# ETSI TS 101 596-2 V5.1.1 (2012-10)



IMS Network Testing (INT); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification; Part 2: Test Suite Structure and Test Purposes (TSS&TP)

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### Foreword

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

The present document is part 2 of a multi-part deliverable covering the Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification as identified below:

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

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

### 1 Scope

The present document provides the Test suite structure and test purposes for the Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (based on TS 124 608 (3GPP Release 10) [1]).

# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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

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#### 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] ETSI TS 124 608: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification (3GPP TS 24.608 Release 10)".
- [2] ETSI TS 101 596-1: "IMS Network Testing (INT); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification; Part 1: Protocol Implementation Conformance Statement (PICS)".

### 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

# 3 Definitions, symbols and abbreviations

#### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] apply.

### 3.2 Symbols

For the purposes of the present document, the symbols given in [1] apply.

#### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in [1] and the following apply:

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| AS<br>ATM | Application Server<br>Abstract Test Method |
|-----------|--------------------------------------------|
| ATS       | Abstract Test Suite                        |
| CDIV      | Communication DIVersion                    |
| CN        | Core Network                               |
| CSCF      | Call Session Control Function              |
| IBCF      | Interconnection Border Control Function    |
| IM        | IP Multimedia                              |
| IP        | Internet Protocol                          |
| NGN       | Next Generation Network                    |
| P-CSCF    | Proxy - CSCF                               |
| RTP       | Real time Transport Protocol               |
| SDP       | Session Description Protocol               |
| SIP       | Session Initiation Protocol                |
| TIP       | Terminating Identification Presentation    |
| TIR       | Terminating Identification Restriction     |
| TP        | Test Purposes                              |
| TSS       | Test Suite Structure                       |
| UA        | User Agent                                 |
| UE        | User Equipment                             |
| URI       | Universal Resource Identifier              |

# 4 Test Suite Structure (TSS)

| User           |           |             |
|----------------|-----------|-------------|
|                | OrigUserE | TIP_U01_xxx |
|                | TermUserE | TIP_U02_xxx |
|                |           |             |
| Network entity |           |             |
|                | OrigAS    | TIP_N01_xxx |
|                | DestAS    | TIP_N02_xxx |
|                |           |             |
| Interaction    |           |             |
|                | CDIV      | TIP_N03_xxx |
|                |           |             |

#### Figure 4: 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 TS 124 608 [1]. The stage 3 description describes the requirements for several network entities and also the requirements regarding terminal 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.

#### 4.1.1 Testing of the AS

The AS entity is responsible for performing and managing services. The ISC interface is the appropriate access point for testing.

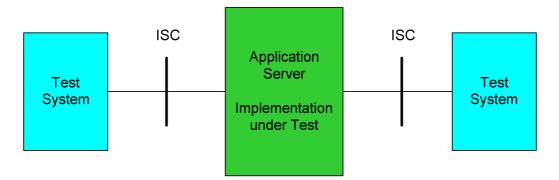


Figure 4.1.1-1: Applicable interface to test AS functionalities

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 4.1.1-2) or originating AS using any NNI (Mw, Mg, Mx,) interface (see figure 4.1.1-3).

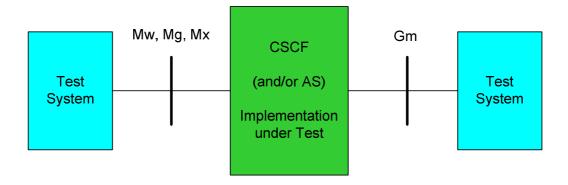


Figure 4.1.1-2: Applicable interfaces for tests using a (generic) NNI interface for terminating AS

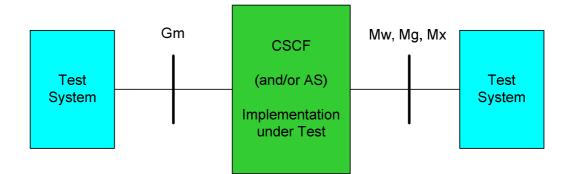


Figure 4.1.1-3: Applicable interfaces for tests using a (generic) NNI interface for originating AS

#### 4.1.2 Testing of the UE

There are special clauses in the protocol standard describing the procedures that apply at the originating and terminating user equipment. Therefore the test configuration in figure 4.1.2 has been chosen.

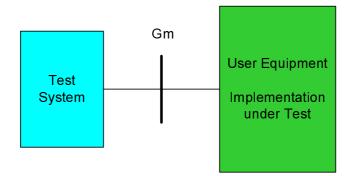


Figure 4.1.2: Applicable configuration to test UE functionalities

# 5 Test Purposes (TP)

#### 5.1 Introduction

For each test requirement a TP is defined.

All PICS items referred to in this clause are as specified in TS 101 596-1 [2] unless indicated otherwise by another numbered reference.

#### 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 5.1.1).

| Identifier: <ss>_<iut><group>_<nnn></nnn></group></iut></ss> |             |                                                   |  |
|--------------------------------------------------------------|-------------|---------------------------------------------------|--|
| <ss> = supplementary service:</ss>                           | e.g. "TIP   | "                                                 |  |
| <iut> = type of IUT:</iut>                                   | U<br>N      | User<br>Network entity, e.g. P-CSCF               |  |
| <group> = group</group>                                      | 2 digit fie | eld representing group reference according to TSS |  |
| <nnn> = sequential number</nnn>                              | (001-999)   | )                                                 |  |

| Table 5.1.1: TP identifier | naming convention | scheme |
|----------------------------|-------------------|--------|
|----------------------------|-------------------|--------|

