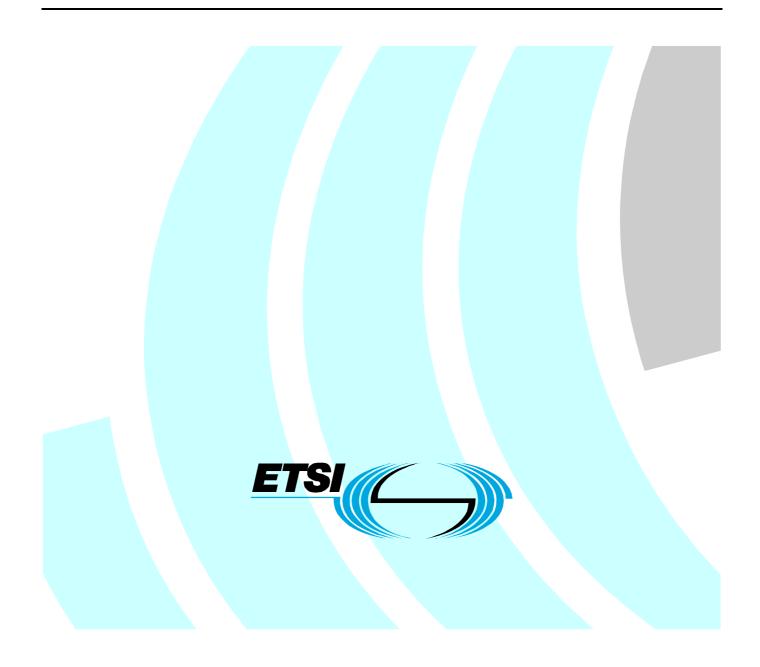# ETSI TS 186 005-2 V2.1.1 (2009-02)

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

RTS/TISPAN-06045-2-NGN-R2

Keywords

TIP, TIR, testing, TSS&TP

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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:   "Protocol Implementation Conformance Statement (PICS)";

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

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

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 [3] 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.

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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]   IETF RFC 2396: "Uniform Resource Identifiers (URI): Generic Syntax".

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

[3]   ETSI TS 183 008 V2.8.0: "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".

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

[5]   IETF RFC 2806: "URLs for Telephone Calls".

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

[7]   ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".

[8]   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: Protocol Implementation Conformance Statement (PICS)".

[9]   ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

[10]   ITU-T Recommendation Q.9: "Vocabulary of switching and signalling terms".

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] ETSI TS 186 009-2: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); SIP-ISUP Interworking between IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched networks; Part 2: Test Suite Structure and Test Purposes (TSS&TP)".

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 [6].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [6].

address identity: See Recommendation E.164 or/and RFC 2806 [5].

call: See ITU-T Recommendation Q.9 [10], definition 2201.

dialog: Refer to RFC 3261 [2].

final response: Refer to RFC 3261 [2].

header: Refer to RFC 3261 [2].

header field: Refer to RFC 3261 [2].

identity information: includes all the information (RFC 2806 [5]/RFC 2396 [1]/E.164 [4]) identifying a user, including trusted (network generated) and/or untrusted (user generated) addresses

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [6].

implicit send event: Refer to ISO/IEC 9646-3 [7].

lower tester: Refer to ISO/IEC 9646-1 [6].

method: Refer to RFC 3261 [2].

option-tag: Refer to RFC 3261 [2].

PICS proforma: Refer to ISO/IEC 9646-1 [6].

PIXIT proforma: Refer to ISO/IEC 9646-1 [6].

point of control and observation: Refer to ISO/IEC 9646-1 [6].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [6].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [6].

provisional response: Refer to RFC 3261 [2].

proxy, proxy server: Refer to RFC 3261 [2].

request: Refer to RFC 3261 [2].

response: Refer to RFC 3261 [2].

session: Refer to RFC 3261 [2].

(SIP) transaction: Refer to RFC 3261 [2].

system under test: Refer to ISO/IEC 9646-1 [6].

tag: Refer to RFC 3261 [2].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [6].

trusted identity: network generated user address information

untrusted identity: user generated user address information

voice session: existing voice connection between two terminal equipments

NOTE: example via RTP.

