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Technical Specification

**Telecommunications and Internet converged Services and
Protocols for Advanced Networking (TISPAN);
PSTN/ISDN simulation services;
Conference (CONF);
Part 2: Test Suite Structure and Test Purposes (TSS&TP)**



Reference

DTS/TISPAN-06026-2-NGN-R2

Keywords

IMS, TSS&TP, CONF, testing**ETSI**

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 2 of a multi-part deliverable covering the PSTN/ISDN simulation services; Conference (CONF) as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS)";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";**
- Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user".

1 Scope

The present document specifies the Protocol implementation conformance statement (PICS) for the Conference (CONF) service based on stage one and two of the ISDN CONF supplementary service. Within the Next Generation Network (NGN) the stage 3 is specified using the IP-Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP), TS 183 005 [1].

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

2 References

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

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

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2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- [1] ETSI TS 183 005: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Conference (CONF); Protocol specification".
- [2] ETSI TS 186 010-1: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Conference (CONF); Part 1: Protocol implementation Conformance Statement (PICS)".
- [3] ETSI TS 124 147: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3 (3GPP TS 24.147 version 8.2.0 Release 8)".

2.2 Informative references

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

Not applicable.

3 Definitions and abbreviations

3.1 Definitions

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

3.2 Abbreviations

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

4 Test Suite Structure (TSS) and configuration

Table 1: Test suite structure

ConferenceFocus		CONF_N01_xxx
		CONF_N02_xxx
		CONF_N03_xxx
		CONF_N04_xxx
		CONF_N05_xxx
		CONF_N06_xxx
		CONF_N07_xxx
UserEquipment		CONF_U01_xxx
Interaction	TIR	CONF_N08_xxx
	OIR	CONF_N09_xxx
	ACR	CONF_N10_xxx

4.1 Configuration

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

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

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

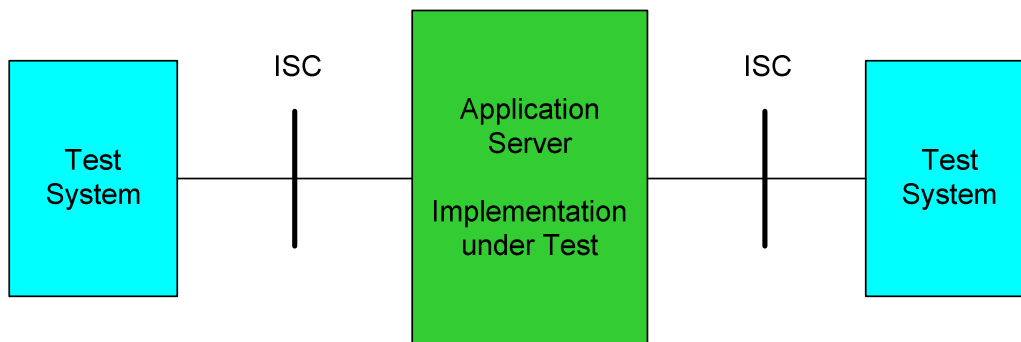


Figure 1: Applicable interface to test AS functionalities

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

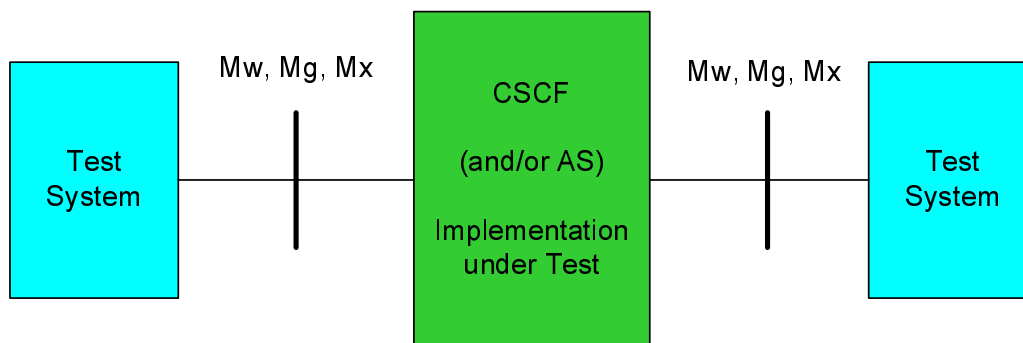


Figure 2: Applicable interfaces to test using the (generic) NNI interface

Figure 2 illustrates the usage of any NNI interface.

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 2).

Table 2: TP identifier naming convention scheme

Identifier: <ss>_<iut><group>_<nnn>			
<ss>	=	supplementary service:	e.g. "CONF"
<iut>	=	type of IUT:	U User N Network yyy service
<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 TS 183 005 [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 TS 186 010-1 [2].

