



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

Reference

DTS/INT-00071-2

Keywords

ECT, IMS, testing, 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 Explicit Communication Transfer (ECT) 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 (TSS&TP) for the protocol specification as defined in ETSI [1] in compliance with the relevant requirements.

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 <http://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.

2.1 Normative references

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

- [1] ETSI TS 124 629: "Digital cellular telecommunications system (Phase 2+); 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 10)".
- [2] ETSI TS 101 594-1: "Technical Committee for IMS Network Testing (INT); Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (3GPP Release 10); Part 1: Protocol Implementation Conformance Statement (PICS)".
- [3] ETSI TS 124 628: "Digital cellular telecommunications system (Phase 2+); 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 10)".

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:

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

4 Test Suite Structure (TSS) and configuration

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

Figure 4.1: Test suite structure

4.1 Configuration

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

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

Testing of the Application Server: This entity is responsible to perform the service. Hence the ISC interface is the appropriate access point. Figure 4.1.1 points to this.

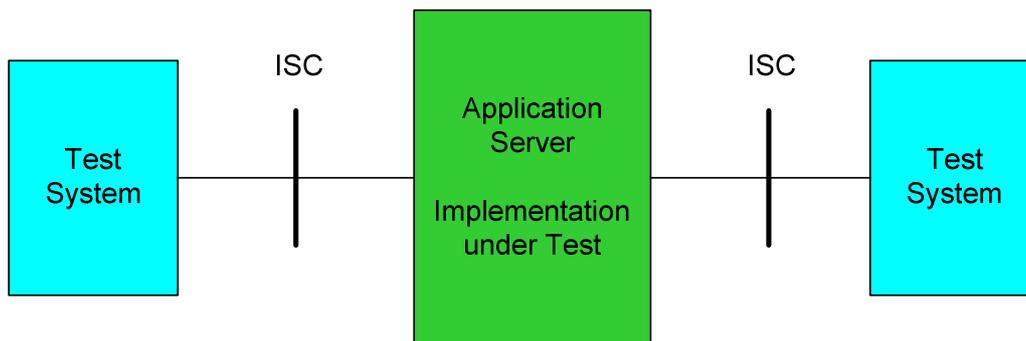


Figure 4.1.1: Applicable interface to test AS functionalities

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 4.1.2). 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.

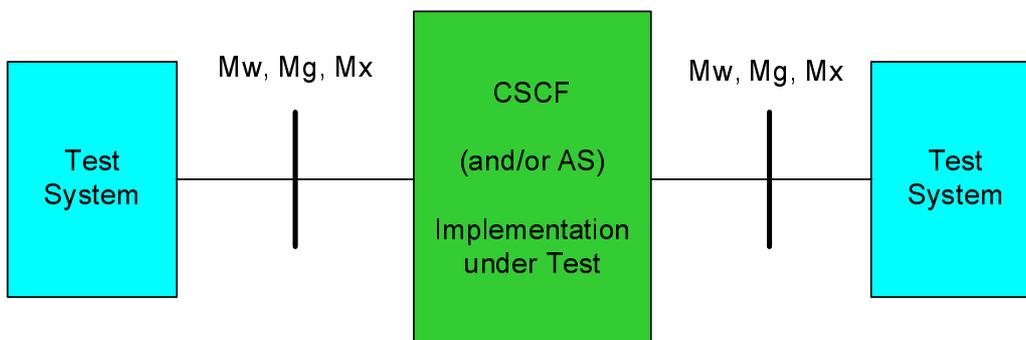


Figure 4.1.2: Applicable interfaces to test using the (generic) NNI interface

Figure 4.1.2 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.

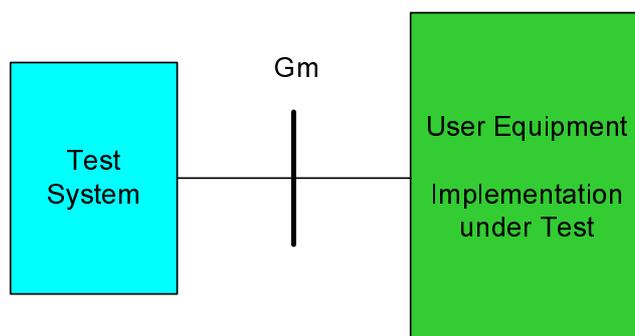


Figure 4.1.3: Applicable configuration to test the User Equipment

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 TP naming convention

Tps are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 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 [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 [2].