# 5.2 TPs for Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)

### 5.2.1 Actions at the originating UE

| TSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TP                                                                                                   | TIP/TIR reference                                                                | Selection expression                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| User/OrigUserE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TIP_U01_001                                                                                          | 4.5.2.1                                                                          | PICS 4.5.1/1                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11F_001_001                                                                                          | 4.5.2.1                                                                          | FIC3 4.3.1/1                                                                         |
| Test purpose:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Identity in a ain UDI                                                                                |                                                                                  |                                                                                      |
| The originating UE receives one P-Asserted-I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                      | and defined as CID ME                                                            |                                                                                      |
| Ensure that the Originating UE, receiving any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                      |                                                                                  |                                                                                      |
| P-Asserted-Identity heeder with a valid sip UI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ri accepts the call following                                                                        | ng the basic request ha                                                          | indling procedures.                                                                  |
| SIP message: SIP_MESSAGE_VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                      |                                                                                  |                                                                                      |
| P-Asserted-Identity: <sip< td=""><td>o:[any value]&gt;</td><td></td><td></td></sip<>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | o:[any value]>                                                                                       |                                                                                  |                                                                                      |
| Comments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                      |                                                                                  |                                                                                      |
| User equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                      | Test equipmen                                                                    | t                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                      |                                                                                  |                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>→</b>                                                                                             | INVITE                                                                           |                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L                                                                                                    |                                                                                  |                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +                                                                                                    | SIP_MESSAGE                                                                      | _VA                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>C</b>                                                                                             | SIF_MESSAGE                                                                      | _VA                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                      |                                                                                  |                                                                                      |
| TSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ТР                                                                                                   | TIP/TIR reference                                                                | Selection expression                                                                 |
| User/OrigUserE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                      |                                                                                  |                                                                                      |
| User/OrigUserE<br>Test purpose:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TP<br>TIP_U01_002                                                                                    | TIP/TIR reference                                                                | Selection expression                                                                 |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TP<br>TIP_U01_002                                                                                    | TIP/TIR reference                                                                | Selection expression<br>PICS 4.5.1/1                                                 |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any                                                                                                                                                                                                                                                                                                                                                                                                               | TP<br>TIP_U01_002<br>Identity in a tel URI.                                                          | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME                            | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a                        |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UR                                                                                                                                                                                                                                                                                                                                                             | TP<br>TIP_U01_002<br>Identity in a tel URI.                                                          | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME                            | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a                        |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UR                                                                                                                                                                                                                                                                                                                                                             | TP<br>TIP_U01_002<br>Identity in a tel URI.                                                          | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME                            | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a                        |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UR                                                                                                                                                                                                                                                                                                                                                             | TP<br>TIP_U01_002<br>Identity in a tel URI.<br>non 100 response mess<br>RI, accepts the call followi | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME                            | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a                        |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UF<br>SIP message: SIP_MESSAGE_VA                                                                                                                                                                                                                                                                                                                              | TP<br>TIP_U01_002<br>Identity in a tel URI.<br>non 100 response mess<br>RI, accepts the call followi | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME                            | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a                        |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-H<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UF<br>SIP message: SIP_MESSAGE_VA<br>P-Asserted-Identity: <tel< td=""><td>TP<br/>TIP_U01_002<br/>Identity in a tel URI.<br/>non 100 response mess<br/>RI, accepts the call followi</td><td>TIP/TIR reference<br/>4.5.2.1<br/>age defined as SIP_ME</td><td>Selection expression<br/>PICS 4.5.1/1<br/>SSAGE_VA containing a<br/>indling procedures.</td></tel<> | TP<br>TIP_U01_002<br>Identity in a tel URI.<br>non 100 response mess<br>RI, accepts the call followi | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME                            | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a<br>indling procedures. |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UE<br>SIP message: SIP_MESSAGE_VA<br>P-Asserted-Identity: <tel<br>Comments:</tel<br>                                                                                                                                                                                                                                                                           | TP<br>TIP_U01_002<br>Identity in a tel URI.<br>non 100 response mess<br>RI, accepts the call followi | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME<br>ng the basic request ha | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a<br>indling procedures. |
| User/OrigUserE<br>Test purpose:<br>The originating UE receives one P-Asserted-I<br>Ensure that the Originating UE, receiving any<br>P-Asserted-Identity heeder with a valid tel UE<br>SIP message: SIP_MESSAGE_VA<br>P-Asserted-Identity: <tel<br>Comments:</tel<br>                                                                                                                                                                                                                                                                           | TP<br>TIP_U01_002<br>Identity in a tel URI.<br>non 100 response mess<br>RI, accepts the call followi | TIP/TIR reference<br>4.5.2.1<br>age defined as SIP_ME<br>ng the basic request ha | Selection expression<br>PICS 4.5.1/1<br>SSAGE_VA containing a<br>indling procedures. |

| TSS                                                                                         | TP                   | TIP/TIR reference         | Selection expression     |
|---------------------------------------------------------------------------------------------|----------------------|---------------------------|--------------------------|
| User/OrigUserE                                                                              | TIP_U01_003          | 4.5.2.1                   | PICS 4.5.1/1             |
| Test purpose:                                                                               |                      |                           |                          |
| The originating UE receives two P-Asserted-Identity                                         | / headers in a sip L | JRI and a tel URI.        |                          |
| Ensure that the Originating UE, receiving any non 1                                         | 00 response mess     | age defined as SIP_ME     | SSAGE_VA containing      |
| one P-Asserted-Identity header with a valid sip URI                                         | and one P-Asserte    | ed-Identity header with a | a valid tel URI, accepts |
| the call following the basic request handling procedu                                       | ures.                |                           |                          |
| SIP message: SIP_MESSAGE_VA                                                                 |                      |                           |                          |
| P-Asserted-Identity: <sip:[any< td=""><td>value]&gt;</td><td></td><td></td></sip:[any<>     | value]>              |                           |                          |
| P-Asserted-Identity: <tel:[any td="" v<=""><td>value]&gt;</td><td></td><td></td></tel:[any> | value]>              |                           |                          |
| Comments:                                                                                   |                      |                           |                          |
| User equipment                                                                              |                      | UA S                      |                          |
|                                                                                             | <b>→</b>             | INVITE                    |                          |
|                                                                                             | +                    | SIP_MESSAGE               | _VA                      |

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The originating UE receives a Privacy header field value 'id' indicating the TIR service.

