



**Core Network and Interoperability Testing (INT);  
Explicit Communication Transfer (ECT) using  
IP Multimedia (IM) Core Network (CN) subsystem;  
Conformance Test Specification (3GPP™ Release 12);  
Part 2: Test Suite Structure and Test Purposes (TSS&TP)**

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**Reference**

RTS/INT-00152-2

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**Keywords**

conformance, ECT, IMS, testing, TSS&amp;TP

**ETSI**

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# Foreword

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

The present document is part 2 of a multi-part deliverable covering the Conformance Test Specification of Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem, as identified below:

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

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

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# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

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# 1 Scope

The present document provides the Test Suite Structure and Test Purposes (TSS&TP) for the protocol specification Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem as defined in ETSI TS 124 629 [1] in compliance with the relevant requirements.

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## 2 References

### 2.1 Normative 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 <https://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

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

- [1] ETSI TS 124 629: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification (3GPP TS 24.629 Release 12)".
- [2] ETSI TS 101 594-1: "Core Network and Interoperability Testing (INT); Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (3GPP™ Release 12); Part 1: Protocol Implementation Conformance Statement (PICS)".
- [3] ETSI TS 124 628: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Common Basic Communication procedures using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification (3GPP TS 24.628 Release 12)".

### 2.2 Informative 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.

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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.

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## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in ETSI TS 124 629 [1] apply.

## 3.2 Symbols

For the purposes of the present document, the symbols given in ETSI TS 124 629 [1] apply.

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 124 629 [1] and the following apply:

ACR-CB	Anonymous Communication Rejection- Communication Barring
ISC	IM-CN Service Control
IUT	Implementation Under Test
NNI	Network Network Interface
PIXIT	Protocol Implementation eXtra Information for Testing
SIP	Session Initiation Protocol
SUT	System Under Test
TP	Test Purpose
UE	User Equipment
URI	Uniform Resource Identifier

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# 4 Test Suite Structure (TSS) and configuration

## 4.1 Test Suite Structure

<b>Netw</b>	<b>TransferorAS</b>	ECT_N01_xxx
	<b>TransfereeAS</b>	ECT_N02_xxx
<b>User</b>	<b>Transferor</b>	ECT_U01_xxx
	<b>Transferee</b>	ECT_U02_xxx
	<b>TransferTarget</b>	ECT_U03_xxx
<b>Interaction</b>	<b>OIR</b>	ECT_N03_xxx
	<b>ACR-CB</b>	ECT_N04_xxx
	<b>CONF</b>	ECT_N05_xxx
	<b>ECT</b>	ECT_N06_xxx

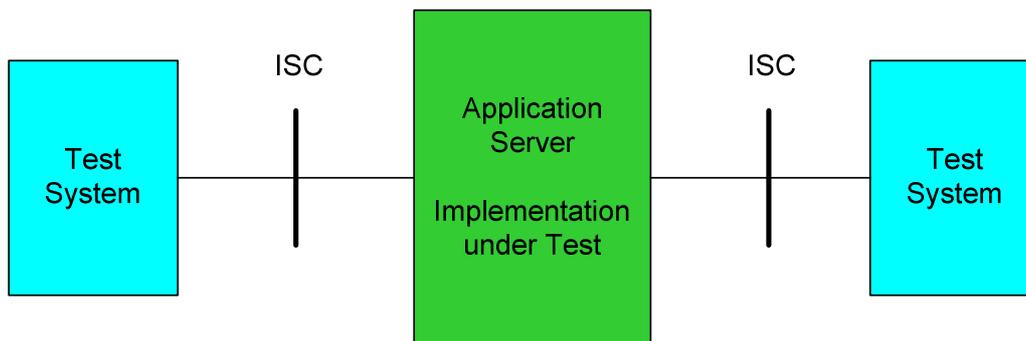
**Figure 4.1.1: Test suite structure**

## 4.2 Configuration

The scope of the present document is to test the signalling and procedural aspects of the stage 3 requirements as described in ETSI TS 124 629 [1]. The stage 3 description respects the requirements to several network entities and also to requirements regarding to end devices. Therefore several interfaces (reference points) are addressed to satisfy the test of the different entities.

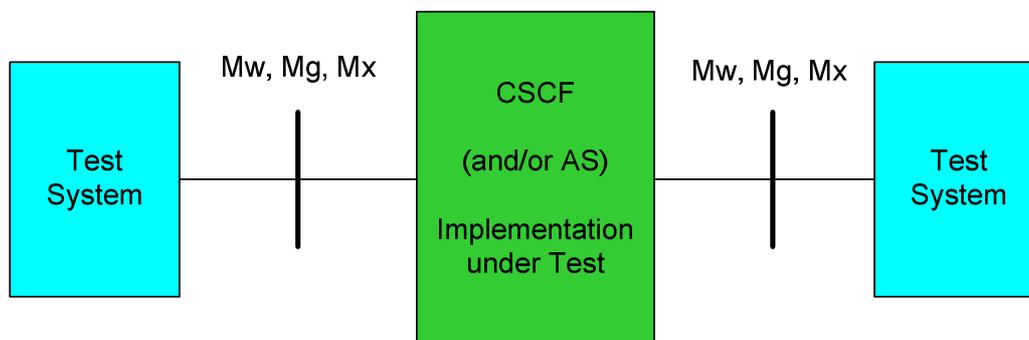
Therefore to test the appropriate entities the configurations below are applicable:

**Testing of the Application Server:** This entity is responsible to perform the service. Hence the ISC interface is the appropriate access point. Figure 4.2.1 points to this.



**Figure 4.2.1: Applicable interface to test AS functionalities**

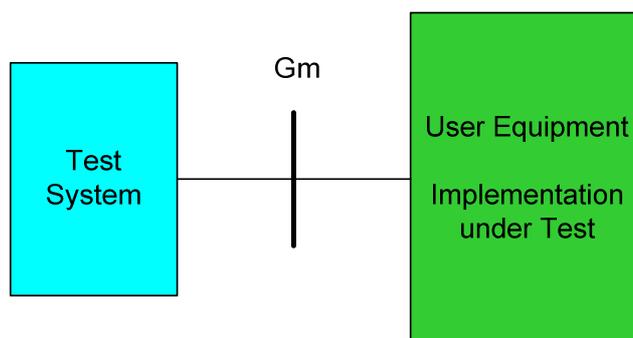
If the ISC interface is not accessible it is also applicable to perform the test of the AS using any NNI (Mw, Mg, Mx) interface (consider figure 4.2.2). In case only the Gm interface is accessible this shall be used instead. In this case, be aware that the verification of several requirements is impeded.