5.2 Signalling requirements

5.2.1 Actions at the Transferor UE

TSS User/Transferor	TP ECT_U01_001	Reference 4.5.2.1	Selection expression PICS 4.5.1/1 AND PICS 4.6.1/1																																																																																																				
Test purpose <i>The UE transfers a communication with a Transferee to the Transfer Target (Transferor, blind transfer).</i> Ensure that the UE is able to transfer a communication with the Transferee, optionally put on hold before, to the Transfer Target using the blind transfer method. The session with user Transferee is terminated before information about the progress of the transfer is received.																																																																																																							
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<p>Test purpose <i>The UE transfers a communication with a Transferee to the Transfer Target (Transferor, consultative transfer).</i> Ensure that the UE is able to transfer a communication with the Transferee, optionally put on hold before, to the Transfer Target, having a session, optionally put on hold before, using the consultative transfer method. The REFER request contains a replaces header escaped in the Refer-To header to request the termination of the session between Transferor and Transfer Target (session #2).</p>																																													
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5.2.2 Actions at the Transferor AS

TSS Netw/TransferorAS	TP ECT_N01_001	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 Netw/TransferorAS	TP ECT_N01_005	Reference 4.5.2.4	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/3 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)
200 OK NOTIFY	→	→	200 OK NOTIFY
BYE	←		← BYE
200 OK (BYE)	→		→ 200 OK (BYE)
BYE	→		→ BYE
200 OK (BYE)	←		← 200 OK (BYE)
Communication ISC#2 with ISC#3			
Apply post test routine			

TSS Netw/TransferorAS	TP ECT_N01_006	Reference 4.5.2.4	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/3 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)																																																																																																																																
Test purpose <i>Communication transfer: Consultative transfer. 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.																																																																																																																																			
SIP header values: REFER 1: Refer-To contains ISC#3 URI ; method=invite?Replaces= call-id1%3Bto-tag%3DS1%3Bfrom-tag%3DS1&Require=replaces Referred-By contains ISC#1 URI REFER 2: Refer-To contains ECT Session Identifier URI ; method=invite Referred-By contains ISC#1 URI INVITE 3: Request URI = ECT Session Identifier URI Referred-By contains ISC#1 URI INVITE 4: Request URI = ISC#3 URI Replaces= call-id1;to-tag=S1; from-tag=S1 Require: replaces Referred-By contains ISC#1 URI NOTIFY(100):Event contains refer Subscription-State: active;expires=(any value) message/sipfrag contains SIP/2.0 100 Trying NOTIFY(200):Event contains refer message/sipfrag contains SIP/2.0 200 OK Subscription-State: terminated;reason=noresource																																																																																																																																			
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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)
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)	
Communication ISC#2 with ISC#3			
Apply post test routine			

TSS	TP	Reference	Selection expression
Netw/TransferorAS	ECT_N01_007	4.5.2.4.1.2.2	PICS 4.5.1/2
Test purpose			
<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.			
SIP header values:			
REFER: Refer-To contains ISC#3 URI; method=BYE Referred-By contains ISC#1 URI			
Comments:			
ISC#1		AS Transferor	ISC#2
			ISC#3
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
ISC#1 transfers ISC#2 to ISC#3			
REFER	→	REFER	
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
Apply post test routine			

TSS	TP	Reference	Selection expression
	ECT_N01_008	4.5.2.4.1.2.2	PICS 4.5.1/2
Test purpose			
<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.			
SIP header values:			
REFER: Request URI contained the other URI (PIXIT) Refer-To contains the URI of ISC#3 , method=invite Referred-By contains SIP or tel URI of ISC#1			
Comments:			
ISC#1	AS Transferor	ISC#2	ISC#3
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	
Apply post test routine			

TSS	TP	Reference	Selection expression
Netw/TransferorAS	ECT_N01_009	4.5.2.4.1.2.2	PICS 4.5.1/2
Test purpose			
<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.			
SIP header values:			
REFER: Refer-To To contains ISC#3 URI (no method parameter) Referred-By contains ISC#1 URI			
Comments:			
ISC#1	AS Transferor	ISC#2	ISC#3
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	
ISC#1 transfers ISC#2 to ISC#3			
REFER	→	REFER	
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
Apply post test routine			