3.2 Abbreviations

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

AS	Application Server
ATM	Abstract Test Method
ATS	Abstract Test Suite
CDIV	Communication Diversion
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CN	Core Network
CSCF	Call Session Control Function
IM	IP Multimedia
IP	Internet Protocol
ISDN	Integrated Service Data Network
NGN	Next Generation Network
P-CSCF	Proxy - CSCF
PSTN	Public Switched Telephone Network
RTP	Real time Transport Protocol
SDP	Session Description Protocol
SIP	Session Initiation Protocol
TP	Test Purposes
TSS	Test Suite Structure
UA	User Agent
UE	User Equipment
URI	Universal Resource Identifier

4 Test Suite Structure (TSS)

Syntax		
	Term_P-CSCF	**TIP_N01_xxx**
	TermUserE	**TIP_U01_xxx**
	OrigUserE	**TIP_U02_xxx**
Signaling		
	DestNetw	**TIP_N02_xxx**
	TIR	**TIP_N03_xxx**
	CDIV	**TIP_N04_xxx**
	OrigNetw	**TIP_N05_xxx**
	OtherNetw	**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**	**User**
	N	**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 [8] 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: *The P-CSCF sends a P-Asserted-Identity in a response as 'tel' or 'sip' URI in the international format.* 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: *The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format.* 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.			

Comments:

Test equipment		SUT		User equipment
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: *The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the international number format.* 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.			

Comments:

Test equipment		SUT		User equipment
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: *The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; phone context=particular phone prefox.* 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**.			

Comments:

Test equipment		SUT		User equipment
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:

The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; phone context=domain name

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.

Comments: **Test equipment**		**SUT**		**User equipment**

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:

The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the global number format; isup=ISDN subaddress.

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.

Comments: **UA C**		**SUT**		**User equipment**

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:

The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; isup=ISDN subaddress.

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.

Comments: **Test equipment**		**SUT**		**User equipment**

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: *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.* 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 Subadress ; **phone-context**= particular phone prefix.			

Comments:

Test equipment		SUT		User equipment
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: *The Terminating UE sends a P-Preferred-Identity as 'tel' or 'sip' URI in the local number format; phone context=domain name.* 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 Subadress; phone-context=example.com.			

Comments:

Test equipment		SUT		User equipment
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:

Test equipment		SUT		User equipment
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 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 Syntax/TermUserE	TP TIP_U01_010	TIP/TIR reference 4.5.2.5	Selection expression PICS 1/2
Test purpose: *The Terminating UE request privacy in a provisional or final response.* 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:

Test equipment		SUT		User equipment
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

TSS Syntax/TermUserE	TP TIP_U01_011	TIP/TIR reference 4.5.2.12	Selection expression PICS 2/6
Test purpose: *The Terminating UE supports the "from-change" tag in the Supported header.* Ensure that the Terminating UE supports the "from-change" tag in the Supported header. If the UE receives a "from-change" tag in a Supported header in an initial INVTE, the UE sends the "from-change" tag in the Supported header in any non 100 response message defined as SIP_MESSAGE_VA			
SIP messages: INVITE: Suppoerted: from-change 18x/200: Suppoerted: from-change			

Comments:

Test equipment		SUT		User equipment
INVITE	→		→	INVITE
SIP_MESSAGE_VA	←		←	SIP_MESSAGE_VA
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_012	TIP/TIR reference 4.5.2.12	Selection expression PICS 2/7
Test purpose: *The Terminating UE sends an UPDATE request with an updated From and To header.* Ensure that the Terminating UE supports the "from-change" tag in the Supported header, the user equipment sends an UPDATE request after the ACK for the 200 OK INVITE was received containing a connected identity in the From header.			
SIP messages: INVITE: Suppoerted: from-change 18x/200: Suppoerted: from-change UPDATE: From <identity user equipment>			
Comments:			

Test equipment		SUT		User equipment
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
UPDATE	←		←	UPDATE
200 OK UPDATE	→		→	200 OK UPDATE
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

TSS Syntax/TermUserE	TP TIP_U01_013	TIP/TIR reference 4.5.2.12	Selection expression
Test purpose: *The Terminating UE overrides a default "Presentation restriction" by sending Privacy "none".* Ensure that the Terminating UE is able to override a default "Presentation restriction" by sending a Privacy header value "none" in any non 100 response message defined as SIP_MESSAGE_VA			
SIP messages: 18x/200: Privacy: "none"			
Comments:			

Test equipment		SUT		User equipment
INVITE	→		→	INVITE
SIP_MESSAGE_VA	←		←	SIP_MESSAGE_VA
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

Values for tests purposes TIP_U01_011 and TIP_U01_013	
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: *The originating UE receives a P-Asserted-Identity.* Ensure that the Originating UE, receiving any non 100 response message defined as SIP_MESSAGE_VA containing a P-Asserted-Identity heeder with a valid 'tel' and/or sip URI accepts the call following the basic request handling procedures.			
Comments:			