**Figure 4.2.2: Applicable interfaces to test using the (generic) NNI interface**

Figure 4.2.2 illustrates the usage of any NNI interface.

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



**Figure 4.2.3: Applicable configuration to test the User Equipment**

## 5 Test Purposes (TP)

### 5.1 Introduction

#### 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).

**Table 5.1.1: TP identifier naming convention scheme**

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

#### 5.1.2 Test strategy

As the base standard ETSI TS 124 629 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification ETSI TS 101 594-1 [2].

## 5.2 Signalling requirements

### 5.2.1 Actions at the Transferor UE

<b>TSS</b> User/Transferor	<b>TP</b> ECT_U01_001	<b>Reference</b> 4.5.2.1	<b>Selection expression</b> PICS 4.5.1/1 AND PICS 4.6.1/1																																																															
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<b>TSS</b> User/Transferor	<b>TP</b> ECT_U01_003	<b>Reference</b> 4.5.2.1	<b>Selection expression</b> PICS 4.5.1/1 AND PICS 4.6.1/3																																																																											
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<p><b>SIP header values:</b>          REFER1: Request URI: <b>Gm#2</b>                    Refer-To: contains <b>Gm#3 URI</b>; method=invite?Replaces=call-id1%3Bto-tag%3DSession1%3Bfrom-tag%3DSession1&amp; Require=replaces</p> <p>NOTIFY(100):Event contains <b>refer</b>                    message/sipfrag contains <b>SIP/2.0 100 Trying</b></p> <p>REFER2: Request URI: <b>Gm#2</b>                    Refer-To: contains <b>Gm#3 URI</b>; method=cancel  <b>CASE</b> Contact header of session #1 contains a GRUU                    Target-Dialog: &lt;Call-ID of session #1&gt; ;local-tag=&lt;From tag of the session #1&gt;;                                    remote-tag=&lt;To tag of the session #1&gt;</p>																																							
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## 5.2.2 Actions at the Transferor AS

TSS	TP	Reference	Selection expression																																																																																																																
Netw/TransferorAS	ECT_N01_001	4.5.2.4	PICS 4.5.1/2 AND PICS 4.7.1/2 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)																																																																																																																
<p><b>Test purpose</b>  <i>Communication transfer: Assured transfer. Transferor was originator of the originating call.</i>            Ensure that a Transferor can successfully transfer the communication with the transferee set on hold before and the Transferor is notified about the processing. After the communication between the Transferee and the Transfer Target is confirmed, the communication between Transferor and Transferee is terminated. The Transferor was the initiator of the originating communication.</p>																																																																																																																			
<p><b>SIP header values:</b>            REFER 1: Refer-To contains <b>ISC#3</b> URI; method=invite            Referred-By contains <b>ISC#1</b> URI  <b>CASE: Request received on a separate dialogue</b>            Target-Dialog: &lt;Call-ID of session #1&gt; ;local-tag=&lt;From tag of the session #1e&gt;;            remote-tag=&lt;To tag of the session #1&gt;  <b>CASE: Request received on the same dialogue</b>            Call-ID: &lt;session #1&gt;            REFER 2: Refer-To contains <b>ECT Session Identifier</b> URI; method=invite            Referred-By contains <b>ISC#ISC#1</b> URI            INVITE 3: Request URI = <b>ECT Session Identifier</b> URI            INVITE 4: Request URI = <b>ISC#3</b> URI            NOTIFY(100):Event contains <b>refer</b>            Subscription-State: <b>active;expires=(any value)</b>            message/sipfrag contains <b>SIP/2.0 100 Trying</b>            NOTIFY(200):Event contains <b>refer</b>            message/sipfrag contains <b>SIP/2.0 200 OK</b>            Subscription-State: terminated;reason=noresource</p>																																																																																																																			
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TSS Netw/TransferorAS	TP ECT_N01_002	Reference 4.5.2.4	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/2 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)																																																																																																																																																																																													
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TSS	TP	Reference	Selection expression
Netw/TransferorAS	ECT_N01_005	4.5.2.4	PICS 4.5.1/2 AND PICS 4.7.1/3 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)
	180 Ringing ←		← 180 Ringing
	180 Ringing →	180 Ringing	
	200 OK ←		← 200 OK
	200 OK →	200 OK	
			ACK → ACK
NOTIFY(200) ←		← NOTIFY(200)	
200 OK NOTIFY →		→ 200 OK NOTIFY	
BYE ←			← BYE
200 OK (BYE) →			→ 200 OK (BYE)
BYE →			→ BYE
200 OK (BYE) ←			← 200 OK (BYE)
<b>Communication ISC#2 with ISC#3</b>			
<b>Apply post test routine</b>			

TSS	TP	Reference	Selection expression
Netw/TransferorAS	ECT_N01_006	4.5.2.4	PICS 4.5.1/2 AND PICS 4.7.1/3 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)
<b>Test purpose</b>			
<i>Communication transfer: <b>Consultative transfer</b>. Transferee was originator of the originating call.</i>			
Ensure that a Transferor can successfully transfer the communication with the transferee set on hold before and the Transferor is notified about the processing. The Transferor has a session with Transferee and the Transfer target. The Transferor refers the Transferee to establish a session to the Transfer target. After the successful session between Transferee and Transfer target set on hold, the sessions of the Transferor are released by the Transferor. The Transferee was the initiator of the originating communication.			
<b>SIP header values:</b>			
REFER 1: Refer-To contains <b>ISC#3 URI</b> ; method=invite?Replaces=call-id1%3Bto-tag%3DS1%3Bfrom-tag%3DS1&Require=replaces Referred-By contains <b>ISC#1 URI</b>			
<b>CASE: Request received on a separate dialogue</b>			
Target-Dialog: <Call-ID of session #1> ;local-tag=<From tag of the session #1e>; remote-tag=<To tag of the session #1>			
<b>CASE: Request received on the same dialogue</b>			
Call-ID: <session #1>			
REFER 2: Refer-To contains <b>ECT Session Identifier URI</b> ; method=invite Referred-By contains <b>ISC#1 URI</b>			
INVITE 3: Request URI = <b>ECT Session Identifier URI</b> Referred-By contains <b>ISC#1 URI</b>			
INVITE 4: Request URI = <b>ISC#3 URI</b> Replaces=call-id1;to-tag=S1; from-tag=S1 Require: replaces Referred-By contains <b>ISC#1 URI</b>			
NOTIFY(100):Event contains <b>refer</b> Subscription-State: <b>active;expires=(any value)</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>			
NOTIFY(200):Event contains <b>refer</b> message/sipfrag contains <b>SIP/2.0 200 OK</b> Subscription-State: terminated;reason=noresource			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor Session #1</b>	<b>ISC#2</b>	<b>ISC#3</b>
INVITE ←		← INVITE 1	
180 Ringing →		→ 180 Ringing	
200 OK (INVITE) →		→ 200 OK (INVITE)	
ACK ←		← ACK	
INVITE (sendonly) →		→ INVITE (sendonly)	
200 OK (recvonly) ←		← 200 OK (recvonly)	
ACK →		→ ACK	