TSS Netw/TransferorAS	TP ECT_N01_010	Reference 4.5.2.4.2.3	Selection expression PICS 4.5.1/2 AND NOT (PICS 4.7.1/4 OR PICS 4.7.1/5)																																																																																																								
Test purpose <i>In the REFER request, the Referred-By header does not contain the valid identity of the served user.</i> A Referred-By header is available in the REFER request, the AS verifies if the provided Referred-By header contains a valid identity of the served user. If not it will replace the Referred-By header with a valid value matching the REFER request's P-Asserted-Identity.																																																																																																											
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TSS Netw/TransferorAS	TP ECT_N01_021	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 4.7.1/5																																																																												
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5.2.3 Actions at the Transferee UE

TSS User/Transferee	TP ECT_U02_001	Reference 4.5.2.5	Selection expression PICS 4.5.1/1 AND (PICS 4.6.1/1 OR PICS 4.6.1/2) AND PICS 4.6.1/5
<p>Test purpose <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.</p>			
<p>SIP header values: REFER: Request URI: Gm#1 Refer-To: contains Gm#3 URI;method=invite Referred-By: contains Gm#2 URI NOTIFY(100):Event contains refer Subscription-State: active;expires=(any value) message/sipfrag contains SIP/2.0 100 Trying NOTIFY(200):Event contains refer message/sipfrag contains SIP/2.0 200 OK INVITE: Request URI: Gm#3 Referred-By contains Gm#2 URI</p>			

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

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>Test purpose <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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TSS User/Transferee	TP ECT_U02_003	Reference 4.5.2.5 [1]	Selection expression PICS 4.5.1/1 AND NOT PICS 4.6.1/5												
Test purpose <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.															
SIP header values: REFER: Request URI=Gm#1, Refer-To other URI (PIXIT); method=invite Referred-By contains Gm#2 URI															
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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																																																																																
Test purpose <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.																																																																																			
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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>Test purpose <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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TSS Netw/TransfereeAS	TP ECT_N02_005	Reference 4.5.2.7.3	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/6																																																
<p>Test purpose <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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ACK	→ ACK																																																		

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
Test purpose			
The received INVITE does not contain a Referred-By header. If no Referred-By 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.			
SIP header values:			
REFER 2: Refer-To URI; method=invite ... Referred-By ISC#1			
INVITE 3: (no Referred-By header)			
INVITE 4: Referred-By ISC#1			
Comments:			
ISC#2	AS Transferee	ISC#3	ISC#1
	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		
202 Accepted	→ 202 Accepted		
	202 Accepted →		→ 202 Accepted
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)
Apply post test routine			

TSS Netw/TransfereeAS	TP ECT_N02_007	Reference 4.5.2.4.1.2.3, 4.7.2.9.7/ [3]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/2 AND PICS 4.7.1/4																																																																																																																																																			
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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																								
Test purpose <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"> • The User Equipment accepts the request • The User Equipment terminates the session indicated in the Replaces header 																											
SIP header values: INVITE: Request URI: Gm#1 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																								
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200 OK BYE	←	200 OK BYE																									
Apply post test routine																											

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																																																																																												
Test purpose <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'.																																																																																															
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		ACK	→ ACK																																																																																																																																
NOTIFY(200)	←	← NOTIFY(200)																																																																																																																																	
200 OK NOTIFY	→	→ 200 OK NOTIFY																																																																																																																																	
BYE	→	→ BYE																																																																																																																																	
200 OK (BYE)	←	← 200 OK (BYE)																																																																																																																																	

5.2.6.2 Anonymous Communication Rejection and Communication Barring (ACR/CB)

TSS Interaction/ACR-CB	TP ECT_N04_001	Reference 4.6.9	Selection expression PICS 4.5.1/2 AND PICS 7.7.2/2
Test purpose <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.			
Precondition: The Transfer Target is barred by the Transferor's Outgoing Communication Barring rules.			
SIP header values: REFER 1: Refer-To contains ISC#3 URI; method=invite Referred-By contains ISC#1 URI			
Comments:			
ISC#1	AS Transferor	ISC#2	ISC#3
	Establishment of session #1		
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
	ISC#1 transfers ISC#2 to ISC#3		
REFER 1	→ REFER		
403 Forbidden	← 403 Forbidden		
Apply post test routine			