User equipment		SUT		Test equipment
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: *The originating UE receives more then one P-Asserted-Identity header* 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:			

User equipment		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: *The TIR service applies at the Terminating UE. The Privacy header field value 'id' indicates the service.* 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		Test equipment
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: *Privacy service applies at the Terminating UE. Neither P-Asserted-Identity nor Privacy header received.* 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:			
User equipment		**SUT**	**Test equipment**
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

TSS Syntax/OrigUserE	TP TIP_U02_005	TIP/TIR reference 4.5.2.1	Selection expression PICS 2/1 AND PICS 2/6
Test purpose: *The originating user is able to send the "from-change" tag in the Supported header in the initial INVITE.* Ensure that the Originating UE is able to send a "from-change" tag in the Supported header in the initial INVITE to indicate the support of the "from change" procedure.			
SIP message: INVITE Supported "from-change"			
Comments:			
User equipment		**SUT**	**Test equipment**
INVITE	→		→ INVITE
180 Ringing	←		← 180 Ringing
200 OK INVITE	←		← 200 OK INVITE
ACK	→		→ ACK
		Conversation	
BYE	→		→ BYE
200 OK (BYE)	←		← 200 OK (BYE)

TSS Syntax/OrigUserE	TP TIP_U02_006	TIP/TIR reference 4.5.2.1	Selection expression PICS 2/1 AND PICS 2/6
Test purpose: *The originating user is able to receive a connected identity in the From header of an UPDATE request.* Ensure that the Originating UE is able to receive a second identity in the From header of an UPDATE request if the UE indicates the support of this procedure by sending the "from-change" tag in the Supported header in the initial INVITE and this identity is passed to the user.			
SIP message: INVITE Supported "from-change" UPDATE From <second identity>			
Comments:			
User equipment		**SUT**	**Test equipment**
INVITE	→		→ INVITE
180 Ringing	←		← 180 Ringing
200 OK INVITE	←		← 200 OK INVITE
ACK	→		→ ACK
UPDATE	←		← UPDATE
200 OK UPDATE	→		→ 200 OK UPDATE
		Conversation	
BYE	→		→ BYE
200 OK (BYE)	←		← 200 OK (BYE)

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: *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.* 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)

TSS Signaling/DestNetw	TP TIP_N02_002	TIP/TIR reference 4.5.2.11	Selection expression
Test purpose: *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'.* 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: *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'.* Ensure that the IUT acting as terminating P-CSCF, receiving a1xx 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: *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.* 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: *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.* 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:

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.
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:

The AS inserts a Privacy "id" in the response if the response contains the Privacy 'none'. The user subscribes TIR in permanent mode.
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 insert the 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_010	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/3

Test purpose:

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.
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:
The AS does not insert any Privacy in the response if the response contains the Privacy 'id'. The user subscribes TIR in permanent mode.
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:
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.
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:
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.
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

TSS Signaling/DestNetw	TP TIP_N02_014	TIP/TIR reference 4.5.2.9	Selection expression PICS 2/2
Test purpose:			
*The AS remove the "from-change" tag from the Supported header. The user subscribes TIR in **permanent mode**.* Ensure that the IUT acting as AS serving the terminating user removes the "from-change" tag from the Supported header in the initial INVITE if the terminating subscribes to the TIR service in "permanent mode".			
SIP messages: INVITE1 Supported: "from-change" INVITE2 Supported without "from-change"			

Comments:

UA C		SUT		UA S
INVITE1	→		→	INVITE2
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_014	TIP/TIR reference 4.5.2.9	Selection expression PICS 1/7 AND PICS 2/8
Test purpose:			
The terminating user is subscribed to the "no screening" special arrangement. Ensure that the IUT pass the the identity in the From header in the received UPDATE if the terminating user subscribes to the "no screening! special arrangement.			
SIP messages: UPDATE1: From <connected user identity> UPDATE2: From <connected user identity>			

Comments:

UA C		SUT		UA S
INVITE1	→		→	INVITE2
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
UPDATE2	←		←	UPDATE1
200 OK UPDATE	→		→	200 OK UPDATE
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

TSS Signaling/DestNetw	TP TIP_N02_014	TIP/TIR reference 4.5.2.9	Selection expression PICS 1/7 AND NOT PICS 2/8
Test purpose: *The terminating user is not subscribed to the "no screening" special arrangement.* Ensure that the IUT attempt to match the information in the From header with the set of registered public user identities for the served user. If no match is found the AS changes the value of the From header in the UPDATE to the public user identity of the served user if the terminating user is not subscribed to the "no screening" special arrangement.			
SIP messages: UPDATE1: From <connected user identity> UPDATE2: From < public user identity >			