TSS	TP	Reference	Selection expression
Netw/TransferorAS	ECT_N01_006	4.5.2.4	PICS 4.5.1/2 AND PICS 4.7.1/3 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)
<b>Session #2</b>			
INVITE 2	→		→ INVITE
180 Ringing	←		← 180 Ringing
200 OK (INVITE)	←		← 200 OK (INVITE)
ACK	→		→ ACK
INVITE (sendonly)	→		→ INVITE (sendonly)
200 OK (recvonly)	←		← 200 OK (recvonly)
ACK	→		→ ACK
REFER 1	→	REFER	
		→ REFER 2	
		← 2xx OK REFER	
2xx OK REFER	←	2xx OK REFER	
INVITE (inactive)	←	← INVITE (inactive)	
200 OK (inactive)	→	→ 200 OK (inactive)	
ACK	←	← ACK	
NOTIFY(100)	←	← NOTIFY(100)	
200 OK NOTIFY	→	→ 200 OK NOTIFY	
		← INVITE 3	
		→ INVITE 4	→ INVITE
		← 180 Ringing	← 180 Ringing
		→ 180 Ringing	
		← 200 OK	← 200 OK
		→ 200 OK	
		ACK	→ ACK
NOTIFY(200)	←	← NOTIFY(200)	
200 OK NOTIFY	→	→ 200 OK NOTIFY	
BYE	←		← BYE
200 OK (BYE)	→		→ 200 OK (BYE)
BYE	→	→ BYE	
200 OK (BYE)	←	← 200 OK (BYE)	
<b>Communication ISC#2 with ISC#3</b>			
<b>Apply post test routine</b>			

TSS	TP	Reference	Selection expression
Netw/TransferorAS	ECT_N01_007	4.5.2.4.1.2.2	PICS 4.5.1/2
<b>Test purpose</b>			
<i>The method in the Refer-To header is not the 'INVITE' method.</i>			
Ensure that the REFER request is rejected if the Method in the Refer-To header used in this dialogue is not the INVITE method e.g. BYE.			
<b>SIP header values:</b>			
REFER: Refer-To contains <b>ISC#3</b> URI; method=BYE Referred-By contains <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
INVITE	→	→ INVITE	
180 Ringing	←	← 180 Ringing	
200 OK (INVITE)	←	← 200 OK (INVITE)	
ACK	→	→ ACK	
INVITE (sendonly)	→	→ INVITE (sendonly)	
200 OK (recvonly)	←	← 200 OK (recvonly)	
ACK	→	→ ACK	
<b>ISC#1 transfers ISC#2 to ISC#3</b>			
REFER	→	→ REFER	
4xx or 5xx or 6xx Response	←	← 4xx or 5xx or 6xx Response	
<b>Apply post test routine</b>			

<b>TSS</b>	<b>TP</b> ECT_N01_008	<b>Reference</b> 4.5.2.4.1.2.2	<b>Selection expression</b> PICS 4.5.1/2
<b>Test purpose</b> <i>The request-URI is not targeted at the same UE instance that is involved in the dialog.</i> Ensure that the ECT simulation service does not apply if the Request URI is not the Transferee URI. The REFER request is rejected.			
<b>SIP header values:</b> REFER: Request URI contained the <b>other URI (PIXIT)</b> Refer-To contains the URI of <b>ISC#3</b> , method=invite Referred-By contains SIP or tel URI of <b>ISC#1</b>			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
INVITE	→	→ INVITE	
180 Ringing	←	← 180 Ringing	
200 OK (INVITE)	←	← 200 OK (INVITE)	
ACK	→	→ ACK	
INVITE (sendonly)	→	→ INVITE (sendonly)	
200 OK (recvonly)	←	← 200 OK (recvonly)	
ACK	→	→ ACK	
REFER	→	REFER	
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
<b>Apply post test routine</b>			

<b>TSS</b> Netw/TransferorAS	<b>TP</b> ECT_N01_009	<b>Reference</b> 4.5.2.4.1.2.2	<b>Selection expression</b> PICS 4.5.1/2
<b>Test purpose</b> <i>There is no method parameter contained in the Refer-To header.</i> Ensure that the REFER request is rejected if there is no Method parameter contained in the Refer-To header.			
<b>SIP header values:</b> REFER: Refer-To To contains <b>ISC#3</b> URI (no method parameter) Referred-By contains <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
INVITE	→	→ INVITE	
180 Ringing	←	← 180 Ringing	
200 OK (INVITE)	←	← 200 OK (INVITE)	
ACK	→	→ ACK	
INVITE (sendonly)	→	→ INVITE (sendonly)	
200 OK (recvonly)	←	← 200 OK (recvonly)	
ACK	→	→ ACK	
<b>ISC#1 transfers ISC#2 to ISC#3</b>			
REFER	→	REFER	
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
<b>Apply post test routine</b>			

