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Technical Specification

**Technical Committee for IMS Network Testing (INT);
Originating Identification Presentation (OIP)
and Originating Identification Restriction (OIR)
Part 2: Test Suite Structure and Test Purposes (TSS&TP)**



Reference

DTS/INT-00001-2

Keywords

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Foreword

This Technical Specification (TS) has been produced by IMS Network Testing (INT).

The present document is part 2 of a multi-part deliverable covering Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) 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) for the Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) NGN Basic Service, TS 124 407 [1].

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

Within the TISPAN NGN Release 2, 3GPP release 8 Next Generation Network (NGN) the stage 3 description is specified using the IP-Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).

The OIP service provides the terminating party with the possibility to receive a trusted (network-provided) identity of the originating party, and is applicable to all session-based services of the NGN.

The OIR service enables the originating party to prevent presentation of any network-provided identity to the terminating party, and is applicable to all session-based services of the NGN.

2 References

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

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

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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] ETSI TS 124 407: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services; Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Protocol specification (3GPP TS 24.407 Release 8)".
- [2] ETSI TS 102 722-1: "Technical Committee for IMS Network Testing (INT); Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) conformance testing; Part 1: Protocol Implementation Conformance Statement (PICS)".
- [3] IETF RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".
- [4] IETF RFC 2396: "Uniform Resource Identifiers (URI): Generic Syntax".
- [5] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

- [6] IETF RFC 2806: "URLs for Telephone Calls".
- [7] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [8] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [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.1912.5: "Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control protocol or ISDN User Part".

2.2 Informative references

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

- [i.1] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [i.2] ITU-T Recommendation I.210: "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [i.3] ETSI TS 183 007: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Protocol specification".

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 [7].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [7].

address identity: See ITU Recommendation E.164 [5] or/and RFC 2806 [6].

dialog: Refer to RFC 3261 [i.1].

final response: Refer to RFC 3261 [i.1].

header: Refer to RFC 3261 [i.1].

header field: Refer to RFC 3261 [i.1].

entity information: includes all the information identifying a user, including trusted (network generated) and/or untrusted (user generated) addresses

NOTE: See RFC 2806 [6], RFC 2396 [4] and ITU-T Recommendation E.164 [5].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [7].

implicit send event: Refer to ISO/IEC 9646-3 [8].

lower tester: Refer to ISO/IEC 9646-1 [7].

method: Refer to RFC 3261 [i.1].

option-tag: Refer to RFC 3261 [i.1].

originating user: the sender of a SIP request intended to initiate either a dialog (e.g. INVITE, SUBSCRIBE), or a standalone transaction (e.g. OPTIONS, MESSAGE)

outgoing (call): call outgoing from the user side of the interface

PICS proforma: Refer to ISO/IEC 9646-1 [7].

PIXIT proforma: Refer to ISO/IEC 9646-1 [7].

point of control and observation: Refer to ISO/IEC 9646-1 [7].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [7].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [7].

provisional response: Refer to RFC 3261 [i.1].

proxy, proxy server: Refer to RFC 3261 [i.1].

request: Refer to RFC 3261 [i.1].

response: Refer to RFC 3261 [i.1].

session: Refer to RFC 3261 [i.1].

SIP transaction: Refer to RFC 3261 [i.1].

standalone transaction: SIP transaction that is not part of a dialog and does not initiate a dialog

NOTE: An OPTIONS or a MESSAGE request sent outside of a SIP dialog would be considered to be part of a standalone transaction.

supplementary service: See ITU-T Recommendation I.210 [i.2], clause 2.4

system under test: Refer to ISO/IEC 9646-1 [7].

tag: Refer to RFC 3261 [i.1].

test equipment: combination of equipment and procedures that can perform: the derivation of test cases, the selection of test cases, the parameterization of test cases, the execution of test cases; and the production of a conformance log

Test Purpose (TP): Refer to ISO/IEC 9646-1 [7].

terminating user: recipient of a SIP request intended either to initiate a dialog or to initiate either a dialog or a standalone transaction

trusted identity: network generated user address information

untrusted identity: user generated user address information

user equipment: allows a user access to network services

NOTE: For the purpose of 3GPP specifications the interface between the UE and the network is the radio interface. A User Equipment can be subdivided into a number of domains, the domains being separated by reference points. Currently the User Equipment is subdivided into the UICC domain and the ME Domain. The ME Domain can further be subdivided into one or more Mobile Termination (MT) and Terminal Equipment (TE) components showing the connectivity between multiple functional groups.

