

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.3942.2

(06/2015)

SERIES Q: SWITCHING AND SIGNALLING

Testing specifications – Testing specifications for next
generation networks

**Conformance test specification for the
terminating identification restriction using IP
multimedia core network subsystem – Part 2:
Network side; Test suite structure and test
purposes**

Recommendation ITU-T Q.3942.2

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Recommendation ITU-T Q.3942.2

Conformance test specification for the terminating identification restriction using IP multimedia core network subsystem – Part 2: Network side; Test suite structure and test purposes

Summary

Recommendation ITU-T Q.3942.2v1 specifies part 2 of the test suite structure (TSS) and test purposes (TP) for the terminating identification restriction (TIR) using IP multimedia core network subsystem; conformance test specification, applicable for the network side.

The version number, v1, indicates that this is version one of Recommendation ITU-T Q.3942.2 and that it relates to release 10 of the relevant 3GPP/ETSI standard.

This Recommendation contains the test specifications against requirements which are represented in Recommendation ITU-T Q.3617v1, "Terminating identification presentation and terminating identification restriction using IP multimedia core network subsystem. Protocol specification".

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T Q.3942.2	2015-06-13	11	11.1002/1000/12499

Keywords

IMS, network side, session description protocol, SDP, session initiation protocol, SIP, terminating identification presentation, terminating identification restriction, testing, TIP, TIR, TSS&TP, user side.

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

FOREWORD

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The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

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Recommendation ITU-T Q.3942.2

Conformance test specification for the terminating identification restriction using IP multimedia core network subsystem – Part 2: Network side; Test suite structure and test purposes

1 Scope

This Recommendation specifies part 2 of the test suite structure (TSS) and test purposes (TP) which can be used for testing against [ITU-T Q.3617] and in accordance with the relevant guidance given in [ITU-T X.290].

This Recommendation contains the test specifications against requirements that are represented in [ITU-T Q.3617].

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- | | |
|------------------|---|
| [ITU-T Q.3617] | Recommendation ITU-T Q.3617v1 (2015), <i>Terminating identification presentation and terminating identification restriction using IP multimedia core network subsystem. Protocol specification.</i> |
| [ITU-T Q.3942.1] | Recommendation ITU-T Q.3942.1 (2013), <i>Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification; Part 1: Protocol Implementation Conformance Statement (PICS).</i> |
| [ITU-T X.290] | Recommendation ITU-T X.290 (1995), <i>OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts.</i> |

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

- 3.1.1 implementation under test (IUT)** [ITU-T X.290]
- 3.1.2 protocol implementation conformance statement (PICS)** [ITU-T X.290]
- 3.1.3 system under test (SUT)** [ITU-T X.290]
- 3.1.4 test purpose (TP)** [ITU-T X.290]

3.2 Terms defined in this Recommendation

None.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

AS	Application Server
CDIV	Communication Diversion
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
SUT	System Under Test
TIP	Terminating Identification Presentation
TIR	Terminating Identification Restriction
TP	Test Purposes
TSS	Test Suite Structure
UE	User Equipment
URI	Universal Resource Identifier

5 Conventions

None.

6 Test suite structure (TSS)

The test suit structure is described in Figure 6-1.

Network entity		
	OrigAS	TIP_N01_xxx
	DestAS	TIP_N02_xxx
Interaction		
	CDIV	TIP_N03_xxx

Figure 6-1 – Test suite structure

6.1 Configuration

The scope of this Recommendation is to test the signalling and procedural aspects of the stage 3 requirements as described in [ITU-T Q.3617]. The stage 3 description describes the requirements for several network entities. Therefore, several interfaces (reference points) are addressed to satisfy the test of the different entities.

To test the appropriate entities, the configurations below are applicable.

6.1.1 Testing of the application server (AS)

The AS entity is responsible for performing and managing services. The ISC interface is the appropriate access point for testing. See Figure 6-2.