<b>TSS</b> Netw/TransferorAS	<b>TP</b> ECT_N01_010	<b>Reference</b> 4.5.2.4.2.3	<b>Selection expression</b> PICS 4.5.1/2 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)																																																																																																												
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<p><b>Test purpose</b>  <b>Consultative transfer.</b> The Transferor AS initiate the special REFER handling procedures directly.            Ensure that three party call control applies directly at the Transferor AS when the AS has prior <b>knowledge</b> that the <b>Transferee is not allowed</b> to receive or <b>does not support the REFER method</b>:</p> <ul style="list-style-type: none"> <li>• A 2xx OK REFER for the REFER is sent.</li> <li>• A NOTIFY request is sent to the Transferor containing a message/sipfrag body set to 'SIP/2.0 100 Trying' after the REFER request is accepted.</li> <li>• A reINVITE is sent to the Transfer Target containing the P-Asserted_identity of the Transferee and the Referred-By header with the identity of the Transferor.</li> <li>• After the 200 OK is received, a reINVITE is sent to the Transferee containing the P-Asserted_identity of the Transfer Target and the Referred-By header with the identity of the Transferor.</li> <li>• A NOTIFY request is sent to the Transferor containing a message/sipfrag body set to 'SIP/2.0 200 OK' after the referred communication is confirmed.</li> </ul>																																																																																											
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<p><b>Comments:</b></p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 20%;">ISC#1</th> <th style="text-align: center; width: 40%;">AS Transferor</th> <th style="text-align: left; width: 20%;">ISC#2</th> <th style="text-align: right; width: 20%;">ISC#3</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;"><b>Establishment of session #1</b></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><b>Session #1 on hold</b></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><b>Establishment of session #2</b></td> <td></td> <td></td> </tr> <tr> <td>REFER 1</td> <td style="text-align: center;">→ REFER</td> <td></td> <td></td> </tr> <tr> <td>2xx OK REFER</td> <td style="text-align: center;">← 2xx OK REFER</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><b>3 party call control applies</b></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">INVITE 3 →</td> <td></td> <td style="text-align: right;">→ INVITE</td> </tr> <tr> <td></td> <td style="text-align: center;">180 Ringing ←</td> <td></td> <td style="text-align: right;">← 180 Ringing</td> </tr> <tr> <td></td> <td style="text-align: center;">200 OK ←</td> <td></td> <td style="text-align: right;">← 200 OK</td> </tr> <tr> <td></td> <td style="text-align: center;">ACK →</td> <td></td> <td style="text-align: right;">→ ACK</td> </tr> <tr> <td>NOTIFY(100)</td> <td style="text-align: center;">← NOTIFY(100)</td> <td></td> <td></td> </tr> <tr> <td>200 OK NOTIFY</td> <td style="text-align: center;">→ 200 OK NOTIFY</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">INVITE 4 →</td> <td style="text-align: left;">INVITE</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">200 OK ←</td> <td style="text-align: left;">200 OK</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">ACK →</td> <td style="text-align: left;">ACK</td> <td></td> </tr> <tr> <td>NOTIFY(200)</td> <td style="text-align: center;">← NOTIFY(200)</td> <td></td> <td></td> </tr> <tr> <td>200 OK NOTIFY</td> <td style="text-align: center;">→ 200 OK NOTIFY</td> <td></td> <td></td> </tr> <tr> <td>BYE</td> <td style="text-align: center;">→ BYE</td> <td></td> <td></td> </tr> <tr> <td>200 OK (BYE)</td> <td style="text-align: center;">← 200 OK (BYE)</td> <td></td> <td></td> </tr> <tr> <td>BYE</td> <td style="text-align: center;">← BYE</td> <td></td> <td></td> </tr> <tr> <td>200 OK (BYE)</td> <td style="text-align: center;">→ 200 OK (BYE)</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><b>Apply post test routine</b></p>				ISC#1	AS Transferor	ISC#2	ISC#3		<b>Establishment of session #1</b>				<b>Session #1 on hold</b>				<b>Establishment of session #2</b>			REFER 1	→ REFER			2xx OK REFER	← 2xx OK REFER				<b>3 party call control applies</b>				INVITE 3 →		→ INVITE		180 Ringing ←		← 180 Ringing		200 OK ←		← 200 OK		ACK →		→ ACK	NOTIFY(100)	← NOTIFY(100)			200 OK NOTIFY	→ 200 OK NOTIFY				INVITE 4 →	INVITE			200 OK ←	200 OK			ACK →	ACK		NOTIFY(200)	← NOTIFY(200)			200 OK NOTIFY	→ 200 OK NOTIFY			BYE	→ BYE			200 OK (BYE)	← 200 OK (BYE)			BYE	← BYE			200 OK (BYE)	→ 200 OK (BYE)		
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<b>TSS</b> Netw/TransferorAS	<b>TP</b> ECT_N01_023	<b>Reference</b> 4.5.2.4.1.2.3, 4.7.2.9.7/ [3]	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/2 AND PICS 4.7.1/5
<b>Test purpose</b> <i>Assured transfer. The Transferor AS terminates the call attempt to the transfer target.</i> Ensure that three party call control applies the AS starts a timer set to the value received in the Expires header field contained in the Refer-To URI: After timer expiry the AS sends a CANCEL request to the Transfer Target.			
<b>SIP header values:</b> REFER 1: Refer-To contains <b>ISC#3</b> URI; method=invite?Expires=<any value> Referred-By contains <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
<b>Establishment of session #1</b>			
<b>Session #1 on hold</b>			
REFER 1	→ REFER		
2xx OK REFER	← 2xx OK REFER		
<b>3 party call control applies</b>			
	INVITE 3	→	→ INVITE
NOTIFY(100)	← NOTIFY(100)	←	
200 OK NOTIFY	→ 200 OK NOTIFY	→	
	180 Ringing	←	← 180 Ringing
<b>Timer expiry</b>			
	→ CANCEL		→ CANCEL
	← 200 OK CANCEL		← 200 OK CANCEL
	← 487 Request Terminated		← 487 Request Terminated
	→ ACK		→ ACK
<b>Apply post test routine</b>			

<b>TSS</b> Netw/TransferorAS	<b>TP</b> ECT_N01_023	<b>Reference</b> 4.5.2.4.1.2.3, 4.7.2.9.7/ [3]	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 4.7.1/5
<b>Test purpose</b> <i>Blind transfer. The Transferor AS terminates the call attempt to the transfer target.</i> Ensure that three party call control applies the AS starts a timer set to the value received in the Expires header field contained in the Refer-To URI: After timer expiry the AS sends a CANCEL request to the Transfer Target.			
<b>SIP header values:</b> REFER 1: Refer-To contains <b>ISC#3</b> URI; method=invite?Expires=<any value> Referred-By contains <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
<b>Establishment of session #1</b>			
<b>Session #1 on hold</b>			
REFER 1	→ REFER		
2xx OK REFER	← 2xx OK REFER		
BYE	→		
200 OK (BYE)	←		
<b>3 party call control applies</b>			
	INVITE 3	→	→ INVITE
NOTIFY(100)	← NOTIFY(100)	←	
200 OK NOTIFY	→ 200 OK NOTIFY	→	
	180 Ringing	←	← 180 Ringing
<b>Timer expiry</b>			
	→ CANCEL		→ CANCEL
	← 200 OK CANCEL		← 200 OK CANCEL
	← 487 Request Terminated		← 487 Request Terminated
	→ ACK		→ ACK
<b>Apply post test routine</b>			