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
ATM	Abstract Test Method
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CN	Core Network
CS	Circuit Switched
CSCF	Call Session Control Function
IBCF	Interconnection Border Control Function
IM	IP Multimedia
IP	Internet Protocol
ISDN	Integrated Service Data Network
MGCF	Media Gateway Control Function
MT	Mobile Termination
n/a	not applicable
NGN	Next Generation Network
NNI	Network-Network Interface
OIP	Originating Identification Presentation
OIR	Originating Identification Restriction
P-CSCF	Proxy - CSCF
PSTN	Public Switch Telephone Network
S-CSCF	Serving CSCF
SDP	Session Description Protocol
SIP	Session Initiation Protocol
TE	Terminal Equipment
TP	Test Purpose
TSS	Test Suite Structure
UA	User Agent
UE	User Equipment
URI	Universal Resource Identifier

4 Test Suite Structure (TSS)

OriginatingUser			
	CallingUser	SyntaxReq	OIP_U01_xxx
		OrigUser	OIP_U02_xxx
		DestUser	OIP_U03_xxx
Originating_Netw			
	OrigP-CSCF		OIP_N01_xxx
	OrigS-CSCF		OIP_N02_xxx
	AS_OrigUser		OIP_N03_xxx
	NotTrusNetw		OIP_N04_xxx
	AS_TermUser		OIP_N05_xxx

Figure 1: Test suite structure

4.1 Configuration

The scope of the present document is to test the signalling and procedural aspects of the stage 3 requirements as described in [1]. The stage 3 description respects the requirements to several network entities and also to requirements regarding to end devices. Therefore several interfaces (reference points) are addressed to satisfy the test of the different entities.

Therefore to test the appropriate entities the configurations below are applicable:

Testing of the Application Server: This entity is responsible to perform the service. Hence the ISC interface is the appropriate access point. Figure 1 points to this.

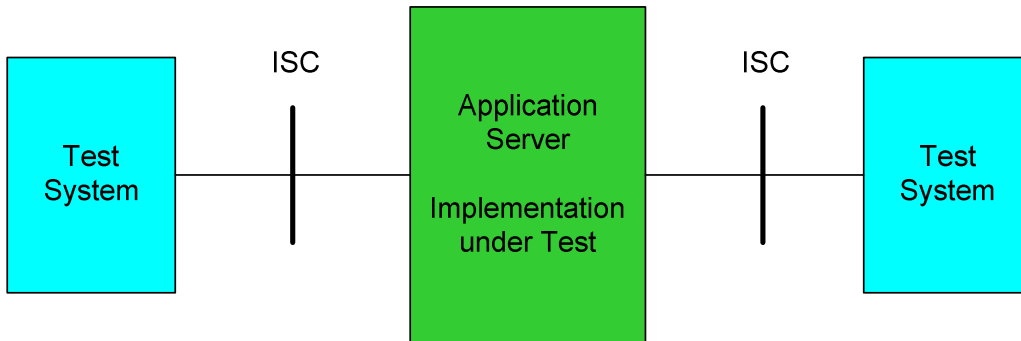


Figure 1: Applicable interface to test AS functionalities

If the ISC interface is not accessible it is also applicable to perform the test of the AS using any NNI (Mw, Mg, Mx) interface (consider figure 2). In case only the Gm interface is accessible this shall be used instead. In this case, be aware that the verification of several requirements is impeded.

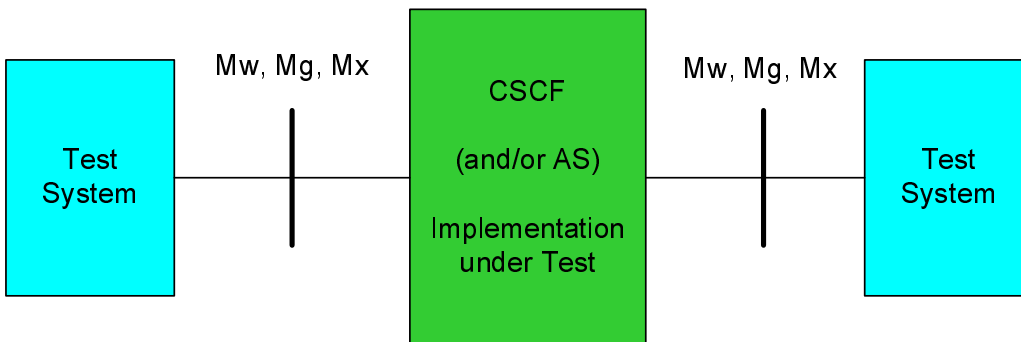


Figure 2: Applicable interfaces to test using the (generic) NNI interface

Figure 3 illustrates the usage of any NNI interface.

Testing of User Equipment: There are several requirements regarding to the end devices. Therefore a special configuration appears.