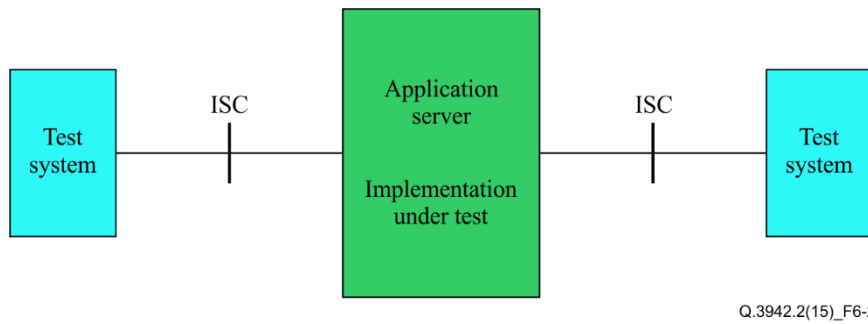


Figure 6-2 – Applicable interface to test AS functionalities

If the ISC interface is not accessible, it is also possible to perform the test of the terminating AS using any NNI (Mw, Mg, Mx) interface (see Figure 6-3) or originating AS using any NNI (Mw, Mg, Mx) interface (see Figure 6-4).

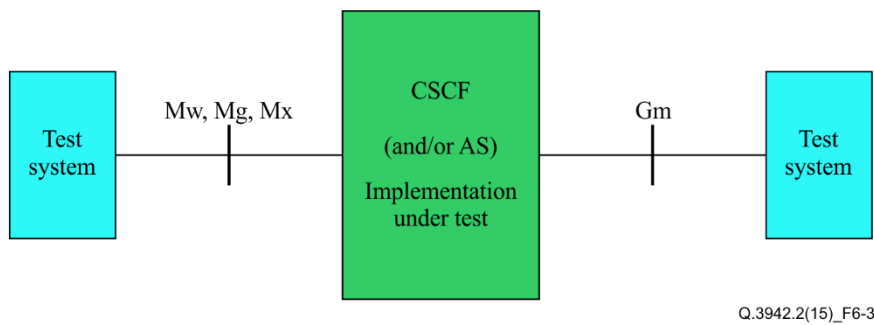


Figure 6-3 – Applicable interfaces for tests using a (generic) NNI interface for terminating AS

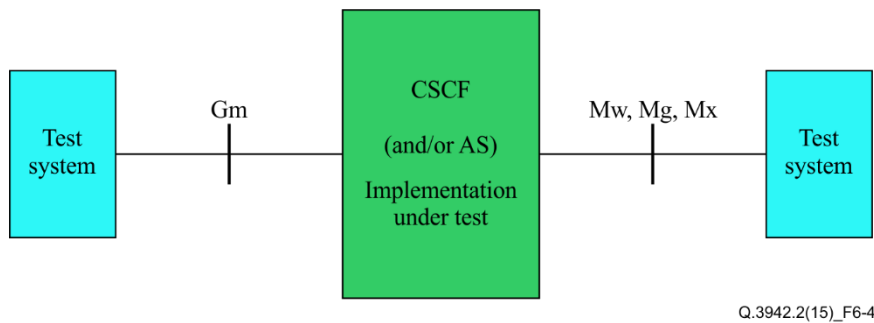


Figure 6-4 – Applicable interfaces for tests using a (generic) NNI interface for originating AS

7 Test purposes (TP)

7.1 Introduction

For each test requirement, a TP is defined.

All protocol implementation conformance statement (PICS) items referred to in this clause are as specified in [ITU-T Q.3942.1] unless indicated otherwise by another numbered reference.

7.1.1 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 (see Table 7-1).

Table 7-1 – TP identifier naming convention scheme

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

7.2 TPs for terminating identification presentation (TIP) and terminating identification restriction (TIR) network role

7.2.1 Actions at the AS serving the originating user equipment (UE)

TSS Signalling/OrigAS	TP TIP_N01_001	TIP/TIR reference 4.3.2	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3												
Test purpose: <i>The originating user subscribes to the TIP service.</i> Ensure that for originating users that subscribe to TIP simulation service, if network provided identity information about the terminator is available, and if presentation is not restricted, the AS shall pass that information in any non 100 response message defined as SIP_MESSAGE_VA															
Precondition: The originating user has subscribed to the TIP service.															
SIP messages: SIP_MESSAGE_VA1: P-Asserted-Identity SIP_MESSAGE_VA2: P-Asserted-Identity															
Comments: <table border="0" style="width:100%"> <tr> <td style="width:40%">Test equipment</td> <td style="width:20%; text-align:center">AS</td> <td style="width:20%; text-align:center">Test equipment</td> <td style="width:20%;"></td> </tr> <tr> <td>INVITE</td> <td align="center">➔</td> <td align="center">➔</td> <td>INVITE</td> </tr> <tr> <td>SIP_MESSAGE_VA 2</td> <td align="center">➔</td> <td align="center">➔</td> <td>SIP_MESSAGE_VA 1</td> </tr> </table>				Test equipment	AS	Test equipment		INVITE	➔	➔	INVITE	SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1
Test equipment	AS	Test equipment													
INVITE	➔	➔	INVITE												
SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1												