<b>TSS</b> Netw/TransferorAS	<b>TP</b> ECT_N01_024	<b>Reference</b> 4.5.2.4.1.2.3, 4.7.2.9.7/ [3]	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/3 AND PICS 4.7.1/5
<b>Test purpose</b> <i>Consultative transfer. The Transferor AS terminates the call attempt to the transfer target.</i> Ensure that three party call control applies the AS starts a timer set to the value received in the Expires header field contained in the Refer-To URI: After timer expiry the AS sends a CANCEL request to the Transfer Target.			
<b>SIP header values:</b> REFER 1: Refer-To contains <b>ISC#3</b> URI; method=invite?Expires=<any value> Referred-By contains <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
	Establishment of session #1		
	Session #1 on hold		
	Establishment of session #2		
REFER 1	→ REFER		
2xx OK REFER	← 2xx OK REFER		
	<b>3 party call control applies</b>		
	INVITE 3 →		→ INVITE
NOTIFY(100)	← NOTIFY(100)		
200 OK NOTIFY	→ 200 OK NOTIFY		
	180 Ringing ←		← 180 Ringing
	<b>Timer expiry</b>		
	→ CANCEL		→ CANCEL
	← 200 OK CANCEL		← 200 OK CANCEL
	← 487 Request Terminated		← 487 Request Terminated
	→ ACK		→ ACK
	<b>Apply post test routine</b>		

### 5.2.3 Actions at the Transferee UE

<b>TSS</b> User/Transferee	<b>TP</b> ECT_U02_001	<b>Reference</b> 4.5.2.5	<b>Selection expression</b> PICS 4.5.1/1 AND (PICS 4.6.1/1 OR PICS 4.6.1/2) AND PICS 4.6.1/5
<b>Test purpose</b> <i>The User Equipment receives the request to establish a communication to the transfer target (Transferee Blind/assured transfer)</i> Ensure that the UE establishes a session with a 'transfer target' if a REFER request was received containing a Refer-To header and a Referred-By header. The Request Line of INVITE request sent by the UE is set to the URI received in the Refer-To header. The received Referred-By header is sent in the INVITE request. Ensure that a NOTIFY request is sent containing a message/sipfrag body set to 'SIP/2.0 100 Trying' after the REFER request is accepted. Ensure that a NOTIFY request is sent containing a message/sipfrag body set to 'SIP/2.0 200 OK' after the referred communication is confirmed.			
<b>SIP header values:</b>			
REFER: Request URI: <b>Gm#1</b> Refer-To: contains <b>Gm#3</b> URI;method=invite Referred-By: contains <b>Gm#2</b> URI			
NOTIFY(100):Event contains <b>refer</b> Subscription-State: <b>active;expires=(any value)</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>			
NOTIFY(200):Event contains <b>refer</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>			
INVITE: Request URI: <b>Gm#3</b> Referred-By contains <b>Gm#2</b> URI			

Comments: UE ( Gm#1)	Establishment of session #1	Test equipment ( Gm#2) Session #1 on hold
REFER	←	REFER
<b>CASE A</b>		
2xx OK REFER (Session #1)	→	2xx OK REFER
NOTIFY(100)	→	NOTIFY(100)
200 OK NOTIFY	←	200 OK NOTIFY
INVITE(inactive/sendonly) ( <b>Session #1</b> )	→	INVITE
200 OK INVITE	←	200 OK INVITE(inactive/recvonly)
ACK	→	ACK
INVITE ( <b>Session #2</b> )	→	INVITE
180 Ringing	←	180 Ringing
200 OK INVITE	←	200 OK INVITE
ACK	→	ACK
NOTIFY(200)	→	NOTIFY(200)
200 OK NOTIFY	←	200 OK NOTIFY
<b>CASE B</b>		
NOTIFY(100) (Session #1)	→	NOTIFY(100)
200 OK NOTIFY	←	200 OK NOTIFY
202 Accepted (Session #1)	→	202 Accepted
INVITE(inactive/sendonly) ( <b>Session #1</b> )	→	INVITE
200 OK INVITE	←	200 OK INVITE(inactive/recvonly)
ACK	→	ACK
INVITE ( <b>Session #2</b> )	→	INVITE
180 Ringing	←	180 Ringing
200 OK INVITE (Session #2)	←	200 OK INVITE
ACK	→	ACK
NOTIFY(200) (Session #1)	→	NOTIFY(200)
200 OK NOTIFY	←	200 OK NOTIFY
<b>Apply post test routine</b>		

TSS User/Transferee	TP ECT_U02_002	Reference 4.5.2.5	Selection expression PICS 4.5.1/1 AND PICS 4.6.1/3 AND PICS 4.6.1/5																																																																																										
<p><b>Test purpose</b>  <i>The User Equipment receives the request to establish a communication to the transfer target (Transferee consultative transfer)</i>            Ensure that the UE establishes a session with a 'transfer target' if a REFER request was received containing a Refer-To header and a Referred-By header. The Request Line of INVITE request sent by the UE is set to the URI received in the Refer-To header. The received Referred-By header is sent in the INVITE request. The Replaces header escaped in the received REFER request is sent in the INVITE request.            Ensure that a NOTIFY request is sent containing a message/sipfrag body set to 'SIP/2.0 100 Trying' after the REFER request is accepted.            Ensure that a NOTIFY request is sent containing a message/sipfrag body set to 'SIP/2.0 200 OK' after the referred communication is confirmed.</p>																																																																																													
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180 Ringing	←	180 Ringing																																																																																											
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ACK	→	ACK																																																																																											
NOTIFY(200) (Session #1)	→	NOTIFY(200)																																																																																											
200 OK NOTIFY	←	200 OK NOTIFY																																																																																											