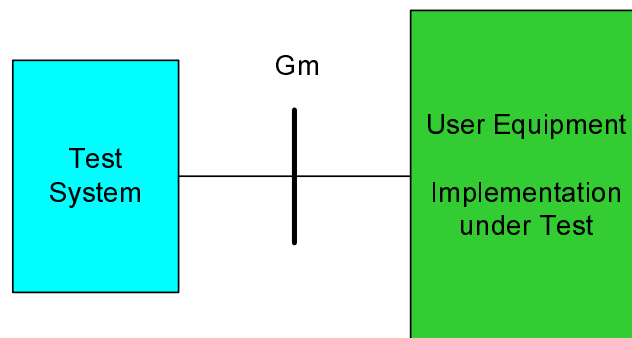


Figure 3: Applicable configuration to test the User Equipment

Testing of the IBCF functionality: The IBCF is the division between the trusted and the untrusted networks.

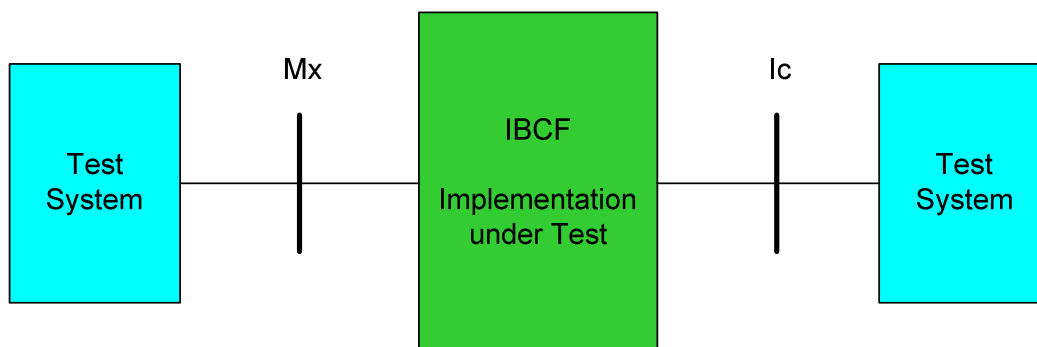


Figure 4: Applicable configuration to test the IBCF

If the Mx interface is not accessible it is also applicable to perform the test of the IBCF using any NNI (Mw, Mg, Mx) interface (consider figure 2). In case only the Gm interface is accessible this shall be used instead. In this case, be aware that the verification of several requirements is impeded.

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

The references applicable in the test Purposes are with respect to the OIP/OIR specification [1], except where explicitly stated otherwise.

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

5.1.2 Test strategy

As the base standard TS 124 407 [1] TS 183 007 [i.3] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 102 722-1 [2]. The criteria applied include the following:

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

5.2 User TPs for OIP

All PICS items referred to in this clause are as specified in TS 102 722-1 [2] unless indicated otherwise by another numbered reference.

5.2.1 Calling user

5.2.1.1 Valid behaviour

5.2.1.1.1 Syntax requirements at the originating user

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_001	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in local number format</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the local number format e.g. tel: local number.			
Comments: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">User Equipment</div> <div style="font-size: 2em;">→</div> <div style="text-align: center;">Test Equipment INVITE</div> </div>			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_002	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in international number format: global number</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the international number format e.g. tel: global number.			
Comments: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">User Equipment</div> <div style="font-size: 2em;">→</div> <div style="text-align: center;">Test Equipment INVITE</div> </div>			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_003	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in local number format: phone-context=particular phone prefix</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number ; phone-context= particular phone prefix.			
Comments: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">User Equipment</div> <div style="font-size: 2em;">→</div> <div style="text-align: center;">Test Equipment INVITE</div> </div>			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_004	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in local number format: phone-context=domain name</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header sends an INVITE message containing a valid 'tel' URI in the format: tel: local number ; phone-context=domain name e.g. tel: 4711; phone-context=example.com.			
Comments: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">User Equipment</div> <div style="font-size: 2em;">→</div> <div style="text-align: center;">Test Equipment INVITE</div> </div>			

TSS Originating_user/Calling_user/SyntaxReq	TP OIP_U01_005	OIP reference clause 4.4	Selection expression PICS 1/1									
Test purpose: <i>The originating UE sends a Tel URI in the global number format: isub=isdn sub address</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the format: tel: global number; isub= ISDN Subadress.												
Comments: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 33%;">UA C</td> <td style="text-align: center; width: 33%;">SUT</td> <td style="text-align: center; width: 33%;">UA S</td> </tr> <tr> <td style="text-align: center;">User Equipment</td> <td style="text-align: center;">→</td> <td style="text-align: center;">Test Equipment</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">INVITE</td> </tr> </table>				UA C	SUT	UA S	User Equipment	→	Test Equipment			INVITE
UA C	SUT	UA S										
User Equipment	→	Test Equipment										
		INVITE										