TSS Signalling/OrigAS	TP TIP_N01_002	TIP/TIR reference 4.5.2.4	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3												
Test purpose: <i>The originating user does not subscribe to the TIP service P-Asserted-Identity header not present.</i> Ensure that the implementation under test (IUT) acting as AS serving the originating user that does not subscribe to the TIP service removes any P-Asserted-Identity header fields included in the SIP response defined as SIP_MESSAGE_VA before forwarding the response															
Precondition: The originating user has not subscribed to the TIP service.															
SIP messages: SIP_MESSAGE_VA1: P-Asserted-Identity SIP_MESSAGE_VA2: P-Asserted-Identity not present															
Comments: <table border="0" style="width:100%"> <tr> <td style="width:40%">Test equipment</td> <td style="width:20%; text-align:center">AS</td> <td style="width:20%; text-align:center">Test equipment</td> <td style="width:20%;"></td> </tr> <tr> <td>INVITE</td> <td align="center">➔</td> <td align="center">➔</td> <td>INVITE</td> </tr> <tr> <td>SIP_MESSAGE_VA 2</td> <td align="center">➔</td> <td align="center">➔</td> <td>SIP_MESSAGE_VA 1</td> </tr> </table>				Test equipment	AS	Test equipment		INVITE	➔	➔	INVITE	SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1
Test equipment	AS	Test equipment													
INVITE	➔	➔	INVITE												
SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1												

TSS Signalling/OrigAS	TP TIP_N01_003	TIP/TIR reference 4.5.2.4	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3												
Test purpose: <i>The originating user does not subscribe to the TIP service Privacy header not present.</i> Ensure that the IUT acting as AS serving the originating user that does not subscribe to the TIP service removes any Privacy header fields included in the SIP response defined as SIP_MESSAGE_VA before forwarding the response															
Precondition: The originating user has not subscribed to the TIP service.															
SIP messages: SIP_MESSAGE_VA1: Privacy: id SIP_MESSAGE_VA2: Privacy header not present															
Comments: <table border="0" style="width:100%"> <tr> <td style="width:40%">Test equipment</td> <td style="width:20%; text-align:center">AS</td> <td style="width:20%; text-align:center">Test equipment</td> <td style="width:20%;"></td> </tr> <tr> <td>INVITE</td> <td align="center">➔</td> <td align="center">➔</td> <td>INVITE</td> </tr> <tr> <td>SIP_MESSAGE_VA 2</td> <td align="center">➔</td> <td align="center">➔</td> <td>SIP_MESSAGE_VA 1</td> </tr> </table>				Test equipment	AS	Test equipment		INVITE	➔	➔	INVITE	SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1
Test equipment	AS	Test equipment													
INVITE	➔	➔	INVITE												
SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1												

TSS Signalling/OrigAS	TP TIP_N01_004	TIP/TIR reference 4.6.3	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3 AND PICS 4.7.1/7
Test purpose: <i>The originating user has TIR override category.</i> Ensure that, if the originating user has the override category, the AS removes Privacy header fields restricting the presentation of the terminating identity and sends the P-Asserted-Identity header in the SIP response defined as SIP_MESSAGE_VA before forwarding the response			
Precondition: The originating user has subscribed to the TIP service and originating user has the override category.			
SIP messages: SIP_MESSAGE_VA1: P-Asserted-Identity, Privacy = id SIP_MESSAGE_VA2: P-Asserted-Identity, no Privacy header or Privacy = none			
Comments:			
Test equipment	AS	Test equipment	
INVITE	→	→	INVITE
SIP_MESSAGE_VA2	←	←	SIP_MESSAGE_VA1

Values for tests purposes TIP_N01_001 to TIP_N02_004	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