5.2 Signalling requirements

5.2.1 Conference Focus

5.2.1.1 Conference creation

TSS	TP	Reference	Selection expression																								
ConferenceFocus	CONF_N01_001	5.3.2.3/ [3]																									
<p>Test purpose <i>Conference creation with a conference factory URI. Conference event package subscribed.</i></p> <p>Ensure that a conference can be created by a UE using the conference factory URI. The "isfocus" feature parameter indicated in Contact header is received in the 200 OK (INVITE). The conference participant shall store the content of the received Contact header as the conference URI. In addition the conference participant subscribes to the conference event package.</p> <p>SIP header values: INVITE: Request URI contained the conference factory URI 200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field SUBSCRIBE: Request URI contained the conference URI Event header contains "conference" NOTIFY: Event contains conference; Subscription-State contains active; expires=xxxx</p> <p>Comments:</p> <table> <thead> <tr> <th>ISC#1</th> <th></th> <th>Focus</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td>→</td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td>←</td> <td></td> </tr> <tr> <td>ACK</td> <td>→</td> <td></td> </tr> <tr> <td>SUBSCRIBE</td> <td>→</td> <td></td> </tr> <tr> <td>200 OK (SUBSCRIBE)</td> <td>←</td> <td></td> </tr> <tr> <td>NOTIFY</td> <td>←</td> <td></td> </tr> <tr> <td>200 OK NOTIFY</td> <td>→</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">Apply post test routine</p>				ISC#1		Focus	INVITE	→		200 OK (INVITE)	←		ACK	→		SUBSCRIBE	→		200 OK (SUBSCRIBE)	←		NOTIFY	←		200 OK NOTIFY	→	
ISC#1		Focus																									
INVITE	→																										
200 OK (INVITE)	←																										
ACK	→																										
SUBSCRIBE	→																										
200 OK (SUBSCRIBE)	←																										
NOTIFY	←																										
200 OK NOTIFY	→																										

TSS	TP	Reference	Selection expression												
ConferenceFocus	CONF_N01_002	5.3.2.3/[3]													
<p>Test purpose <i>Conference creation with a conference factory URI. Conference event package not subscribed.</i></p> <p>Ensure that a conference can be created by a UE using the conference factory URI. The "isfocus" feature parameter indicated in Contact header is received in the 200 OK (INVITE). The conference participant shall store the content of the received Contact header as the conference URI. The conference participant does not subscribe to the conference event package.</p> <p>SIP header values: INVITE: Request URI contained the conference factory URI 200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field</p> <p>Comments:</p> <table> <thead> <tr> <th>ISC#1</th> <th></th> <th>Focus</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td>→</td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td>←</td> <td></td> </tr> <tr> <td>ACK</td> <td>→</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">Apply post test routine</p>				ISC#1		Focus	INVITE	→		200 OK (INVITE)	←		ACK	→	
ISC#1		Focus													
INVITE	→														
200 OK (INVITE)	←														
ACK	→														

TSS	TP	Reference	Selection expression																								
ConferenceFocus	CONF_N01_003	5.3.2.3/[3]	PICS 1/5																								
<p>Test purpose <i>Conference creation with a conference URI. Conference event package subscribed.</i></p> <p>Ensure that a conference can be created by a UE using the conference URI. The "isfocus" feature parameter indicated in Contact header is received in the 200 OK (INVITE). The conference participant shall store the content of the received Contact header as the conference URI. In addition the conference participant subscribes to the conference event package.</p>																											
<p>SIP header values: INVITE: Request URI contained the conference URI 200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field SUBSCRIBE: Request URI contained the conference URI Event header contains "conference" NOTIFY: Event contains conference; Subscription-State contains active; expires=xxxx</p>																											
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ISC#1		Focus																									
INVITE	→																										
200 OK (INVITE)	←																										
ACK	→																										
SUBSCRIBE	→																										
200 OK (SUBSCRIBE)	←																										
NOTIFY	←																										
200 OK NOTIFY	→																										

TSS	TP	Reference	Selection expression												
ConferenceFocus	CONF_N01_004	5.3.2.3/[3]	PICS 1/5												
<p>Test purpose <i>Conference creation with a conference URI. Conference event package not subscribed.</i></p> <p>Ensure that a conference can be created by a UE using the conference URI. The "isfocus" feature parameter indicated in Contact header is received in the 200 OK (INVITE). The conference participant shall store the content of the received Contact header as the conference URI. The conference participant does not subscribe to the conference event package.</p>															
<p>SIP header values: INVITE: Request URI contained the conference URI 200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field</p>															
<p>Comments:</p> <table border="0"> <thead> <tr> <th>ISC#1</th> <th></th> <th>Focus</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td>→</td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td>←</td> <td></td> </tr> <tr> <td>ACK</td> <td>→</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">Apply post test routine</p>				ISC#1		Focus	INVITE	→		200 OK (INVITE)	←		ACK	→	
ISC#1		Focus													
INVITE	→														
200 OK (INVITE)	←														
ACK	→														