TSS Originating_user/Calling_user/SyntaxReq	TP OIP_U01_006	OIP reference clause 4.4	Selection expression PICS 1/1						
Test purpose: <i>The originating UE sends a Tel URI in the local number format: isub=isdn sub address</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the format tel: local number ; isub= ISDN Subadress.									
Comments: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">User Equipment</td> <td style="text-align: center; width: 10%;">→</td> <td style="text-align: center; width: 40%;">Test Equipment</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">INVITE</td> </tr> </table>				User Equipment	→	Test Equipment			INVITE
User Equipment	→	Test Equipment							
		INVITE							

TSS Originating_user/Calling_user/SyntaxReq	TP OIP_U01_007	OIP reference clause 4.4	Selection expression PICS 1/1						
Test purpose: <i>The originating UE sends a Tel URI in the local number format: isub=isdn sub address, phone-context=particular phone prefix</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the format tel: local number; isub= ISDN Subadress ; phone-context= particular phone prefix.									
Comments: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">User Equipment</td> <td style="text-align: center; width: 10%;">→</td> <td style="text-align: center; width: 40%;">Test Equipment</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">INVITE</td> </tr> </table>				User Equipment	→	Test Equipment			INVITE
User Equipment	→	Test Equipment							
		INVITE							

TSS Originating_user/Calling_user/SyntaxReq	TP OIP_U01_008	OIP reference clause 4.4	Selection expression PICS 1/1						
Test purpose: <i>The originating UE sends a Tel URI in the local number format: phone context=domain name, isub=isdn sub address</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity header, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number ; phone-context= domaniname e.g. tel: 4711 isub= ISDN Subadress; phone-context=example.com.									
Comments: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">User Equipment</td> <td style="text-align: center; width: 10%;">→</td> <td style="text-align: center; width: 40%;">Test Equipment</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">INVITE</td> </tr> </table>				User Equipment	→	Test Equipment			INVITE
User Equipment	→	Test Equipment							
		INVITE							

TSS Originating_user/Calling_user/SyntaxReq	TP OIP_U01_009	OIP reference clause 4.4	Selection expression PICS 1/1						
Test purpose: <i>The originating UE sends a Tel URI in the From header in the local number format</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the local number format e.g. tel: local number.									
Comments: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">User Equipment</td> <td style="text-align: center; width: 10%;">→</td> <td style="text-align: center; width: 40%;">Test Equipment</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">INVITE</td> </tr> </table>				User Equipment	→	Test Equipment			INVITE
User Equipment	→	Test Equipment							
		INVITE							

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_010	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header in the international number format</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the international number format e.g. tel: global number.			
Comments: User Equipment → Test Equipment INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_011	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header in the local number format; phone-context=particular phone prefix</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number ; phone-context= particular phone prefix.			
Comments: User Equipment → Test Equipment INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_012	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header field; local number format, phone-context=domain name</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number; phone-context= domain name e.g. tel: 4711; phone-context=example.com.			
Comments: User Equipment → Test Equipment INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_013	clause 4.5	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header field; global number format, isub=isdn sub address</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the format: tel: global number ; isub= ISDN Subadress.			
Comments: User Equipment → Test Equipment INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_014	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header field; local number format, isub=isdn sub address</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number; isub= ISDN Subadress.			
Comments: User Equipment → Test Equipment INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_015	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header field ;local number format, isub=isdn sub address, phone-context=particular phone context</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number; isub= ISDN Subaddress; phone-context= particular phone prefix.			
Comments: <div style="display: flex; justify-content: space-between;"> User Equipment → Test Equipment </div> INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/SyntaxReq	OIP_U01_016	clause 4.4	PICS 1/1
Test purpose: <i>The originating UE sends a Tel URI in the From header field ;local number format, isub=isdn sub address, phone-context=domain name</i> Ensure that the IUT in order to present a complete calling user identity contained in the From header field, sends an INVITE message containing a valid 'tel' URI in the format: tel: local number; phone-context= domainname e.g. tel: 4711 isub= ISDN Subaddress; phone-context=example.com.			
Comments: <div style="display: flex; justify-content: space-between;"> User Equipment → Test Equipment </div> INVITE			

5.2.1.1.2 Actions at the originating user

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/OrigUser	OIP_U02_001	clause 4.5.2.1	PICS 1/1
Test purpose: <i>Originating user sends a P-Preferred Identity without Privacy</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity Header with which has been registered, but not indicating the privacy with a priv-value, sends an INVITE message containing a valid 'tel' or 'SIP' URI defined as USER_URI without a Privacy header			
Preconditions: The user registers the public user identity			
Comments: <div style="display: flex; justify-content: space-between;"> User Equipment → Test Equipment </div> INVITE			