Ensure that the Originating UE, receiving any non 100 response message defined as SIP\_MESSAGE\_VA with a Privacy header with privacy type of "id" and without P-Asserted-Identity headers, accepts the call following the basic request handling procedures. SIP message: SIP\_MESSAGE\_VA

→

←

| Privacy: id |
|-------------|

Comments: User equipment

**Test equipment** 

INVITE SIP\_MESSAGE\_VA

|       | Values for tests purposes TIP_U01_001 to TIP_U02_004 |  |  |  |
|-------|------------------------------------------------------|--|--|--|
| VA_01 | 180 Ringing                                          |  |  |  |
| VA_02 | 183 Session progress                                 |  |  |  |
| VA_03 | 200 OK                                               |  |  |  |

| TSS<br>User/OrigUserE                                                                                 | TP<br>TIP_U01_005 | <b>TIP/TIR reference</b><br>4.5.2.1 | Selection expression<br>PICS 4.5.1/1 AND<br>PICS 4.6.1/1 |
|-------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|----------------------------------------------------------|
| <b>Test purpose:</b><br>The originating user is able to send i<br>Ensure that the Originating UE send |                   |                                     |                                                          |
| SIP message: INVITE Supported "fi                                                                     | <u> </u>          |                                     |                                                          |
| Comments:                                                                                             |                   |                                     |                                                          |
| User equipment                                                                                        |                   | Test equipmen                       | it                                                       |
|                                                                                                       | <b>→</b>          | INI/ITE with "fro                   | om-change" tag                                           |

INVITE with "from-change" tag

| TSS                                                                                                                                                                           | TP                                                     | TIP/TIR reference                                       | Selection expression             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|----------------------------------|
| Syntax/OrigUserE                                                                                                                                                              | TIP_U01_006                                            | 4.5.2.1                                                 | PICS 4.5.1/1 AND<br>PICS 4.6.1/1 |
| <b>Test purpose:</b><br>The originating user is able to receive a conr<br>Ensure that the Originating UE is able to receive<br>indicates the support of this procedure by set | eive a second identity in the                          | ne From header of an U                                  | PDATE request if the UE          |
| and this identity is displayed to the user.                                                                                                                                   | nung the nom-change t                                  | ag in the Supported hea                                 |                                  |
| SIP message: INVITE Supported "from-ch<br>UPDATE From <second ide<="" td=""><td>0</td><td></td><td></td></second>                                                             | 0                                                      |                                                         |                                  |
| Comments:                                                                                                                                                                     |                                                        |                                                         |                                  |
| User equipment                                                                                                                                                                | SUT                                                    | Test equipmen                                           | t                                |
|                                                                                                                                                                               | <ul> <li>→</li> <li>←</li> <li>←</li> <li>→</li> </ul> | INVITE with "fro<br>180 Ringing<br>200 OK INVITE<br>ACK | om-change" tag                   |
|                                                                                                                                                                               | <b>←</b><br>→                                          | UPDATE with n<br>200 OK UPDAT                           | ew URI in From header<br>E       |

# 5.2.2 Actions at the AS serving the originating UE

| TSS                                                                      |                       | TIP/TIR reference        | Selection expression             |
|--------------------------------------------------------------------------|-----------------------|--------------------------|----------------------------------|
| Signalling/OrigNetw                                                      | TIP_N01_001           | 4.3.2                    | PICS 4.5.1/3 AND<br>PICS 4.7.1/3 |
| Test purpose:                                                            |                       | •                        |                                  |
| The originating user subscribes to the TIP service                       |                       |                          |                                  |
| Ensure that for originating users that subscribe to                      |                       |                          |                                  |
| he terminator is available, and if presentation is n                     |                       | shall pass that informat | tion in any non                  |
| 100 response message defined as SIP_MESSAG                               |                       |                          |                                  |
| Precondition: The originating user has subscribe                         | d to the TIP service  |                          |                                  |
| SIP messages: SIP_MESSAGE_VA1: P-Asserte<br>SIP_MESSAGE_VA2: P-Asserte   |                       |                          |                                  |
| Comments:                                                                |                       |                          |                                  |
| Test equipment                                                           | AS                    | Test equip               | ment                             |
| INVITE                                                                   | <b>→</b>              | → INVITE                 |                                  |
| SIP_MESSAGE_VA 2                                                         | ÷                     | ← SIP_MESS               | AGE VA 1                         |
|                                                                          |                       |                          |                                  |
| TSS                                                                      | ТР                    | TIP/TIR                  | Selection expression             |
| Network entity/OrigNetw                                                  | TIP_N01_002           | reference<br>4.5.2.4     | PICS 4.5.1/3 AND<br>PICS 4.7.1/3 |
| Test purpose:                                                            |                       |                          |                                  |
| The originating user does not subscribe to the TIF                       | service P-Asserted-   | Identity header not pre  | sent                             |
| Ensure that the IUT acting as AS serving the origi                       |                       |                          |                                  |
| P-Asserted-Identity header fields included in the S                      | SIP response defined  | as SIP MESSAGE V         | A before forwarding the          |
| response.                                                                |                       |                          |                                  |
| Precondition: The originating user has not subsc                         | ribed to the TIP serv | ice                      |                                  |
| SIP_MESSAGE_VA1: P-Asserte<br>SIP_MESSAGE_VA2: P-Asserte                 | ed-Identity           |                          |                                  |
| Comments:                                                                | · ·                   |                          |                                  |
| Test equipment                                                           | AS                    | Test equip               | ment                             |
| INVITE                                                                   | <b>→</b>              | → INVITE                 |                                  |
| SIP_MESSAGE_VA 2                                                         | ←                     | SIP_MESS                 | AGE VA 1                         |
|                                                                          |                       |                          |                                  |
| TSS                                                                      | TP                    | TIP/TIR                  | Selection expression             |
| Network entity/OrigNetw                                                  | TIP_N01_003           | reference<br>4.5.2.4     | PICS 4.5.1/3 AND<br>PICS 4.7.1/3 |
| lest purpose:                                                            |                       |                          |                                  |
| The originating user does not subscribe to the TIF                       |                       |                          |                                  |
| Ensure that the IUT acting as AS serving the origi                       |                       |                          |                                  |
| Privacy header fields included in the SIP response                       | e defined as SIP_ME   | SSAGE_VA before for      | warding the response.            |
| Precondition: The originating user has not subsc                         | ribed to the TIP serv |                          |                                  |
| SIP messages: SIP_MESSAGE_VA1: Privacy: id<br>SIP_MESSAGE_VA2: Privacy h | d                     |                          |                                  |
| Comments:                                                                |                       |                          |                                  |
| lest equipment                                                           | AS                    | Test equip               | ment                             |
| · · · · · · · · · · · · · · · · · · ·                                    |                       |                          |                                  |

| lest equipment   | AS                          | l'est equipment  |
|------------------|-----------------------------|------------------|
| INVITE           | $\rightarrow$ $\rightarrow$ | INVITE           |
| SIP_MESSAGE_VA 2 | + +                         | SIP_MESSAGE_VA 1 |