TSS	TP	Reference	Selection expression																		
ConferenceFocus	CONF_N01_005	5.3.2.3/[3]	NOT PICS 1/4 AND PICS 1/7																		
<p>Test purpose Conference creation with a conference factory URI. Preconditions indicated a conference URI is sent in the first provisional response.</p> <p>Ensure that a conference can be created by a UE using the conference factory URI. Preconditions are requested by the originating UE. The "isfocus" feature parameter indicated in Contact header is received in the 200 OK (INVITE). The conference participant shall store the content of the received Contact header as the conference URI.</p> <p>SIP header values:</p> <p>INVITE: Request URI contained the conference factory URI SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv</p> <p>183 conference URI contained in the Contact header field SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv</p> <p>UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv</p> <p>200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv</p> <p>200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field SUBSCRIBE: Request URI contained the conference URI</p> <p>Comments:</p> <table> <thead> <tr> <th>ISC#1</th> <th>Focus</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td>→</td> </tr> <tr> <td>183 Session Progress</td> <td>←</td> </tr> <tr> <td>PRACK</td> <td>→</td> </tr> <tr> <td>200 OK PRACK</td> <td>←</td> </tr> <tr> <td>UPDATE</td> <td>→</td> </tr> <tr> <td>200 OK UPDATE</td> <td>←</td> </tr> <tr> <td>200 OK (INVITE)</td> <td>←</td> </tr> <tr> <td>ACK</td> <td>→</td> </tr> </tbody> </table> <p style="text-align: center;">Apply post test routine</p>				ISC#1	Focus	INVITE	→	183 Session Progress	←	PRACK	→	200 OK PRACK	←	UPDATE	→	200 OK UPDATE	←	200 OK (INVITE)	←	ACK	→
ISC#1	Focus																				
INVITE	→																				
183 Session Progress	←																				
PRACK	→																				
200 OK PRACK	←																				
UPDATE	→																				
200 OK UPDATE	←																				
200 OK (INVITE)	←																				
ACK	→																				

TSS	TP	Reference	Selection expression								
ConferenceFocus	CONF_N01_007	5.3.2.3/[3]									
<p>Test purpose Conference creation with a conference factory URI not allocated in the focus unsuccessful.</p> <p>Ensure that a conference cannot be created by a UE using the conference factory URI not allocated in the focus. The request is rejected by the focus with a 488 Not Acceptable Here final response.</p> <p>SIP header values: INVITE: Request URI contained the conference factory URI not allocated in the focus</p> <p>Comments:</p> <table> <thead> <tr> <th>ISC#1</th> <th>Focus</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td>→</td> </tr> <tr> <td>488 Not Acceptable Here</td> <td>←</td> </tr> <tr> <td>ACK</td> <td>→</td> </tr> </tbody> </table>				ISC#1	Focus	INVITE	→	488 Not Acceptable Here	←	ACK	→
ISC#1	Focus										
INVITE	→										
488 Not Acceptable Here	←										
ACK	→										

5.2.1.2 Joining a conference

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N02_001	5.3.2.4/[3]	NOT PICS 1/6
Test purpose <i>Participant dial-in the conference, the conference URI is used.</i>			
ISC#1 established a conference. ISC#2 joins in that conference after has been received a REFER request and the Refer-To header referring to the Focus. The UE sends an INVITE request to the conferencing AS the conference URI is known at the ISC#2. The request is successful.			
SIP header values: REFER: Request URI=ISC#2 Refer-To=Focus; method=INVITE Referred-By=ISC#1 INVITE 2: Focus 18x "isfocus" feature parameter indicated in Contact header field 200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field			
Comments:			
ISC#1	Focus		ISC#2
	Conference creation		
INVITE	→	INVITE	
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
	ISC#2 joining in the conference		
REFER	→		→
202 Accepted	←		←
			REFER
			202 Accepted
NOTIFY (100)	←		←
200 OK (NOTIFY)	→		→
			NOTIFY (100)
			200 OK (NOTIFY)
		INVITE	←
		18x	→
		200 OK INVITE	→
		ACK	←
			INVITE 2
			18x
			200 OK INVITE
			ACK
NOTIFY (200)	←		←
200 OK (NOTIFY)	→		→
			NOTIFY (200)
			200 OK (NOTIFY)
Apply post test routine			