TSS	TP	OIP reference	Selection expression
Originating_user/Calling_user/OrigUser	OIP_U02_002	clause 4.5.2.1	PICS 1/1
Test purpose: <i>Originating user sends a P-Preferred Identity and wishes to override the default setting 'Presentation restricted'</i> Ensure that the IUT in order to present a complete calling user identity contained in the P-Preferred Identity Header with which has been registered and the user wishes override the default settings of 'presentation restricted', sends an INVITE message containing a valid 'tel' or 'SIP' URI defined as USER_URI with the priv-value component set to " none ".			
Preconditions: The user registers the public user identity			
Comments: <div style="display: flex; justify-content: space-between;"> User Equipment → Test Equipment </div> INVITE			

TSS Originating_user/Calling_user/OrigUser	TP OIP_U02_003	OIP reference clause 4.5.2.1	Selection expression PICS 1/1
Test purpose: <i>Originating user sends a P-Preferred Identity and an 'anonymous' From header</i> Verify that the IUT sends a INVITE message without P-Preferred Identity Header and includes "anonymous" in the From header. The convention for configuring a anonymous From header described in RFC 3323 [3] and ITU-T Recommendation Q.1912.5 [10] should be followed; i.e. From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag= xxxxxx			
Preconditions: <ul style="list-style-type: none"> The IUT subscribes to OIR in temporary mode The user overrides the default setting of "presentation not restricted": 			
Comments:			
User Equipment		→	Test Equipment INVITE

Table 2

Values for test purposes OIP_U02_001 to OIP_U02_004	
	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= domaniname
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

5.2.1.1.3 Actions at the destination user

TSS Originating_user/Calling_user/DestUser	TP OIP_U03_001	OIP reference 4.5.2.12	Selection expression PICS 1/2
Test purpose: <i>Terminating user receives a P-Asserted identity header field</i> Ensure that the terminating UE, receiving a valid and compatible INVITE message containing any in the P-Asserted-Identity header public user identity defined as URI_USER accepts the call following the basic call procedures.			
Comments:			
Test Equipment INVITE 100 Trying		→ ←	User Equipment

Table 3

Values for test purposes OIP_U03_001	
	USER_URI
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= domaniname
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 Originating_user/Calling_user/DestUser	TP OIP_U03_002	OIP reference 4.5.2.12	Selection expression PICS 1/2
Test purpose: <i>Terminating user receives the From header as tel URI</i> Ensure that the terminating UE, receiving a valid and compatible INVITE message containing any in the From header defined USER_URI accepts the call following the basic call procedures.			
Comments:			
Test Equipment		User Equipment	
INVITE		→	
100 Trying		←	

Table 4

Values for test purposes OIP_U03_002	
	USER_URI
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 Originating_user/Calling_user/DestUser	TP OIP_U03_003	OIP reference 4.5.2.12	Selection expression PICS 1/2
Test purpose: <i>Terminating user receives a From header field set to 'anonymous'</i> Ensure that the terminating UE, receiving a valid and compatible INVITE message without P-Asserted Identity Header and includes " anonymous " in the From header . The convention for configuring a anonymous From header described in RFC 3323 [3] and ITU-T Recommendation Q.1912.5 [10] should be followed; i.e. From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag= xxxxxxxx accepts the call following the basic call procedures.			
Comments:			
Test Equipment		User Equipment	
INVITE		→	
100 Trying		←	

5.2.2 Requirements on the originating network side

5.2.2.1 Actions at the originating P-CSCF

TSS Originating_Netw/OrigP-CSCF	TP OIP_N01_001	OIP reference clauses 4.3.2 and 4.5.2.2	Selection expression
Test purpose: <i>The P-CSCF includes the P-Asserted Identity if the P-Preferred Identity was received</i> Ensure that the IUT, receiving a valid and compatible INVITE message with valid URI defined as URI_USER and P-Preferred Identity Header the SUT shall include URI defined as URI_NETWORK with a P-Asserted-Identity header field in the INVITE message set to that public user identity.			
Preconditions: The P-CSCF receives an initial request for a dialog or a request for a standalone transaction, and the request contains a P-Preferred-Identity header field that matches one of the registered public user identities			
Comments:			
Gm	SUT	Mw	
INVITE	→	→	INVITE
100 Trying	←		

Table 5

PIXIT Values for test purposes OIP_N01_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= domaniname
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