| TSS<br>Signalling/TIR                                                                                     | TP<br>TIP_N01_004                                                                                 | TIP/TIR reference<br>4.6.3    | Selection expression<br>PICS 4.5.1/3 AND<br>PICS 4.7.1/3 AND |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------|
| -                                                                                                         |                                                                                                   |                               | PICS 4.7.1/7                                                 |
| Test purpose:                                                                                             |                                                                                                   |                               |                                                              |
| The originating user has TIR override c                                                                   |                                                                                                   |                               |                                                              |
| Ensure that, if the originating user has t                                                                | the override category, the AS re                                                                  | emoves Privacy header         | fields restricting the                                       |
| presentation of the terminating identity a                                                                | and sends the P-Asserted-Iden                                                                     | tity header in the SIP re     | esponse defined as                                           |
| SIP_MESSAGE_VA before forwarding                                                                          | the response                                                                                      | •                             | •                                                            |
|                                                                                                           | line response.                                                                                    |                               |                                                              |
|                                                                                                           |                                                                                                   | and Originating user h        | as the override category                                     |
| Precondition: The originating user has                                                                    | subscribed to the TIP service                                                                     |                               | as the override category                                     |
| Precondition: The originating user has<br>SIP messages: SIP_MESSAGE_VA1:                                  | subscribed to the TIP service                                                                     | id                            |                                                              |
| Precondition: The originating user has<br>SIP messages: SIP_MESSAGE_VA1:                                  | subscribed to the TIP service<br>P-Asserted-Identity, Privacy =                                   | id                            |                                                              |
| Precondition: The originating user has<br>SIP messages: SIP_MESSAGE_VA1:<br>SIP_MESSAGE_VA2:              | subscribed to the TIP service<br>P-Asserted-Identity, Privacy =                                   | id                            | ione                                                         |
| Precondition: The originating user has<br>SIP messages: SIP_MESSAGE_VA1:<br>SIP_MESSAGE_VA2:<br>Comments: | subscribed to the TIP service<br>P-Asserted-Identity, Privacy =<br>P-Asserted-Identity, no Privac | id<br>y header or Privacy = r | ione                                                         |

| -     |             |                                                      |  |
|-------|-------------|------------------------------------------------------|--|
|       |             | Values for tests purposes TIP_N01_001 to TIP_N02_004 |  |
| VA 01 | 180 Rinaina |                                                      |  |

| VA_01 | 180 Ringing          |
|-------|----------------------|
| VA_02 | 183 Session progress |
| VA_03 | 200 OK               |

| TSS                                           | TP                           | TIP/TIR reference          | Selection expression |
|-----------------------------------------------|------------------------------|----------------------------|----------------------|
| Network entity/OrigAS                         | TIP_N01_005                  | 4.5.2.4                    | PICS 4.5.1/3 AND     |
|                                               |                              |                            | PICS 4.7.1/3         |
| Test purpose:                                 |                              |                            |                      |
| The originating user subscribes to the TIP se | ervice. The "from-change'    | " tag is passed on.        |                      |
| Ensure that the IUT acting as AS serving the  | originating user that sub    | scribes to the TIP service | e passes on the      |
| "from change" tag within the Supported head   | ler in a received initial IN | VITE request before for    | warding the request. |
| Precondition: The originating user has subs   | cribed to the TIP service    |                            |                      |
| SIP message: INVITE1 Supported "from-c        | hange"                       |                            |                      |
| INVITE2 Supported "from-c                     | hange"                       |                            |                      |
| Comments:                                     |                              |                            |                      |
| Test equipment                                | AS                           | Test equip                 | ment                 |
| INVITE1 with "from-change" tag                | <b>→</b>                     | → INVITE2 wi               | th "from-change" tag |

| TSS                                                     | TP                  | TIP/TIR reference       | Selection expression    |
|---------------------------------------------------------|---------------------|-------------------------|-------------------------|
| Network entity/OrigAS                                   | TIP_N01_006         | 4.5.2.4                 | PICS 4.5.1/3 AND        |
|                                                         |                     |                         | PICS 4.7.1/3            |
| Test purpose:                                           |                     |                         |                         |
| The originating user subscribes to the TIP service. The | he "from-change" ta | g is not received.      |                         |
| Ensure that the IUT acting as AS serving the originat   |                     |                         |                         |
| INVITE request without the "from-change" tag in the     | Supported header,   | does not insert the "fr | om-change" tag into the |
| Supported header before forwarding the request.         |                     |                         |                         |
| Precondition: The originating user has subscribed to    | o the TIP service   |                         |                         |
| SIP message: INVITE1 Supported "from-change"            | not included        |                         |                         |
| INVITE2 Supported "from-change"                         | not included        |                         |                         |
| Comments:                                               |                     |                         |                         |
| Test equipment                                          | AS                  | Test equip              | ment                    |
| INVITE1 without "from-change" tag                       | <b>→</b>            | → INVITE2 wit           | th "from-change" tag    |

| TSS                                                    | TP                           | TIP/TIR reference        | Selection expression   |
|--------------------------------------------------------|------------------------------|--------------------------|------------------------|
| Network entity/OrigAS                                  | TIP_N01_007                  | 4.5.2.4                  | PICS 4.5.1/3 AND       |
|                                                        |                              |                          | PICS 4.7.1/3           |
| Test purpose:                                          |                              |                          |                        |
| The originating user does not subscribe to the header. | e TIP service. The "from-    | change" tag is removed   | I from the Supported   |
| Ensure that the IUT acting as AS serving the           | originating user that does   | s not subscribe to the T | IP service removes the |
| "from-change" tag from the Supported heade             | r in a received initial INVI | TE request before forw   | arding the request.    |
| Precondition: The originating user has not s           | ubscribed to the TIP serv    | rice                     |                        |
| SIP message: INVITE1 Supported "from-cl                | nange"                       |                          |                        |
| INVITE2 Supported "from-cl                             | nange" not included          |                          |                        |
| Comments:                                              | ~                            |                          |                        |
| Test equipment                                         | AS                           | Test equip               | ment                   |
|                                                        |                              |                          |                        |
| INVITE1 with "from-change" tag                         | <b>→</b>                     | → INVITE2                |                        |