TSS Signalling/OrigAS	TP TIP_N01_005	TIP/TIR reference 4.5.2.4	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3
Test purpose: <i>The originating user subscribes to the TIP service. The "from-change" tag is passed on.</i> Ensure that the IUT acting as AS serving the originating user that subscribes to the TIP service passes on the "from change" tag within the Supported header in a received initial INVITE request before forwarding the request			
Precondition: The originating user has subscribed to the TIP service			
SIP message: INVITE1 Supported "from-change" INVITE2 Supported "from-change"			
Comments:			
Test equipment	AS	Test equipment	
INVITE1 with "from-change" tag	→	→	INVITE2 with "from-change" tag

TSS Signalling/OrigAS	TP TIP_N01_006	TIP/TIR reference 4.5.2.4	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3
Test purpose: <i>The originating user subscribes to the TIP service. The "from-change" tag is not received.</i> Ensure that the IUT acting as AS serving the originating user that subscribes to the TIP service, receiving an initial INVITE request without the "from-change" tag in the Supported header, does not insert the "from-change" tag into the Supported header before forwarding the request			
Precondition: The originating user has subscribed to the TIP service			
SIP message: INVITE1 Supported "from-change" not included INVITE2 Supported "from-change" not included			
Comments:			
Test equipment	AS	Test equipment	
INVITE1 without "from-change" tag	→	→	INVITE2 with "from-change" tag

TSS Signalling/OrigAS	TP TIP_N01_007	TIP/TIR reference 4.5.2.4	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/3
Test purpose: <i>The originating user does not subscribe to the TIP service. The "from-change" tag is removed from the Supported header.</i> Ensure that the IUT acting as AS serving the originating user that does not subscribe to the TIP service removes the "from-change" tag from the Supported header in a received initial INVITE request before forwarding the request			
Precondition: The originating user has not subscribed to the TIP service			
SIP message: INVITE1 Supported "from-change" INVITE2 Supported "from-change" not included			
Comments:			
Test equipment	AS	Test equipment	
INVITE1 with "from-change" tag	➔	➔ INVITE2	

7.2.2 Actions at the AS serving the terminating UE

TSS Network entity/DestAS	TP TIP_N02_001	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/4 AND PICS 4.7.1/6
Test purpose: <i>The AS inserts the Privacy id value in the response if the response does not contain any Privacy. The terminating user subscribes to TIR in permanent mode.</i> Ensure that the IUT acting as AS serving the terminating user that subscribes to TIR in "permanent mode", receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA without a Privacy header, the AS shall insert a Privacy header with privacy value "id" before forwarding the response			
Precondition: The terminating user has subscribed to the TIR service in permanent mode.			
SIP messages: SIP_MESSAGE_VA1 SIP_MESSAGE_VA2: Privacy: id			
Comments:			
Test equipment	AS	Test equipment	
INVITE	➔	➔ INVITE	
SIP_MESSAGE_VA 2	➔	➔ SIP_MESSAGE_VA 1	

TSS Network entity/DestAS	TP TIP_N02_002	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/4 AND PICS 4.7.1/6
Test purpose: <i>The AS inserts the Privacy id value in the response if the response contains Privacy "none". The terminating user subscribes to TIR in permanent mode.</i> Ensure that the IUT acting as AS serving the terminating user that subscribes to TIR in "permanent mode", receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA with a Privacy header "none", the AS shall remove the "none" and insert a Privacy header with privacy value "id" before forwarding the response			
Precondition: The terminating user has subscribed to the TIR service in permanent mode.			
SIP messages: SIP_MESSAGE_VA1 Privacy: none SIP_MESSAGE_VA2: Privacy: id			
Comments:			
Test equipment	AS	Test equipment	
INVITE	➔	➔ INVITE	
SIP MESSAGE VA 2	➔	➔ SIP MESSAGE VA 1	

TSS Network entity/DestAS	TP TIP_N02_003	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/4 AND PICS 4.7.1/5
Test purpose: <i>The AS inserts the Privacy value "id" in the response if the response does not contain any Privacy. The user subscribes TIR temporary mode with default "presentation restricted".</i> Ensure that the IUT acting as AS serving the terminating user that subscribes to TIR in "temporary mode" with default value "presentation restricted", receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA without a Privacy header, the AS shall insert a Privacy header with privacy value "id" before forwarding the response			
Precondition: The terminating user has subscribed to the TIR service in temporary mode "presentation restricted".			
SIP messages: SIP_MESSAGE_VA1 SIP_MESSAGE_VA2: Privacy: id			
Comments:			
Test equipment	AS	Test equipment	
INVITE	➔	➔ INVITE	
SIP MESSAGE VA 2	➔	➔ SIP MESSAGE VA 1	