<b>TSS</b> User/Transferee	<b>TP</b> ECT_U02_003	<b>Reference</b> 4.5.2.5	<b>Selection expression</b> PICS 4.5.1/1 AND NOT PICS 4.6.1/5												
<b>Test purpose</b> <i>UE has not the capability to handle the REFER request.</i> Ensure that the UE is able to send a 403 Forbidden or 501 Not implemented unsuccessful final response if the REFER handling is not implemented.															
<b>SIP header values:</b> REFER: Request URI=Gm#1, Refer-To other URI (PIXIT); method=invite Referred-By contains <b>Gm#2</b> URI															
<b>Comments:</b> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">UE ( Gm#1)</th> <th style="text-align: center;">Establishment of session #1 Session #1 on hold</th> <th style="text-align: right;">Test equipment (Gm#2)</th> </tr> </thead> <tbody> <tr> <td>REFER</td> <td style="text-align: center;">←</td> <td>REFER</td> </tr> <tr> <td>CASE A 403 Forbidden</td> <td style="text-align: center;">→</td> <td>403 Forbidden</td> </tr> <tr> <td>CASE A 501 Not implemented</td> <td style="text-align: center;">→</td> <td>501 Not implemented</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Apply post test routine</b></p>				UE ( Gm#1)	Establishment of session #1 Session #1 on hold	Test equipment (Gm#2)	REFER	←	REFER	CASE A 403 Forbidden	→	403 Forbidden	CASE A 501 Not implemented	→	501 Not implemented
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REFER	←	REFER													
CASE A 403 Forbidden	→	403 Forbidden													
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## 5.2.4 Action at the Transferee AS

TSS	TP	Reference	Selection expression																																																																
Netw/TransfereeAS	ECT_N02_001	4.5.2.7	PICS 4.5.1/2																																																																
<b>Test purpose</b> <i>Communication transfer: Assured transfer applicable at the Transferee AS.</i> Ensure that the Transferee AS can act as a proxy when receives the REFER request, the INVITE request and the BYE request for the call that is transferred as an assured transfer.																																																																			
<b>SIP header values:</b> REFER 1: Refer-To <b>ISC#3</b> URI; method=invite Referred-By contains ISC#1 URI REFER 2: Refer-To <b>ISC#3</b> URI; method=invite Referred-By contains ISC#1 URI INVITE 3: Request URI = <b>ISC#3</b> URI INVITE 4: Request URI = <b>ISC#3</b> URI NOTIFY(100):Event contains <b>refer</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b> NOTIFY(200):Event contains <b>refer</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>																																																																			
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TSS	TP	Reference	Selection expression																																																																				
Netw/TransfereeAS	ECT_N02_002	4.5.2.7	PICS 4.5.1/2																																																																				
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TSS Netw/TransfereeAS	TP ECT_N02_004	Reference 4.5.2.7.3	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/7																																																																																				
<p><b>Test purpose</b>  <i>The Referred-By header in the received INVITE does not contain the valid identity of the served user. Value is replaced.</i>            If a Referred-By header is available in the INVITE request sent to the Transfer Target, the AS verifies the provided Referred-By header contains the value stored in the received REFER request.            If no match is found, the value of the Referred-By header is replaced by the value of the Referred-By header received in the REFER request.</p>																																																																																							
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<b>TSS</b> Netw/TransfereeAS	<b>TP</b> ECT_N02_005	<b>Reference</b> 4.5.2.7.3	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/6																																																
<p><b>Test purpose</b>  <i>The Referred-By header in the received INVITE does not contain the valid identity of the served user. The request is rejected.</i>          If a Referred-By header is available in the INVITE request sent to the Transfer Target, the AS verifies if the provided Referred-By header contains the value stored in the received REFER request.          If no match is found, the INVITE request is rejected.</p>																																																			
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TSS	TP	Reference	Selection expression
Netw/TransfereeAS	ECT_N02_006	4.5.2.7.3	PICS 4.5.1/2 AND PICS 4.7.1/8
<b>Test purpose</b>			
The received INVITE does not contain a Referred-By header. If no <b>Referred-By</b> header is available in the INVITE request sent to the Transfer Target, the AS inserts a Referred-By header and the value is equal to the value stored in the received REFER request.			
<b>SIP header values:</b>			
REFER 2: Refer-To URI; method=invite ... Referred-By <b>ISC#1</b>			
INVITE 3: (no Referred-By header)			
INVITE 4: Referred-By <b>ISC#1</b>			
<b>Comments:</b>			
<b>ISC#2</b>	<b>AS Transferee</b>	<b>ISC#3</b>	<b>ISC#1</b>
	Establishment of session #1		Session #1 on hold
	Establishment of session #2		Session #1 on hold
		ISC#1 transfers ISC#2 to ISC#3	
		REFER ←	← REFER 1
REFER	← REFER 2		
2xx OK REFER	→ 2xx OK REFER		
	2xx OK REFER →		→ 2xx OK REFER
NOTIFY(100)	→		→ NOTIFY(100)
200 OK NOTIFY	←		← 200 OK NOTIFY
INVITE 3	→ INVITE		
		INVITE 4 → INVITE	
		180 Ringing ← 180 Ringing	
180 Ringing	← 180 Ringing		
		← 200 OK	
	200 OK ← 200 OK		
	ACK → ACK		
		ACK → ACK	
NOTIFY(200)	→		→ NOTIFY(200)
200 OK NOTIFY	←		← 200 OK NOTIFY
BYE	←		← BYE
200 OK (BYE)	→		→ 200 OK (BYE)
<b>Apply post test routine</b>			

<b>TSS</b> Netw/TransfereeAS	<b>TP</b> ECT_N02_007	<b>Reference</b> 4.5.2.4.1.2.3, 4.7.2.9.7/ [3]	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/2 AND PICS 4.7.1/4																																																																																				
<p><b>Test purpose</b>  <b>Assured transfer.</b> The Transferee AS receives a 403 Forbidden indicating the Transferee does not support the REFER method.  Ensure that three party call control applies at the Transferee AS when a 403 Forbidden is received upon a REFER was sent to the Transferee:</p> <ul style="list-style-type: none"> <li>• A 202 Accepted for the REFER is sent.</li> <li>• A NOTIFY containing a message/sipfrag body set to 'SIP/2.0 100 Trying' if the REFER request is accepted.</li> <li>• An INVITE is sent to the Transfer Target containing the P-Asserted_identity of the Transferee and the Referred-By header with the identity of the Transferor.</li> <li>• After the 200 OK is received, a reINVITE is sent to the Transferee containing the P-Asserted_identity of the Transfer Target and the Referred-By header with the identity of the Transferor.</li> <li>• A NOTIFY containing a message/sipfrag body set to 'SIP/2.0 200 OK' if the referred communication is established.</li> </ul>																																																																																							
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TSS Netw/TransfereeAS	TP ECT_N02_008	Reference 4.5.2.4.1.2.3, 4.7.2.9.7/ [3]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 4.7.1/4																																																																																				
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<p><b>Test purpose</b>  <b>Consultative transfer.</b> <i>The Transferee AS initiate the special REFER handling procedures directly.</i>            Ensure that three party call control applies directly at the Transferee AS when the AS has prior <b>knowledge</b> that <b>the Transferee is not allowed</b> to receive or <b>does not support the REFER method</b>:</p> <ul style="list-style-type: none"> <li>• A 202 Accepted for the REFER is sent.</li> <li>• A NOTIFY request is sent to the Transferor containing a message/sipfrag body set to 'SIP/2.0 100 Trying' after the REFER request is accepted.</li> <li>• A reINVITE is sent to the Transfer Target containing the P-Asserted_identity of the Transferee and the Referred-By header with the identity of the Transferor.</li> <li>• After the 200 OK is received, a reINVITE is sent to the Transferee containing the P-Asserted_identity of the Transfer Target and the Referred-By header with the identity of the Transferor.</li> <li>• A NOTIFY request is sent to the Transferor containing a message/sipfrag body set to 'SIP/2.0 200 OK' after the referred communication is confirmed.</li> </ul>																																																																																																																	
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## 5.2.5 Actions at the transfer target's UE