# 5.2.3 Actions at the AS serving the terminating UE

| TSS                                                                                     | TP                                 | TIP/TIR               | Selection expression        |
|-----------------------------------------------------------------------------------------|------------------------------------|-----------------------|-----------------------------|
| Network entity/DestAS                                                                   | TIP_N02_001                        | reference             | PICS 4.5.1/3 AND            |
| -                                                                                       |                                    | 4.5.2.9               | PICS 4.7.1/4 AND            |
|                                                                                         |                                    |                       | PICS 4.7.1/6                |
| Test purpose:                                                                           |                                    | ·                     |                             |
| The AS inserts the Privacy id value in the subscribes to <b>TIR in permanent mode</b> . |                                    | s not contain any Pr  | ivacy. The terminating user |
| Ensure that the IUT acting as AS servin                                                 | g the terminating user that subso  | cribes to TIR in "per | manent mode", receiving a   |
| 1xx or 2xx response message defined a                                                   |                                    |                       |                             |
| header with privacy value "id" before for                                               |                                    |                       | -                           |
| Precondition: The terminating user has                                                  | s subscribed to the TIR service in | n permanent mode      |                             |
| SIP messages: SIP_MESSAGE_VA1                                                           |                                    | •                     |                             |
| SIP_MESSAGE_VA2:                                                                        | Privacy: id                        |                       |                             |
|                                                                                         |                                    |                       |                             |
| Comments:                                                                               |                                    |                       |                             |
| Comments:<br>Test equipment                                                             | AS                                 | Test equ              | ipment                      |
|                                                                                         | AS<br>➔                            | Test equ<br>➔ INVITE  | ipment                      |

| TSS                                                                                     | ТР                        | TIP/T           | IR reference     | Selection expression     |
|-----------------------------------------------------------------------------------------|---------------------------|-----------------|------------------|--------------------------|
| Network entity/DestAS                                                                   | TIP_N02_0                 | 002 4.5.2       | .9               | PICS 4.5.1/3 AND         |
| -                                                                                       |                           |                 |                  | PICS 4.7.1/4 AND         |
|                                                                                         |                           |                 |                  | PICS 4.7.1/6             |
| Test purpose:                                                                           |                           |                 |                  |                          |
| The AS inserts the Privacy id value in the subscribes to <b>TIR in permanent mode</b> . |                           | ise contains Pi | rivacy "none". 1 | The terminating user     |
| Ensure that the IUT acting as AS servin                                                 | g the terminating user th | at subscribes t | to TIR in "perm  | anent mode", receiving a |
| 1xx or 2xx response message defined a                                                   |                           |                 |                  |                          |
| "none" and insert a Privacy header with                                                 | privacy value "id" before | forwarding the  | e response.      |                          |
| Precondition: The terminating user has                                                  | subscribed to the TIR s   | ervice in perm  | anent mode       |                          |
| SIP messages: SIP_MESSAGE_VA1                                                           | Privacy: none             | -               |                  |                          |
| SIP_MESSAGE_VA2:                                                                        | Privacy: id               |                 |                  |                          |
| Comments:                                                                               |                           |                 |                  |                          |
| Test equipment                                                                          |                           | AS              | Test equipm      | ent                      |
| INVITE                                                                                  | <b>→</b>                  | ÷               |                  |                          |
|                                                                                         |                           |                 |                  |                          |

| TSS                                                      | ТР                    | TIP/TIR reference          | Selection expression                 |
|----------------------------------------------------------|-----------------------|----------------------------|--------------------------------------|
| Network entity/DestAS                                    | TIP_N02_003           | 4.5.2.9                    | PICS 4.5.1/3 AND                     |
| Network entity/DestAS                                    | TIF_INU2_003          | 4.3.2.9                    | PICS 4.5.1/3 AND<br>PICS 4.7.1/4 AND |
|                                                          |                       |                            | PICS 4.7.1/4 AND<br>PICS 4.7.1/5     |
| Test purpose:                                            |                       |                            | FIC3 4.7.1/5                         |
| The AS inserts the Privacy id value in the response it   | f the response door   | not contain any Priva      | ov. The user subseribes              |
| TIR temporary mode with default "presentation res        |                       | The contain any The        | cy. The user subscribes              |
| Ensure that the IUT acting as AS serving the termina     |                       | ribes to TIP in "tempo     | rany mode" with default              |
| value "presentation restricted", receiving a 1xx or 2xx  |                       |                            |                                      |
| Privacy header, the AS shall insert a Privacy header     |                       |                            |                                      |
| <b>Precondition:</b> The terminating user has subscribed |                       |                            |                                      |
| SIP messages: SIP_MESSAGE_VA1                            |                       | rtemporary mode pre        | Sentation restricted                 |
| SIP_MESSAGE_VA1<br>SIP_MESSAGE_VA2: Privacy: id          |                       |                            |                                      |
| Comments:                                                |                       |                            |                                      |
| Test equipment                                           | AS                    | Test equipme               | ent                                  |
|                                                          |                       | root oquipint              |                                      |
| INVITE                                                   | <b>→</b>              | → INVITE                   |                                      |
|                                                          | ÷                     | ← SIP_MESSAG               | SE VA 1                              |
|                                                          |                       |                            |                                      |
|                                                          |                       |                            |                                      |
| TSS                                                      | TP                    | TIP/TIR reference          | Selection expression                 |
| Network entity/DestAS                                    | TIP_N02_004           | 4.5.2.9                    | PICS 4.5.1/3 AND                     |
|                                                          |                       |                            | PICS 4.7.1/4 AND                     |
|                                                          |                       |                            | PICS 4.7.1/5                         |
| Test purpose:                                            |                       |                            |                                      |
| The AS passes the Privacy value 'id' in the response     | . The user subscrib   | es <b>TIR temporary mo</b> | <b>de</b> with default               |
| "presentation not restricted".                           |                       |                            |                                      |
| Ensure that the IUT acting as AS serving the termina     |                       |                            |                                      |
| value "presentation not restricted", receiving a 1xx or  |                       |                            |                                      |
| Privacy header set to 'id', the AS shall pass Privacy h  | neader with the priva | acy value before forwa     | rding the response.                  |
| Precondition: The terminating user has subscribed        | to the TIR service ir | n temporary mode "pre      | sentation not restricted"            |
| SIP messages: SIP_MESSAGE_VA1: Privacy: id               |                       |                            |                                      |
| SIP_MESSAGE_VA2: Privacy: id                             |                       |                            |                                      |
| Comments:                                                |                       |                            |                                      |
| Test equipment                                           | AS                    | Test equipme               | ent                                  |
|                                                          | •                     |                            |                                      |
|                                                          | <b>→</b>              |                            |                                      |
| SIP_MESSAGE_VA                                           | ←                     | SIP_MESSAG                 | jE_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                                                                                                                                                                                    | ТР                                                                                           | TIP/TIR reference                                              | Selection expression    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------|
| Network entity/DestAS                                                                                                                                                                  | TIP_N02_005                                                                                  | 4.5.2.9                                                        | PICS 4.5.1/3 AND        |
| -                                                                                                                                                                                      |                                                                                              |                                                                | PICS 4.7.1/4 AND        |
|                                                                                                                                                                                        |                                                                                              |                                                                | PICS 4.7.1/6            |
| Test purpose:                                                                                                                                                                          |                                                                                              |                                                                |                         |
| The AS remove the "from-change" tag from                                                                                                                                               | n the Supported header. Th                                                                   | e user subscribes <b>TIR i</b>                                 | n permanent mode.       |
| Ensure that the IUT acting as AS serving th                                                                                                                                            | e terminating user that sub                                                                  | scribes to the TIR servi                                       | ce in "nermanent mode"  |
| Ensure that the for adding as no serving th                                                                                                                                            |                                                                                              |                                                                |                         |
|                                                                                                                                                                                        |                                                                                              |                                                                |                         |
| removes the "from-change" tag from the Su                                                                                                                                              |                                                                                              |                                                                |                         |
| removes the "from-change" tag from the Su<br>request.                                                                                                                                  | upported header in a receive                                                                 | ed initial INVITE reques                                       |                         |
| removes the "from-change" tag from the Su<br>request.<br><b>Precondition:</b> The terminating user has su                                                                              | upported header in a receiven                                                                | ed initial INVITE reques                                       |                         |
| removes the "from-change" tag from the Su<br>request.<br><b>Precondition:</b> The terminating user has su                                                                              | upported header in a receiven<br><u>ibscribed to the TIR service</u><br>n-change"            | ed initial INVITE reques                                       |                         |
| removes the "from-change" tag from the Su<br>request.<br>Precondition: The terminating user has su<br>SIP messages: INVITE1 Supported: "from<br>INVITE2 Supported witho                | upported header in a receiven<br><u>ibscribed to the TIR service</u><br>n-change"            | ed initial INVITE reques                                       |                         |
| removes the "from-change" tag from the Su<br>request.<br>Precondition: The terminating user has su<br>SIP messages: INVITE1 Supported: "from                                           | upported header in a receiven<br><u>ibscribed to the TIR service</u><br>n-change"            | ed initial INVITE reques                                       | t before forwarding the |
| removes the "from-change" tag from the Su<br>request.<br>Precondition: The terminating user has su<br>SIP messages: INVITE1 Supported: "from<br>INVITE2 Supported without<br>Comments: | upported header in a receiv<br>lbscribed to the TIR service<br>n-change"<br>ut "from-change" | ed initial INVITE reques<br>in permanent mode<br>Test equipmen | t before forwarding the |