TSS Network entity/DestAS	TP TIP_N02_004	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/4 AND PICS 4.7.1/5
Test purpose: <i>The AS passes the Privacy value 'id' in the response. The user subscribes TIR temporary mode with default "presentation not restricted".</i> Ensure that the IUT acting as AS serving the terminating user that subscribes to TIR in "temporary mode" with default value "presentation not restricted", receiving a 1xx or 2xx response message defined as SIP_MESSAGE_VA with a Privacy header set to 'id', the AS shall pass Privacy header with the privacy value before forwarding the response			
Precondition: The terminating user has subscribed to the TIR service in temporary mode "presentation not restricted".			
SIP messages: SIP_MESSAGE_VA1: Privacy: id SIP_MESSAGE_VA2: Privacy: id			
Comments:			
Test equipment	AS	Test equipment	
INVITE	➔	➔ INVITE	
SIP MESSAGE VA	➔	➔ SIP MESSAGE VA	

Values for tests purposes TIP_N02_001 to TIP_N01_004	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

TSS Network entity/DestAS	TP TIP_N02_005	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/4 AND PICS 4.7.1/6
Test purpose: <i>The AS removes the "from-change" tag from the Supported header. The user subscribes TIR in permanent mode.</i> Ensure that the IUT acting as AS serving the terminating user that subscribes to the TIR service in "permanent mode" removes the "from-change" tag from the Supported header in a received initial INVITE request before forwarding the request			
Precondition: The terminating user has subscribed to the TIR service in permanent mode			
SIP messages: INVITE1 Supported: "from-change" INVITE2 Supported without "from-change"			
Comments:			
Test equipment	AS		Test equipment
INVITE1 with "from-change" tag	→	→	INVITE2 without "from-change" tag

TSS Signalling/DestAS	TP TIP_N02_006	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/8
Test purpose: <i>The terminating user is not subscribed to the "no screening" special arrangement From header value does not match.</i> Ensure that, if the IUT attempt to match the information in the From header with the set of registered public user identities for the served user and 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: INVITE: Supported: from-change UPDATE1: From <connected user identity> UPDATE2: From <public user identity>			
Precondition: Terminating user is not subscribed to the "no screening" special arrangement			
Comments:			
Test equipment	AS	Test equipment	
INVITE	→	→	INVITE
180 Ringing	←	←	180 Ringing
200 OK INVITE	←	←	200 OK INVITE
ACK	→	→	ACK
UPDATE2	←	←	UPDATE1
200 OK UPDATE	→	→	200 OK UPDATE

TSS Signalling/DestAS	TP TIP_N02_007	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/8
Test purpose: <i>The terminating user is not subscribed to the "no screening" special arrangement From header value matches.</i> Ensure that, if the IUT attempt to match the information in the From header with the set of registered public user identities for the served user and if a match is found, the AS passes the value of the From header in the UPDATE if the terminating user is not subscribed to the "no screening" special arrangement			
SIP messages: INVITE: Supported: from-change 18x/200: Supported: from-change UPDATE1: From <public user identity> UPDATE2: From <public user identity>			
Precondition: Terminating user is not subscribed to the "no screening" special arrangement.			
Comments:			
Test equipment	AS	Test equipment	
INVITE	→	→	INVITE
180 Ringing	←	←	180 Ringing
200 OK INVITE	←	←	200 OK INVITE
ACK	→	→	ACK
UPDATE2	←	←	UPDATE1
200 OK UPDATE	→	→	200 OK UPDATE

TSS Signalling/DestAS	TP TIP_N02_008	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/8
Test purpose: <i>The terminating user is subscribed to the "no screening" special arrangement.</i> Ensure that, if the IUT passes the information in the From header in the UPDATE request if the terminating user is subscribed to the "no screening" special arrangement			
SIP messages: INVITE: Supported: from-change 18x/200: Supported: from-change UPDATE1: From <connected user identity> UPDATE2: From <connected user identity>			
Precondition: Terminating user is subscribed to the "no screening" special arrangement.			
Comments:			
Test equipment	AS	Test equipment	
INVITE	→	→	INVITE
180 Ringing	←	←	180 Ringing
200 OK INVITE	←	←	200 OK INVITE