TSS	TP	Reference	Selection expression																					
User/TransferTarget	ECT_U03_001	4.5.2.17	PICS 4.5.1/1 AND																					
<b>Test purpose</b> <i>The User Equipment receives the request to terminate a communication to the transferor.</i> Ensure that a User Equipment in a confirmed session receives an INVITE request to establish a new session that and a Replaces header is present (consultative transfer): <ul style="list-style-type: none"> <li>• The User Equipment accepts the request</li> <li>• The User Equipment terminates the session indicated in the Replaces header</li> </ul>																								
<b>SIP header values:</b> INVITE: Request URI: <b>Gm#1</b> Referred-By contains any URI Replaces: <CallID Session #1>;to-tag=<Session #1;from-tag=<Session #1>																								
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TSS	TP	Reference	Selection expression																					
User/TransferTarget	ECT_U03_002	4.5.2.17	PICS 4.5.1/1 AND																					
<b>Test purpose</b> <i>The User Equipment receives a Referred-By header.</i> <ul style="list-style-type: none"> <li>• Ensure that a User Equipment receives a Referred-By header in an INVITE request accepts the request.</li> </ul>																								
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## 5.2.6 Interaction with other services

### 5.2.6.1 Originating identification restriction (OIR)

TSS	TP	Reference	Selection expression																																																																																												
Interaction/OIR	ECT_N03_001	4.6.5	PICS 4.5.1/2 AND PICS 7.7.2/1																																																																																												
<b>Test purpose</b> <i>Referred-By header Privacy regarding the requested privacy for the P-Asserted-Identity.</i> Ensure that a Privacy header is present and the value 'user' is included in addition if the Privacy header was received with the value 'id'.																																																																																															
<b>SIP header values:</b> REFER 1: Refer-To contains <b>ISC#3</b> URI; method=invite Referred-By contains <b>ISC#1</b> URI P-Asserted-Identity <b>ISC#1</b> URI Privacy: id REFER 2: Refer-To contains <b>ISC#3</b> URI; method=invite Referred-By contains <b>ISC#1</b> URI P-Asserted-Identity <b>ISC#1</b> URI Privacy: id, user																																																																																															
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<p><b>Test purpose</b>  <i>Privacy header in the INVITE of the Transferee is set according previous received privacy indication.</i>            Ensure that the INVITE request sent to the transfer target has the same privacy requirements as previous received in initial call between the transferee and the transferor.</p> <ul style="list-style-type: none"> <li>Transferee sends a Privacy header value 'id' in the 200 OK INVITE of the initial call. The SUT inserts a Privacy header set to 'id' if the INVITE request sent to the Transfer target does not contain a Privacy header.</li> </ul>																																																																																																																																			
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### 5.2.6.2 Anonymous Communication Rejection and Communication Barring (ACR/CB)

<b>TSS</b> Interaction/ACR-CB	<b>TP</b> ECT_N04_001	<b>Reference</b> 4.6.9	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 7.7.2/2
<b>Test purpose</b> <i>transfer requests with a Transfer Target that is barred by the served users Outgoing Communication Barring (OCB) rules.</i> Ensure that the As does not accept a transfer requests with a transfer Target that is barred by the Transferor's Outgoing Communication Barring (OCB) rules.			
<b>Precondition:</b> The Transfer Target is barred by the Transferor's Outgoing Communication Barring rules.			
<b>SIP header values:</b> REFER 1: Refer-To contains <b>ISC#3</b> URI; method=invite Referred-By contains <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#1</b>	<b>AS Transferor</b>	<b>ISC#2</b>	<b>ISC#3</b>
	<b>Establishment of session #1</b>		
INVITE	←	←	INVITE 1
180 Ringing	→	→	180 Ringing
200 OK (INVITE)	→	→	200 OK (INVITE)
ACK	←	←	ACK
INVITE 2 (sendonly)	→	→	INVITE (sendonly)
200 OK (recvonly)	←	←	200 OK (recvonly)
ACK	→	→	ACK
	<b>ISC#1 transfers ISC#2 to ISC#3</b>		
REFER 1	→ REFER		
403 Forbidden	← 403 Forbidden		
<b>Apply post test routine</b>			