| TSS<br>Signalling/DestAS | TP<br>TIP_N02_006 | TIP/TIR reference<br>4.5.2.9 | Selection expression<br>PICS 4.5.1/3 AND<br>PICS 4.7.1/8 |
|--------------------------|-------------------|------------------------------|----------------------------------------------------------|
|--------------------------|-------------------|------------------------------|----------------------------------------------------------|

#### Test purpose:

The terminating user is not subscribed to the "no screening" special arrangement From header value does not match.

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.

| anangementi                                               |                     |              |            |                   |  |  |  |
|-----------------------------------------------------------|---------------------|--------------|------------|-------------------|--|--|--|
| SIP messages: INVITE: Supported: from-change              |                     |              |            |                   |  |  |  |
| UPDATE1: From <connected identity="" user=""></connected> |                     |              |            |                   |  |  |  |
| UPDATE2: From <public identity="" user=""></public>       |                     |              |            |                   |  |  |  |
| Precondition: Terminating user is                         | not subscribed to t | he "no scree | ening" spe | ecial arrangement |  |  |  |
| Comments:                                                 |                     |              |            |                   |  |  |  |
| Test equipment                                            |                     | AS           |            | Test equipment    |  |  |  |
| INVITE                                                    | <b>→</b>            |              | <b>→</b>   | INVITE            |  |  |  |
| 180 Ringing                                               | +                   |              | ←          | 180 Ringing       |  |  |  |
| 200 OK INVITE                                             | +                   |              | ←          | 200 OK INVITE     |  |  |  |
| ACK                                                       | <b>→</b>            |              | <b>→</b>   | ACK               |  |  |  |
| UPDATE2                                                   | +                   |              | ←          | UPDATE1           |  |  |  |
| 200 OK UPDATE                                             | <b>→</b>            |              | <b>→</b>   | 200 OK UPDATE     |  |  |  |

| TSS<br>Signalling/DestAS                                                                                                                                                                                                      | TP<br>TIP_N02_007                                      |                  | IP/TIR reference<br>.5.2.9                    | Selection expression<br>PICS 4.5.1/3 AND<br>PICS 4.7.1/8 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------|-----------------------------------------------|----------------------------------------------------------|
| <b>Test purpose:</b><br><i>The terminating user is not subscribed to th</i><br>Ensure that, if the IUT attempt to match the<br>identities for the served user and if a match<br>terminating user is not subscribed to the "no | information in the From I<br>is found, the AS passes   | neader<br>the va | r with the set of regi<br>lue of the From hea | istered public user                                      |
| SIP messages: INVITE: Supported: from-<br>18x/200: Supported: from-<br>UPDATE1: From <public to<br="">UPDATE2: From <public to<br="">Precondition: Terminating user is not subs<br/>Comments:</public></public>               | -change<br>user identity><br>user identity>            | ng" sp           | ecial arrangement                             |                                                          |
| Test equipment                                                                                                                                                                                                                | AS                                                     |                  | Test equipmen                                 | t                                                        |
| INVITE<br>180 Ringing<br>200 OK INVITE<br>ACK                                                                                                                                                                                 | <ul> <li>→</li> <li>←</li> <li>←</li> <li>→</li> </ul> | * + + +          | INVITE<br>180 Ringing<br>200 OK INVITE<br>ACK |                                                          |
| UPDATE2<br>200 OK UPDATE                                                                                                                                                                                                      | <b>←</b><br>→                                          | <b>←</b><br>→    | UPDATE1<br>200 OK UPDAT                       | E                                                        |