Comments:

UA C		SUT		UA S
INVITE1	→		→	INVITE2
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
UPDATE2	←		←	UPDATE1
200 OK UPDATE	→		→	200 OK UPDATE
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

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: *TIR, the origination user has override category* Ensure that the IUT can take precedence over the TIR service when the originating user has an override category. The Privacy header field is removed from the response, the P-Asserted-Identity is sent.			
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 4.6.7	Selection expression PICS 3/1
Test purpose: *The Originating UE does not receive diverting notification and does not receive terminating user information according the option **the originating user is not notified**.* 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			
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/CDIV	TP TIP_N04_003	TIP/TIR reference 4.6.7	Selection expression PICS 3/1 AND PICS 2/5
Test purpose: *The originating user receives all terminating user information due to override category.* 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 4.6.7	Selection expression PICS 3/2
Test purpose: *The originating user receives diversion notification without terminating user identity.* 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.			
SIP messages: 181 no History header included or latest entry a Privacy "history" is escaped SIP_MESSAGE_VA P-Asserted-Identity, Privacy "id"			
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 4.6.7	Selection expression PICS 3/1 AND PICS 2/5
Test purpose: *The originating user receives diversion notification and the terminating user identity due to override category.* 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.			
SIP messages: 181 History-Info header, no Privacy "history" escaped SIP_MESSAGE_VA P-Asserted-Identity, no Privacy "id"			
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_006	TIP/TIR reference 4.6.7	Selection expression PICS 3/1 AND PICS 2/5
Test purpose: *The originating user receives diversion notification negotiation with the terminating user.* Ensure that if the served (diverting) user selects the option that **the originating user is notified**, Negotiation with the terminating user has taken place and a positive indication from the terminating user user has been received in a Privacy value "none".			
SIP messages: 181 History-Info header, no Privacy "history" escaped SIP_MESSAGE_VA P-Asserted-Identity, Privacy "none"			
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_005	
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: *The originating user receives the terminating user identity due to TIR service.* 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: *The originating user does not receive the terminating user identity due to the TIR service subscribed by the terminating user.* 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: *The originating user does not receive the terminating due to it was not available* 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: *The originating user does not subscribe to the TIR service. No terminating user identity is received.* 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

TSS Signaling/OrigNetw	TP TIP_N05_005	TIP/TIR reference 4.5.2.4	Selection expression PICS 2/1
Test purpose: *The originating user subscribes to the TIR service. The "from-change" tag is passed on.* Ensure that the originating user subscribes to the TIP simulation the "from-change" tag received in the Supported header is passed.			
SIP message: NVITE1 Supported "from-change" INVITE2 Supported "from-change"			

Comments:

UA C		SUT		UA S
INVITE1	→		→	INVITE2
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

TSS Signaling/OrigNetw	TP TIP_N05_006	TIP/TIR reference 4.5.2.4	Selection expression PICS 2/1
Test purpose: *The originating user subscribes to the TIR service. The "from-change" tag is not received.* Ensure that the originating user subscribes to the TIP simulation the "from-change" tag is not received in the Supported header. The originating AS includes the "from-change" tag in the Supported header.			
SIP message: NVITE1 Supported "from-change" not included INVITE2 Supported "from-change"			

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Conversation		
BYE	→		→	BYE
200 OK (BYE)	←		←	200 OK (BYE)

TSS Signaling/OrigNetw	TP TIP_N05_007	TIP/TIR reference 4.5.2.4	Selection expression NOT PICS 2/1
Test purpose: *The originating user does not subscribe to the TIR service. The "from-change" tag is removed from the Supported header.* Ensure that, the originating user does not subscribe to the TIP simulation, the "from-change" tag is removed from the Supported header if received.			

Comments:			
UA C	SUT		UA S
INVITE	→	→	INVITE
180 Ringing	←	←	180 Ringing
200 OK INVITE	←	←	200 OK INVITE
ACK	→	→	ACK
	Conversation		
BYE	→	→	BYE
200 OK (BYE)	←	←	200 OK (BYE)

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: *Interworking with a trusted network; receiving* 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: *Interworking with an un-trusted network; receiving* 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: *Interworking with a trusted network; sending* 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: *Interworking with an un-trusted network; sending* 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 [9].

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 (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".

- IETF RFC 3966: "The tel URI for Telephone Numbers".

- 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]".

- IETF RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".

- IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".

History

Document history		
V2.1.1	February 2009	Publication