Table 6

PIXIT Values for test purposes OIP_N01_001	
	URI_NETWORK
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= domaniname
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	TP	OIP reference	Selection expression
Originating_Netw/OrigP-CSCF	OIP_N01_002	clauses 4.3.2 and 4.5.2.2	
Test purpose:			
<p>The P-CSCF receives a P-Preferred Identity that not match to the registered public user identities</p> <p>Ensure that the IUT, receiving a valid and compatible INVITE message with a P-Preferred Identity Header and the request contains as P-Preferred-Identity header field that does not match one of the registered public user identities the P-CSCF shall identify the initiator of the request by a default public user identity. In particular, the P-CSCF shall include shall include URI defined as URI_NETWORK with a P-Asserted-Identity header field set to the default public user identity. If there is more than one default public user identity available, the P-CSCF shall randomly select one of them.</p>			
Preconditions: The P-CSCF receives an initial request for a dialog or a request for a standalone transaction, and the request contains as P-Preferred-Identity header field that does not match one of the registered public user identities			
Comments:			
Gm	SUT	Mw	
INVITE	→	→	INVITE
100 Trying	←		

Table 7

PIXIT Values for test purposes OIP_N01_002	
	URI_NETWORK
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= domaniname
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	TP	OIP reference	Selection expression												
Originating_Netw/OrigP-CSCF	OIP_N01_003	clauses 4.3.2 and 4.5.2.2													
Test purpose: <i>The P-CSCF does not receives a P-Preferred Identity header field</i> Ensure that the IUT, receiving a valid and compatible INVITE message and does not contain a P-Preferred-Identity header field the P-CSCF shall identify the initiator of the request by a default public user identity. In particular, the P-CSCF shall include a P-Asserted-Identity header field set to the default public user identity. If there is more then one default public user identity available, the P-CSCF shall randomly select one of them.															
Preconditions: The P-CSCF receives an initial request for a dialog or a request for a standalone transaction, and the request contains as P-Preferred-Identity header field that does not match one of the registered public user identities															
Comments: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Gm</td> <td style="width: 30%; text-align: center;">SUT</td> <td style="width: 30%; text-align: right;">Mw</td> <td style="width: 10%;"></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> </tr> </table>				Gm	SUT	Mw		INVITE	→	→	INVITE	100 Trying	←		
Gm	SUT	Mw													
INVITE	→	→	INVITE												
100 Trying	←														

5.2.2.2 Actions at the S-CSCF serving the originating UE

TSS	TP	OIP reference	Selection expression												
Originating_Netw/OrigS-CSCF	OIP_N02_001	clauses 4.3.2; 4.5.2.3	PICS 1/8												
Test purpose: <i>The S-CSCF add a second P-Asserted Identity Header in the INVITE</i> Ensure that the IUT, receiving a valid and compatible INVITE message with a SIP URI in the P-Asserted-Identity header. In the case where the S-CSCF has knowledge of an associated tel-URI for a SIP URI contained in the P-Asserted-Identity header received in the request, transmits an INVITE message where the S-CSCF shall add a second P-Asserted-Identity header containing this tel-URI.															
Preconditions: S-CSCF has knowledge of an associated tel-URI for a SIP URI															
Comments: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Gm</td> <td style="width: 30%; text-align: center;">SUT</td> <td style="width: 30%; text-align: right;">ISC/Mw</td> <td style="width: 10%;"></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> </tr> </table>				Gm	SUT	ISC/Mw		INVITE	→	→	INVITE	100 Trying	←		
Gm	SUT	ISC/Mw													
INVITE	→	→	INVITE												
100 Trying	←														

5.2.2.3 Actions at the AS serving the originating user

TSS	TP	OIP reference	Selection expression												
Originating_Netw/AS_OrigUser	OIP_N03_001	clauses 4.5.2.4	PICS 2/2												
Test purpose: <i>The AS includes a Privacy header field in permanent mode</i> Ensure that the IUT in order to present a complete calling user identity, but not indicating the privacy with a priv-value, transmits an INVITE message with the received P-Asserted-Identity header and includes a Privacy "id" or "header" based on the subscription option permanent mode.															
Preconditions: The originating user has subscribed to the OIR service in the permanent mode															
Comments: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">ISC</td> <td style="width: 30%; text-align: center;">SUT</td> <td style="width: 30%; text-align: right;">ISC</td> <td style="width: 10%;"></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> </tr> </table>				ISC	SUT	ISC		INVITE	→	→	INVITE	100 Trying	←		
ISC	SUT	ISC													
INVITE	→	→	INVITE												
100 Trying	←														

