC																																							

Values for test purposes TP102001-TP102006	
VA_01	ISUP_SI = user provided verified and passed, '01'B
VA_02	ISUP_SI = network provided, '11'B

Annex B (informative): Bibliography

- ETSI TS 122 228: "Service requirements for the IP multimedia core network subsystem; Stage 1".
- ETSI TS 123 002: "Network architecture".
- ETSI TS 123 003: "Numbering, addressing and identification".
- ETSI TS 123 228: "IP multimedia subsystem; Stage 2".
- ETSI TS 124 229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

History

Document history		
V1.1.1	July 2006	Publication