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N02_002	5.3.2.4/[3]	
Test purpose <i>Participant dial-in the conference, the conference URI is not allocated, the request is rejected.</i>			
ISC#1 established a conference. ISC#2 joins in that conference. The conference URI in the INVITE request is not allocated at the focus. The request is rejected with the final response 4xx.			
SIP header values: INVITE 2: Request URI contained the conference URI not allocated in the focus (PIXIT)			
Comments:			
ISC#1	Focus		ISC#2
	Conference creation		
INVITE	→	INVITE	
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
	ISC#2 joining in the conference		
		INVITE	←
		4xx	→
		ACK	←
			INVITE 2
			4xx
			ACK

5.2.1.3 Inviting other users to a conference

TSS	TP	Reference	Selection expression																																																																																										
ConferenceFocus	CONF_N03_001	5.3.1.5.3/[3]	NOT PICS 1/6																																																																																										
Test purpose <i>Inviting participant by sending REFER to the focus.</i>																																																																																													
ISC#1 established a conference. ISC#1 invites ISC#2 to join into the conference. The ISC#1 sends a REFER to the focus; the focus sends an INVITE request to ISC#2 to invite the ISC#2 to the conference.																																																																																													
SIP header values: REFER: Request URI contained the conference URI Refer-To contains the URI of ISC#2 , method=invite Referred-By contains SIP URI of ISC#1 INVITE 2: Request URI contained the conference URI The P-Asserted-Identity contains the conference URI. "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field Referred-By contains SIP or tel URI of ISC#1 NOTIFY 1 Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying NOTIFY 2 Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK																																																																																													
Comments:																																																																																													
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TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N03_002	5.3.1.5.3/[3]	NOT PICS 1/6
Test purpose <i>Inviting participant by sending REFER to the participant.</i>			
ISC#1 established a conference. ISC#1 invites ISC#2 to join into the conference by sending a REFER to this participant. The participant sends an INVITE request to the focus to dial in. The conference event package is not subscribed.			
SIP header values: REFER: Request URI contained the URI of ISC#2 Refer-To contains the conference URI , method=invite Referred-By contains the URI of ISC#1 INVITE 2: Request URI contained the conference URI The P-Asserted-Identity contains the URI of ISC#2. "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field Referred-By contains SIP or tel URI of ISC#1 NOTIFY 1 Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying NOTIFY 2 Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
	ISC#1 invites ISC#2 to the conference		
REFER	→	→ REFER	
202 Accepted	←	← 202 Accepted	
NOTIFY	←	← NOTIFY 1	
200 OK NOTIFY	→	→ 200 OK NOTIFY	
	ISC#2 joins in the conference		
	INVITE	← INVITE 2	
	180 Ringing	→ 180 Ringing	
	200 OK INVITE	→ 200 OK INVITE	
	ACK	← ACK	
NOTIFY	← NOTIFY 2		
200 OK NOTIFY	→ 200 OK NOTIFY		
	Apply post test routine		

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N03_003	5.3.1.5.4/[3]	NOT PICS 1/6
Test purpose <i>Inviting participant by sending a participant list to the focus.</i>			
ISC#1 established a conference. A participant list is contained in the INVITE to create the conference. The AS establishes a communication to the user indicated in the participant list.			
SIP header values: INVITE 1: Request URI=Focus <resource-lists <entry uri="sip:ISC#2 cp:capacity="to" />			
INVITE 2: Request URI = ISC#2 The P-Asserted-Identity contains the conference URI. "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE 1	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
		Focus dials out to invite ISC#2	
		INVITE 2 → INVITE	
		180 Ringing ← 180 Ringing	
		200 OK INVITE ← 200 OK INVITE	
		ACK → ACK	
			Apply post test routine

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N03_004	5.3.1.5.4/[3]	NOT PICS 1/6
Test purpose <i>Inviting participant by sending a participant list to the focus in an active session.</i>			
ISC#1 established a conference. A participant list is contained in the INVITE to create the conference. The AS establishes a communication to the user indicated in the participant list.			
SIP header values: INVITE 1: Request URI=Focus <resource-lists <entry uri="<entry uri="S1 URI?Call-ID=S1&From=S1%3Btag%3DS1&To=S1%3Btag%3DS1" cp:copyControl="to"/>			
INVITE 2: Request URI = ISC#2 The P-Asserted-Identity contains the conference URI. "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field			
Comments:			
ISC#1	Focus	ISC#2	
INVITE (S1)			
180 Ringing			
200 OK INVITE			
ACK			
INVITE 1 (S1, sendonly)	→	→ INVITE	
200 OK (INVITE)	←	← 200 OK (INVITE (recvonly))	
ACK	→	→ ACK	
		Conference creation	
INVITE 1 (S2)	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
		Focus dials out to invite ISC#2	
		INVITE 2 → INVITE	
		180 Ringing ← 180 Ringing	
		200 OK INVITE ← 200 OK INVITE	
		ACK → ACK	
			Apply post test routine