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_002	clauses 4.5.2.4	PICS 2/4
Test purpose: <i>The AS includes a Privacy header field in temporary mode, restricted</i> Ensure that the IUT in order to present a complete calling user identity, but not indicating the privacy with a priv-value, transmits an INVITE message with the received P-Asserted-Identity header and includes a Privacy "id" or "header" based on the subscription option temporary mode, restricted.			
Preconditions: The originating user has subscribed to the OIR service in the temporary mode with default presentation restricted			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_003	clauses 4.5.2.4	PICS 2/2
Test purpose: <i>The AS does not add a privacy value if the Privacy id was received in permanent mode</i> Ensure that the IUT in order to present a complete calling user identity, indicating the privacy with a priv-value "id", transmits an INVITE message with the received P-Asserted -Identity header without adding a Privacy value. The received Privacy value is sent based on the subscription option permanent mode.			
Preconditions: The originating user has subscribed to the OIR service in the permanent mode			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_004	clauses 4.5.2.4	PICS 2/4
Test purpose: <i>The AS does not add a privacy value if the Privacy id was received in temporary mode, restricted</i> Ensure that the IUT in order to present a complete calling user identity, indicating the privacy with a priv-value "id", transmits an INVITE message with the received P-Asserted -Identity header without adding a Privacy value. The received Privacy value is sent based on the subscription option temporary mode, restricted.			
Preconditions: The originating user has subscribed to the OIR service in the temporary mode with default presentation restricted			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_005	clauses 4.5.2.4	PICS 2/2
Test purpose: <i>The AS does not add a privacy value if the Privacy "none" was received in permanent mode</i> Ensure that the IUT in order to present a complete calling user identity, indicating the privacy with a priv-value "none", transmits an INVITE message with the received P-Asserted Identity header a Privacy value 'id' is sent. The received Privacy value is removed based on the subscription option permanent mode.			
Preconditions: The originating user has subscribed to the OIR service in the permanent mode			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_006	clauses 4.5.2.4	PICS 2/4
Test purpose: <i>Privacy "none" received. The AS does not include a Privacy value in the sent INVITE in temporary mode restricted</i> Ensure that the IUT in order to present a complete calling user identity, indicating the privacy with a priv-value "none", transmits an INVITE message with the received P-Asserted -Identity header without adding a Privacy value. The received Privacy value is sent based on the subscription option temporary mode restricted.			
Preconditions: originating user has subscribed to the OIR service in the temporary mode with default value " presentation restricted "			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_007	clauses 4.5.2.4	PICS 2/4
Test purpose: <i>Privacy "id" received. The AS does not include a Privacy value in the sent INVITE in temporary mode restricted</i> Ensure that the IUT in order to present a complete calling user identity, indicating the privacy with a priv-value "id", transmits an INVITE message with the received P-Asserted -Identity header without adding a Privacy value. The received Privacy value is sent based on the subscription option temporary mode restricted.			
Preconditions: originating user has subscribed to the OIR service in the temporary mode with default value "presentation restricted"			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_008	clauses 4.5.2.4	PICS 2/3
Test purpose: <i>No privacy received. The AS does not include a Privacy value in the sent INVITE in the temporary mode not restricted</i> Ensure that the IUT in order to present a complete calling user identity, but not indicating the privacy with a priv-value, transmits an INVITE message with the received P-Asserted -Identity header. No Privacy value is sent.			
Preconditions: The originating user has subscribed to the OIR service in the temporary mode with default value "presentation not restricted"			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_OrigUser	OIP_N03_009	clause 4.5.2.4	PICS 2/3
Test purpose: <i>Privacy "none" received. The AS does not include a Privacy value in the sent INVITE in the temporary mode not restricted</i> Ensure that the IUT in order to present a complete calling user identity, indicating the privacy with a priv-value "none", transmits an INVITE message with the received P-Asserted -Identity header. The received Privacy value is sent.			
Preconditions: originating user has subscribed to the OIR service in the temporary mode with default value "presentation not restricted"			
Comments:			
ISC INVITE 100 Trying	SUT	ISC INVITE	
	→	→	
	←		

TSS Originating_Netw/AS_OrigUser	TP OIP_N03_018	OIP reference clauses 4.5.2.4	Selection expression PICS 1/9 AND PICS 2/2												
Test purpose: <i>The AS includes the Privacy value 'user' if the user subscribes to OIR service in permanent mode.</i> Ensure that the AS includes the Privacy value 'user' if the served user is subscribed to the OIR service in permanent mode.															
Preconditions: Served user subscribes to the OIR service in permanent mode															
Comments: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">ISC</td> <td style="width: 30%; text-align: center;">SUT</td> <td style="width: 30%; text-align: right;">ISC</td> <td style="width: 10%;"></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> </tr> </table>				ISC	SUT	ISC		INVITE	→	INVITE	→	100 Trying	←		←
ISC	SUT	ISC													
INVITE	→	INVITE	→												
100 Trying	←		←												