TSS Signalling/DestAS	TP TIP_N02_008	TIP/TIR reference 4.5.2.9	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/8
ACK →	→	ACK	
UPDATE2 ←	←	UPDATE1	
200 OK UPDATE →	→	200 OK UPDATE	

7.3 Interaction with other services

7.3.1 Communication diversion (CDIV) services

TSS Interaction/CDIV	TP TIP_N03_001	TIP/TIR reference 4.6.7	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/1 AND PICS 4.7.2/1 AND PICS 4.7.2/2
Test purpose: Ensure that if the served (diverting) user of the CDIV service selects the option that the originating user is notified of diversion with the diverted-to address and the diverted-to user has subscribed to the TIR service in permanent mode and the originating user has subscribed to the TIP service, no P-Asserted-Identity header including the universal resource identifier (URI) of the diverted-to user and no history-entry identifying the diverted-to user is sent within the SIP_MESSAGE_VA response to the originating user. The History-Info header entry identifying the diverted-to user is removed from the History-Info header			
Precondition: Test equipment (Diverting user) activates CDIV unconditional with option "originating user is notified of diversion with the diverted-to address"			
SIP messages: 181: History-Info diverted-to URI not present SIP_MESSAGE_VA 2 History-Info diverted-to URI not present Privacy: id			
Comments:			
Test equipment (originating user)	SUT	Test equipment (diverted-to user)	
INVITE	➔	➔	INVITE
181 Call is being forwarded	➔		
History-Info header without URI of the diverted-to user			
SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1
without P-Asserted-Identity			

TSS Interaction/CDIV	TP TIP_N03_002	TIP/TIR reference 4.6.7	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/1 AND PICS 4.7.2/1 AND PICS 4.7.2/2
Test purpose: Ensure that if the served (diverting) user of the CDIV service selects the option that the originating user is notified of diversion with the diverted-to address and the diverted-to user has subscribed to the TIR service in temporary mode default "presentation restricted" and the originating user has subscribed to the TIP service, when the diverted-to user has send no Privacy header within the SIP_MESSAGE_VA response, no P-Asserted-Identity header including the URI of the diverted-to user is sent within the SIP_MESSAGE_VA response to the originating user. The History-Info header entry identifying the diverted-to user is removed from the History -Info header			
Precondition: Test equipment (Diverting user) activates CDIV unconditional with option "originating user is notified of diversion with the diverted-to address"			
SIP messages: 181: History-Info diverted-to URI not present SIP_MESSAGE_VA 2 History-Info diverted-to URI not present Privacy: id			
Comments:			
Test equipment (originating user)	SUT	Test equipment (diverted-to user)	
INVITE	➔	➔	INVITE
181 Call is being forwarded	➔		
History-Info header without URI of the diverted-to user			
SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1
without P-Asserted-Identity			

TSS Interaction/CDIV	TP TIP_N03_003	TIP/TIR reference 4.6.7	Selection expression PICS 4.5.1/3 AND PICS 4.7.1/1 AND PICS 4.7.2/1 AND PICS 4.7.2/2
Test purpose: Ensure that if the served (diverting) user of the CDIV service selects the option that the originating user is notified of diversion with the diverted-to address and the diverted-to user has subscribed to the TIR service in temporary mode default "presentation not restricted" and the originating user has subscribed to the TIP service, when the diverted-to user has send a Privacy header with value "id" within the SIP_MESSAGE_VA response, no P-Asserted-Identity header including the URI of the diverted-to user is sent within the SIP_MESSAGE_VA response to the originating user. The History-Info header entry identifying the diverted-to user is removed from the History -Info header			
Precondition: Test equipment (Diverting user) activates CDIV unconditional with option "originating user is notified of diversion with the diverted-to address"			
SIP messages: 181: History-Info diverted-to URI not present SIP_MESSAGE_VA 1 Privacy: id SIP_MESSAGE_VA 2 History-Info diverted-to URI not present Privacy: id			
Comments:			
Test equipment (originating user)	SUT	Test equipment (diverted-to user)	
INVITE	➔	➔	INVITE
181 Call is being forwarded	➔		
History-Info header without URI of the diverted-to user			
SIP_MESSAGE_VA 2	➔	➔	SIP_MESSAGE_VA 1
without P-Asserted-Identity			with Privacy "id"

Values for tests purposes TIP_N03_001 to TIP_N03_003	
VA_01	180 Ringing
VA_02	183 Session progress
VA_03	200 OK

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