## 5.2.6.3 CONFERENCE Calling (CONF)

<b>TSS</b> Interaction/CONF	<b>TP</b> ECT_N05_001	<b>Reference</b> 4.6.6	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 7.7.2/3																																				
<p><b>Test purpose</b> ECT does not apply if the Refer-To header of the REFER request dialogue contains the URI targeted a conference invited by REFER. Ensure that ECT does not apply if the "Isfocue" parameter was received in the Contact header of a 1xx or 200 OK response in a dialogue to join a conference after received a REFER request to refer to the conference. The REFER request is rejected with a 4xx or 5xx or 6xx unsuccessful final response.</p>																																							
<p><b>SIP header values:</b> INVITE: Request URI=conference factory URIllet's 200 OK (INVITE) 1:     Contact: conference URI; isfocus REFER 1: Request URI=ISC#2     Refer-To conference URI;method=invite     Referred-By <b>ISC#1</b> URI</p>																																							
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<b>TSS</b> Interaction/CONF	<b>TP</b> ECT_N05_002	<b>Reference</b> 4.6.6	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 7.7.2/3																												
<p><b>Test purpose</b> ECT does not apply if the Refer-To header of the REFER request dialogue contains the URI targeted a conference invited by INVITE. Ensure that ECT does not apply if the "Isfocue" parameter was received in the Contact header of a 1xx or 200 OK response in a dialogue to join a conference after received a INVITE request. The REFER request is rejected with a 4xx or 5xx or 6xx unsuccessful final response.</p>																															
<p><b>SIP header values:</b> INVITE: <b>ISC#1</b> URI     Contact: conference URI; isfocus</p>																															
<p><b>Comments:</b></p> <table border="0"> <thead> <tr> <th style="text-align: left;"><b>ISC#ISC#1</b></th> <th style="text-align: center;"><b>AS Transferor</b></th> <th style="text-align: center;"><b>A conference is already established</b></th> <th style="text-align: center;"><b>AS CONF</b></th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">← INVITE</td> </tr> <tr> <td>180 Ringing</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→ 180 Ringing</td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→ 200 OK (INVITE)</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">← ACK</td> </tr> <tr> <td>REFER</td> <td style="text-align: center;">→</td> <td>REFER</td> <td></td> </tr> <tr> <td>4xx or 5xx or 6xx Response</td> <td style="text-align: center;">←</td> <td>4xx or 5xx or 6xx Response</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><b>Apply post test routine</b></p>				<b>ISC#ISC#1</b>	<b>AS Transferor</b>	<b>A conference is already established</b>	<b>AS CONF</b>	INVITE	←		← INVITE	180 Ringing	→		→ 180 Ringing	200 OK (INVITE)	→		→ 200 OK (INVITE)	ACK	←		← ACK	REFER	→	REFER		4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
<b>ISC#ISC#1</b>	<b>AS Transferor</b>	<b>A conference is already established</b>	<b>AS CONF</b>																												
INVITE	←		← INVITE																												
180 Ringing	→		→ 180 Ringing																												
200 OK (INVITE)	→		→ 200 OK (INVITE)																												
ACK	←		← ACK																												
REFER	→	REFER																													
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response																													

<b>TSS</b> Interaction/CONF	<b>TP</b> ECT_N05_003	<b>Reference</b> 4.6.6	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 7.7.2/3
<b>Test purpose</b> <i>ECT does not apply if the a conference controller invokes ECT.</i> Ensure that ECT does not apply if the conference controller invokes ECT. The REFER request is rejected with a 4xx or 5xx or 6xx unsuccessful final response.			
<b>SIP header values:</b> INVITE 1: conference factory URI			
<b>Comments:</b>			
<b>ISC#ISC#1</b>	<b>AS Transferor</b>		<b>AS CONF</b>
INVITE 1	→		→ INVITE
200 OK (INVITE)	←		← 200 OK (INVITE)
<b>Invite another user to the conference</b>			
REFER	→	REFER	
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
<b>Apply post test routine</b>			

#### 5.2.6.4 Explicit Communication Transfer (ECT)

<b>TSS</b> Interaction/ECT	<b>TP</b> ECT_N06_001	<b>Reference</b> 4.6.10.2, 4.6.10.3	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/1
<b>Test purpose</b> <i>Interaction with ECT: Blind transfer.</i> A session between ISC#1 and ISC#2 exists and was transferred before. Ensure that if the INVITE dialog on which the REFER is received is a previously transferred communication indicated by the presence of a Referred-By header in the INVITE request the: <ul style="list-style-type: none"> <li>REFER is forwarded and the value of the Refer-To header is replaced by the ECT session Identifier.</li> <li>The Request URI of the INVITE request received to forward to the Transfer Target is replaced with the value of the Transfer Target.</li> </ul>			
<b>SIP header values:</b> REFER 1: Refer-To <b>ISC#3</b> URI; method=invite Referred-By <b>ISC#1</b> URI REFER 2: Refer-To <b>ECT Session Identifier</b> URI; method=invite Referred-By <b>ISC#1</b> URI INVITE 2: Request URI = <b>ECT Session Identifier</b> URI Referred-By <b>ISC#1</b> URI INVITE 3: Request URI = <b>ISC#3</b> URI Referred-By <b>ISC#1</b> URI			
<b>Comments:</b>			
<b>ISC#ISC#1</b>	<b>AS Transferor</b>	<b>ISC#ISC#2</b>	<b>ISC#ISC#3</b>
<b>A transferred communication already exists Session #1 on hold</b>			
REFER 1	→	REFER	
		REFER 2	→
		2xx OK REFER	←
2xx OK REFER	←	2xx OK REFER	
BYE	→	BYE	
200 OK (BYE)	←	200 OK (BYE)	
		INVITE	←
		INVITE 3	→
		180 Ringing	←
		180 Ringing	→
		200 OK	←
		200 OK	→
		200 OK	→
		ACK	→
		ACK	→
<b>Apply post test routine</b>			

<b>TSS</b> Interaction/ECT	<b>TP</b> ECT_N06_002	<b>Reference</b> 4.6.10.2, 4.6.10.3	<b>Selection expression</b> PICS 4.5.1/2 AND PICS 4.7.1/2																																																
<b>Test purpose</b> <i>Interaction with ECT: Assured transfer.</i> A session between ISC#1 and ISC#2 exists and was transferred before. Ensure that if the INVITE dialog on which the REFER is received is a previously transferred communication indicated by the presence of a Referred-By header in the INVITE request the: <ul style="list-style-type: none"> <li>REFER is forwarded and the value of the Refer-To header is replaced by the ECT session Identifier.</li> <li>The Request URI of the INVITE request received to forward to the Transfer Target is replaced with the value of the Transfer Target.</li> </ul>																																																			
<b>SIP header values:</b> REFER 1: Refer-To <b>ISC#3</b> URI; method=invite Referred-By <b>ISC#1</b> URI REFER 2: Refer-To <b>ECT Session Identifier</b> URI; method=invite Referred-By ISC#ISC#1 URI INVITE 2: Request URI = <b>ECT Session Identifier</b> URI Referred-By <b>ISC#1</b> URI INVITE 3: Request URI = <b>ISC#3</b> URI Referred-By <b>ISC#1</b> URI																																																			
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	200 OK →	200 OK																																																	
			ACK → ACK																																																



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## Annex A (informative): Bibliography

- ETSI TS 123 228: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS); Stage 2 (3GPP TS 23.228 version 12.10.0 Release 12)".

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## History

<b>Document history</b>		
V5.1.1	October 2012	Publication
V6.1.1	June 2018	Publication