TSS Originating_Netw/AS_OrigUser	TP OIP_N03_019	OIP reference clauses 4.5.2.4	Selection expression PICS 1/9 AND PICS 2/4												
Test purpose: <i>The AS includes the Privacy value 'user' if the user subscribes to OIR service in temporary mode default restricted.</i> Ensure that the AS includes the Privacy value 'user' if the served user is subscribed to the OIR service in temporary mode default restricted and no Privacy value was received.															
Preconditions: Served user subscribes to the OIR service in temporary mode default restricted															
Comments: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">ISC</td> <td style="width: 30%; text-align: center;">SUT</td> <td style="width: 30%; text-align: right;">ISC</td> <td style="width: 10%;"></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> </tr> </table>				ISC	SUT	ISC		INVITE	→	INVITE	→	100 Trying	←		←
ISC	SUT	ISC													
INVITE	→	INVITE	→												
100 Trying	←		←												

5.2.2.4 Interactions with not trusted network SIP based networks

TSS Originating_Netw/NotTrusNetw	TP OIP_N04_001	OIP reference clauses 4.5.2.7; 4.5.2.8, 4.7.3	Selection expression PICS 1/4																																
Test purpose: <i>The IBCF removes the P-Asserted-Identity header field set to the public user identity.</i> Ensure that the IUT removes the P-Asserted-Identity header fields from the SIP requests and SIP responses.																																			
Preconditions: The another SIP based network is not trusted network																																			
Comments: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Mx</td> <td style="width: 30%; text-align: center;">SUT</td> <td style="width: 30%; text-align: right;">Ic</td> <td style="width: 10%;"></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">INVITE</td> <td></td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> </tr> <tr> <td>180 Ringing</td> <td style="text-align: center;">←</td> <td style="text-align: right;">180 Ringing</td> <td></td> </tr> <tr> <td>200 OK INVITE</td> <td style="text-align: center;">←</td> <td style="text-align: right;">200 OK INVITE</td> <td></td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td style="text-align: right;">ACK</td> <td></td> </tr> <tr> <td>BYE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">BYE</td> <td></td> </tr> <tr> <td>200 OK BYE</td> <td style="text-align: center;">←</td> <td style="text-align: right;">200 OK BYE</td> <td></td> </tr> </table>				Mx	SUT	Ic		INVITE	→	INVITE		100 Trying	←			180 Ringing	←	180 Ringing		200 OK INVITE	←	200 OK INVITE		ACK	→	ACK		BYE	→	BYE		200 OK BYE	←	200 OK BYE	
Mx	SUT	Ic																																	
INVITE	→	INVITE																																	
100 Trying	←																																		
180 Ringing	←	180 Ringing																																	
200 OK INVITE	←	200 OK INVITE																																	
ACK	→	ACK																																	
BYE	→	BYE																																	
200 OK BYE	←	200 OK BYE																																	

5.2.2.5 Actions at the AS serving the terminating UE

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_TermUser	OIP_N05_001	clause 4.5.2.9	NOT PICS 2/1
Test purpose: <i>The terminating user does not subscribe the OIP service, no P-Asserted-Identity is received.</i> Ensure that if a terminating user does not subscribe to OIP service, an IUT shall remove any P-Asserted-Identity or Privacy header fields included in the request.			
Preconditions: terminating user does not subscribe to OIP service			
Comments:			
ISC INVITE 100 Trying	SUT		ISC INVITE
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_TermUser	OIP_N05_002	clause 4.5.2.9	NOT PICS 2/1 AND PICS 1/7
Test purpose: <i>The terminating user does not subscribe the OIP service, the As anonymise the contents of the From header.</i> Ensure that if a terminating user does not subscribe to OIP service, an IUT shall remove any P-Asserted-Identity or Privacy header fields included in the request and anonymous the contents of the From header by setting it to a default non significant value.			
Preconditions: terminating user does not subscribe to OIP service			
Comments:			
ISC INVITE 100 Trying	SUT		ISC INVITE
	→	→	
	←		

TSS	TP	OIP reference	Selection expression
Originating_Netw/AS_TermUser	OIP_N05_003	clause 4.5.2.9	PICS 2/5
Test purpose: <i>Terminating user has the override category</i> Ensure that the IUT, if the terminating user has an override category, sends the P-Asserted-Identity headers and remove the Privacy header fields.			
Preconditions: terminating user has an override category			
Comments:			
ISC INVITE 100 Trying	SUT		ISC INVITE
	→	→	
	←		

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 EN 300 089: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- ETSI EN 300 090: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".
- IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".
- IETF RFC 3966: "The tel URI for Telephone Numbers".

History

Document history		
V2.1.1	March 2010	Publication