| TSS                                | TP                                                                                   |                | TIP/TIR reference                 | Selection expression  |
|------------------------------------|--------------------------------------------------------------------------------------|----------------|-----------------------------------|-----------------------|
| Signalling/DestAS                  | TIP.                                                                                 | _N02_008       | 4.5.2.9                           | PICS 4.5.1/3 AND      |
|                                    |                                                                                      |                |                                   | PICS 4.7.1/8          |
| Test purpose:                      |                                                                                      |                |                                   |                       |
| The terminating user is subscrib   |                                                                                      |                |                                   |                       |
| Ensure that, if the IUT passes the | ne information in the From                                                           | header in the  | UPDATE request if th              | e terminating user is |
| subscribed to the "no screening    | " special arrangement.                                                               |                |                                   |                       |
| SIP messages: INVITE: Suppo        | orted: from-change                                                                   |                |                                   |                       |
| 18x/200: Supp                      | orted: from-change                                                                   |                |                                   |                       |
|                                    | om <connected ident<="" th="" user=""><th>itv&gt;</th><td></td><td></td></connected> | itv>           |                                   |                       |
|                                    | om <connected ident<="" th="" user=""><th></th><td></td><td></td></connected>        |                |                                   |                       |
| Precondition: Terminating use      | r is subscribed to the "no s                                                         | screening" spe | cial arrangement                  |                       |
| Comments:                          |                                                                                      | U              | 0                                 |                       |
| Test equipment                     |                                                                                      | AS             | Test equipmen                     | t                     |
| INVITE                             | <b>→</b>                                                                             | ÷              |                                   |                       |
| 180 Ringing                        | +                                                                                    | +              | <ul> <li>180 Ringing</li> </ul>   |                       |
| 200 OK INVITE                      | +                                                                                    | €              | <ul> <li>200 OK INVITE</li> </ul> |                       |
| ACK                                | <b>→</b>                                                                             | -              | ACK                               |                       |
| UPDATE2                            | +                                                                                    | ÷              | UPDATE1                           |                       |
| 200 OK UPDATE                      | <b>→</b>                                                                             | -              | 200 OK UPDAT                      | E                     |

# 5.2.4 Actions at the terminating UE

| TSS                                                                                                         | ТР                    | TIP/TIR reference      | Selection expression |  |  |  |
|-------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|--|--|--|
| User/TermUserE                                                                                              | TIP_U02_001           | 4.5.2.12               | PICS 4.5.1/2 AND     |  |  |  |
|                                                                                                             |                       |                        | PICS 4.6.1/1         |  |  |  |
| Test purpose:                                                                                               |                       |                        |                      |  |  |  |
| The Terminating UE supports the "from-change" tag                                                           |                       |                        |                      |  |  |  |
| 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 initia                                                        |                       |                        | tag in the Supported |  |  |  |
| header in any provisional or final response message                                                         | e (e.g. 180, 183, 200 | ).                     |                      |  |  |  |
| SIP messages: INVITE: Supported: from-change                                                                |                       |                        |                      |  |  |  |
| SIP_MESSAGE_VA: Supported: f                                                                                | rom-change            |                        |                      |  |  |  |
| Comments:                                                                                                   |                       |                        |                      |  |  |  |
| Test equipment                                                                                              |                       | User equipmen          | t                    |  |  |  |
| INVITE with "from-change" tag                                                                               | <b>→</b>              |                        |                      |  |  |  |
| SIP_MESSAGE_VA                                                                                              | ÷                     |                        |                      |  |  |  |
|                                                                                                             |                       |                        |                      |  |  |  |
|                                                                                                             |                       |                        |                      |  |  |  |
| TSS                                                                                                         | ТР                    | TIP/TIR reference      | Selection expression |  |  |  |
| User/TermUserE                                                                                              | TIP_U02_002           | 4.5.2.12               | PICS 4.5.1/2 AND     |  |  |  |
|                                                                                                             |                       |                        | PICS 4.6.1/2         |  |  |  |
| Test purpose:                                                                                               |                       | · <del>-</del> · ·     |                      |  |  |  |
| The Terminating UE sends an UPDATE request with                                                             |                       |                        |                      |  |  |  |
| Ensure that the Terminating UE supports the "from<br>"from-change" tag in a Supported header in an initia   |                       |                        |                      |  |  |  |
| ACK for the 200 OK INVITE was received containing                                                           |                       |                        |                      |  |  |  |
| SIP messages: INVITE: Supported: from-change                                                                | y a connected identi  | ty in the From header. |                      |  |  |  |
| 180/200: Supported: from-change                                                                             |                       |                        |                      |  |  |  |
| UPDATE: From <identity equ<="" td="" user=""><td>ipment&gt;</td><td></td><td></td></identity>               | ipment>               |                        |                      |  |  |  |
| Comments:                                                                                                   |                       |                        |                      |  |  |  |
| Test equipment                                                                                              |                       | User equipmen          | t                    |  |  |  |
|                                                                                                             |                       |                        |                      |  |  |  |
| INVITE with "from-change" tag                                                                               | →                     |                        |                      |  |  |  |
| 180 Ringing                                                                                                 | +                     |                        |                      |  |  |  |
| 200 OK INVITE                                                                                               | +                     |                        |                      |  |  |  |
| ACK                                                                                                         | <b>→</b>              |                        |                      |  |  |  |
| UPDATE with updated From and To                                                                             | ←                     |                        |                      |  |  |  |
| header                                                                                                      | ->                    |                        |                      |  |  |  |
| 200 OK UPDATE                                                                                               | <b>→</b>              |                        |                      |  |  |  |

The Terminating UE overrides a default "Presentation not restricted" by sending Privacy "id".

Ensure that the Terminating UE having subscribed to TIR temporary mode, default value "presentation not restricted", to override the default TIR setting, sends a Privacy header with value "id" in any non 100 response message (e.g. 180, 183, 200).

| SIP messages:               | SIP_MESSAGE_VA: Privacy: "id" |
|-----------------------------|-------------------------------|
| Comments:<br>Test equipment | User equipment                |
| INVITE<br>SIP MESSAGE       | ×<br>∀A ←                     |

| TSS            | TP          | TIP/TIR reference | Selection expression |
|----------------|-------------|-------------------|----------------------|
| User/TermUserE | TIP_U02_004 | 4.5.2.12          | PICS 4.5.1/2         |
| Test purpose:  |             |                   |                      |