5.2.6.3 CONFerence Calling (CONF)

TSS Interaction/CONF	TP ECT_N05_001	Reference 4.6.6	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 7.7.2/3																											
<p>Test purpose 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>SIP header values: INVITE: Request URI=conference factory URI 200 OK (INVITE) 1: Contact: conference URI; isfocus REFER 1: Request URI=ISC#2 Refer-To conference URI;method=invite Referred-By ISC#1 URI</p>																														
<p>Comments:</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">ISC#ISC#1</th> <th style="text-align: center;">AS Transferor A conference is already established</th> <th style="text-align: right;">AS CONF</th> </tr> </thead> <tbody> <tr> <td>REFER</td> <td style="text-align: center;">←</td> <td style="text-align: right;">← REFER</td> </tr> <tr> <td>202 Accepted</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→ 202 Accepted</td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→ INVITE</td> </tr> <tr> <td>180 Ringing</td> <td style="text-align: center;">←</td> <td style="text-align: right;">← 180 Ringing</td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">←</td> <td style="text-align: right;">← 200 OK (INVITE)</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→ ACK</td> </tr> <tr> <td>REFER</td> <td style="text-align: center;">→</td> <td style="text-align: right;">REFER</td> </tr> <tr> <td>4xx or 5xx or 6xx Response</td> <td style="text-align: center;">←</td> <td style="text-align: right;">4xx or 5xx or 6xx Response</td> </tr> </tbody> </table> <p style="text-align: center;">Apply post test routine</p>				ISC#ISC#1	AS Transferor A conference is already established	AS CONF	REFER	←	← REFER	202 Accepted	→	→ 202 Accepted	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
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200 OK (INVITE)	←	← 200 OK (INVITE)																												
ACK	→	→ ACK																												
REFER	→	REFER																												
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response																												

TSS Interaction/CONF	TP ECT_N05_002	Reference 4.6.6	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 7.7.2/3																					
<p>Test purpose 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>																								
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ACK	←	← ACK																						
REFER	→	REFER																						
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response																						

TSS Interaction/CONF	TP ECT_N05_003	Reference 4.6.6	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 7.7.2/3
Test purpose <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.			
SIP header values: INVITE 1: conference factory URI			
Comments:			
ISC#ISC#1	AS Transferor		AS CONF
INVITE 1	→		→ INVITE
200 OK (INVITE)	←		← 200 OK (INVITE)
Invite an other user to the conference			
REFER	→	REFER	
4xx or 5xx or 6xx Response	←	4xx or 5xx or 6xx Response	
Apply post test routine			

5.2.6.4 Explicit Communication Transfer (ECT)

TSS Interaction/ECT	TP ECT_N06_001	Reference 4.6.10.2, 4.6.10.3	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/1
Test purpose <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"> REFER is forwarded and the value of the Refer-To header is replaced by the ECT session Identifier. The Request URI of the INVITE request received to forward to the Transfer Target is replaced with the value of the Transfer Target. 			
SIP header values: REFER 1: Refer-To ISC#3 URI; method=invite Referred-By ISC#1 URI REFER 2: Refer-To ECT Session Identifier URI; method=invite Referred-By ISC#1 URI INVITE 2: Request URI = ECT Session Identifier URI Referred-By ISC#1 URI INVITE 3: Request URI = ISC#3 URI Referred-By ISC#1 URI			
Comments:			
ISC#ISC#1	AS Transferor	ISC#ISC#2	ISC#ISC#3
A transferred communication already exists Session #1 on hold			
REFER 1	→	REFER	
		REFER 2	→
		202 Accepted	←
202 Accepted	←	202 Accepted	
BYE	→		→
200 OK (BYE)	←		←
		INVITE	←
		INVITE 3	→
		180 Ringing	←
		180 Ringing	→
		200 OK	←
		200 OK	→
			ACK
			→
			ACK
Apply post test routine			

TSS Interaction/ECT	TP ECT_N06_002	Reference 4.6.10.2, 4.6.10.3	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/2																																																				
Test purpose <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"> REFER is forwarded and the value of the Refer-To header is replaced by the ECT session Identifier. The Request URI of the INVITE request received to forward to the Transfer Target is replaced with the value of the Transfer Target. 																																																							
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Annex A (informative): Bibliography

ETSI TS 123 228: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS); Stage 2 (3GPP TS 23.228 Release 10)".

History

Document history		
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