| The Terminating UE overrides a default "Presentation restricted" by sending Privacy "none".                         |                                                                         |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|--|--|--|
| Ensure that the Terminating UE having subscribed to TIR temporary mode, default value "presentation restricted", to |                                                                         |  |  |  |  |
| override the default TIR setting sends a Priv                                                                       | acy header with value "none" in any non 100 response message (e.g. 180, |  |  |  |  |
| 183, 200).                                                                                                          |                                                                         |  |  |  |  |
|                                                                                                                     |                                                                         |  |  |  |  |
| SIP messages: SIP_MESSAGE_VA: Priva                                                                                 | cy: "none"                                                              |  |  |  |  |
| Comments:                                                                                                           |                                                                         |  |  |  |  |
| Test equipment                                                                                                      | User equipment                                                          |  |  |  |  |
|                                                                                                                     |                                                                         |  |  |  |  |
| INVITE                                                                                                              | <b>→</b>                                                                |  |  |  |  |
| SIP_MESSAGE_VA                                                                                                      | ÷                                                                       |  |  |  |  |

|       | Values for tests purposes TIP_U02_001 and TIP_U02_003 to TIP_U02_004 |  |  |  |  |
|-------|----------------------------------------------------------------------|--|--|--|--|
| VA_01 | 180 Ringing                                                          |  |  |  |  |
| VA_02 | 183 Session progress                                                 |  |  |  |  |
| VA_03 | 200 OK                                                               |  |  |  |  |

# 5.3 Interaction with other services

### 5.3.1 Communication diversion services

| TSS                                         | TP                     | Т            | IP/TIR reference     | Selection expression       |
|---------------------------------------------|------------------------|--------------|----------------------|----------------------------|
| Interaction/CDIV                            | TIP_N03_               | 001 4.       | .6.7                 | 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 communication c | liversion se | ervice selects the o | ption that the originating |
| user is notified of diversion with the d    | iverted-to address and | d the divert | ed-to user has sub   | scribed to the <b>TIR</b>  |
| service in permanent mode and the orig      |                        |              |                      |                            |
| P-Asserted-Identity header including the    |                        |              |                      |                            |
| is sent within the SIP_MESSAGE_VA res       |                        | g user. The  | e History-Info Head  | er entry identifying the   |
| diverted-to user is removed from the Hist   |                        |              |                      |                            |
| Precondition: Test equipment (Diverting     |                        |              | iversion unconditio  | nal with option            |
| originating user is notified of diversion w |                        | ess".        |                      |                            |
| SIP messages: 181: History-Info diverte     | ed-to URI not present  |              |                      |                            |
| SIP_MESSAGE_VA 2                            |                        |              |                      |                            |
| History-Info diverted                       | d-to URI not present   |              |                      |                            |
| Privacy: id                                 |                        |              |                      |                            |
| Comments:                                   |                        |              |                      |                            |
| Test equipment (Originating user)           | SUT                    |              | Test equipmen        | t (Diverted-to user)       |
| INVITE                                      | <b>→</b>               | <b>→</b>     | INVITE               |                            |
| 181 Call is being forwarded                 | <del>,</del>           | 7            |                      |                            |
| History-Info header without URI of the      | <b>V</b>               |              |                      |                            |
| diverted-to user                            |                        |              |                      |                            |
| SIP_MESSAGE_VA 2                            | ←                      | ←            | SIP MESSAGE          | V/A 1                      |
| without P-Asserted-Identity                 | <b>N</b> -             | Υ.           | SIF_IVIESSAGE        |                            |
| Without i Asserted-Identity                 |                        |              |                      |                            |

| TSS                                                       | TP                   | TIP/TIR reference      | Selection expression              |
|-----------------------------------------------------------|----------------------|------------------------|-----------------------------------|
| Interaction/CDIV                                          | TIP_N03_002          | 4.6.7                  | 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 comm    | nunication diversion | service selects the op | otion that <b>the originating</b> |
| user is notified of diversion with the diverted-to a      |                      |                        |                                   |
| service in temporary mode default "presentation           | restricted" and the  | originating user has s | subscribed to the TIP             |
| service, when the diverted-to user has send no Priva      |                      |                        |                                   |
| P-Asserted-Identity header including the URI of the c     |                      |                        |                                   |
| the originating user. The History-Info Header entry id    |                      |                        |                                   |
| header.                                                   | , ,                  |                        | 2                                 |
| Precondition: Test equipment (Diverting user) activation  | ates Communicatior   | diversion uncondition  | nal with option                   |
| "originating user is notified of diversion with the diver | ted-to address".     |                        | -                                 |
| SIP messages: 181: History-Info diverted-to URI no        | ot 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 -                                                  | <b>→</b>             | 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<br>Interaction/CDIV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TP<br>TIP_N03_003                                                                                                                                                                                                        |                                                                           | TIR reference<br>7                                                                                    | Selection expression<br>PICS 4.5.1/3 AND<br>PICS 4.7.1/1 AND<br>PICS 4.7.2/1 AND<br>PICS 4.7.2/2             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Test purpose:<br>Ensure that if the served (diverting) user of<br>user is notified of diversion with the diversion<br>service in temporary mode default "press<br>service, when the diverted-to user has send<br>response, no P-Asserted-Identity header in<br>SIP_MESSAGE_VA response to the originating<br>removed from the History -Info header.<br>Precondition: Test equipment (Diverting u<br>"originating user is notified of diversion with<br>SIP messages: 181: History-Info diverted<br>SIP_MESSAGE_VA 1<br>Privacy: id<br>SIP_MESSAGE_VA 2<br>History-Info diverted-to<br>Privacy: id | erted-to address and the<br>entation not restricted'<br>d a Privacy header with<br>cluding the URI of the div<br>ating user. The History-In<br>ser) activates Communic<br>the diverted-to address"<br>to URI not present | e diverted<br>' and the o<br><b>value "id</b><br>verted-to u<br>nfo Heade | -to user has sub<br>originating user<br>" within the SIP<br>user is sent within<br>r entry identifyin | scribed to the <b>TIR</b><br>has subscribed to the TIP<br>_MESSAGE_VA<br>in the<br>g the diverted-to user is |
| Comments:<br>Test equipment (Originating user)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SUT                                                                                                                                                                                                                      |                                                                           | Test equipmen                                                                                         | t (Diverted-to user)                                                                                         |
| INVITE<br>181 Call is being forwarded<br>History-Info header without URI of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | →<br>←                                                                                                                                                                                                                   | <b>→</b>                                                                  | INVITE                                                                                                |                                                                                                              |
| diverted-to user<br>SIP_MESSAGE_VA 2<br>without P-Asserted-Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del>&lt;</del>                                                                                                                                                                                                          |                                                                           | SIP_MESSAGE<br>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               |  |  |

# History

| Document history |              |             |  |
|------------------|--------------|-------------|--|
| V5.1.1           | October 2012 | Publication |  |
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