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N03_005	5.3.1.3.3/[3]	
Test purpose <i>Three-way session creation. REFER is sent to the participants.</i>			
Ensure that it is possible that two active sessions are able to join in a three way session and the existing sessions with the served user is terminated by the remote users. The remote users receive a REFER request and the Refer-To header contains the address of the Focus. The remote users use the URI of the Refer-To header as the Request URI of the INVITE request.			
SIP header values: REFER (S1): Request line=ISC#2 Refer-To=Focus; method=INVITE Referred-By=ISC#1 REFER (S2): Request line=ISC#3 Refer-To=Focus; method=INVITE Referred-By=ISC#1 INVITE (S4): Request URI=Focus Referred-By=ISC#1 INVITE (S5): Request URI=Focus Referred-By=ISC#1			
Comments:			
ISC#1	Focus	ISC#2	ISC#3
Establish session #1			
Session #1 on hold			
Establish session #2			
Session #2 on hold			
INVITE (S3)	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
REFER (S1)	→	→ REFER	
202 Accepted	←	← 202 Accepted	
NOTIFY (100)	←	← NOTIFY (100)	
200 OK (NOTIFY)	→	→ 200 OK (NOTIFY)	
		INVITE ← INVITE (S4)	
		200 OK (INVITE) → 200 OK (INVITE)	
		ACK ← ACK	
NOTIFY (200)	←	← NOTIFY (200)	
200 OK (NOTIFY)	→	→ 200 OK (NOTIFY)	
BYE (S1)	→	→ BYE (S1)	
200 OK (BYE)	←	← 200 OK (BYE)	
REFER (S2)	→		→ REFER
202 Accepted	←		← 202 Accepted
NOTIFY (100)	←		← NOTIFY (100)
200 OK (NOTIFY)	→		→ 200 OK (NOTIFY)
		INVITE ←	← INVITE (S5)
		200 OK (INVITE) →	→ 200 OK (INVITE)
		ACK ←	← ACK
NOTIFY (200)	←		← NOTIFY (200)
200 OK (NOTIFY)	→		→ 200 OK (NOTIFY)
BYE (S1)	→		→ BYE (S2)
200 OK (BYE)	←		← 200 OK (BYE)
Apply post test routine			

TSS	TP	Reference	Selection expression																																																																																																																								
ConferenceFocus	CONF_N03_006	5.3.1.3.3/[3]																																																																																																																									
Test purpose <i>Three-way session creation. REFER is sent to the Focus.</i>																																																																																																																											
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Ensure that it is possible that two active sessions are able to join in a three way session and the existing sessions with the served user is terminated by the remote users. The remote users receive a Replaces header containing the data for the particular session. The sessions are terminated after the session to the focus is active.																																																																																																																											
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TSS	TP	Reference	Selection expression																																																				
ConferenceFocus	CONF_N03_008	5.3.1.3.3/[3]																																																					
Test purpose <i>Three-way session creation. URI list is sent to the Focus.</i>																																																							
Ensure that a three way session can be established by sending a uri-list in the initial INVITE request send to the conference AS to create a conference. The existing sessions remains and are now connected to the MRFC.																																																							
SIP header values: INVITE (S3) Request URI=Conference Factory UR) Content-Type: application/resource-lists+xml Content-Disposition: recipient-list <pre> <?xml version="1.0" encoding="UTF-8"?> <resource-lists xmlns="urn:ietf:params:xml:ns:resource-lists" xmlns:cp="urn:ietf:params:xml:ns:copyControl"> <list> <entry uri="S1 URI?Call-ID=S1&From=S1%3Btag%3DS1&To=S1%3Btag%3DS1" cp:copyControl="to"/> <entry uri="S2 URI?Call-ID=S2&From=S2%3Btag%3DS2&To=S2%3Btag%3DS2" cp:copyControl="to"/> </list> </resource-lists> </pre> INVITE (S1): SDP: MRFC INVITE (S2): SDP: MRFC																																																							
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TSS	TP	Reference	Selection expression																																																																								
ConferenceFocus	CONF_N03_009	4.5.2.2.1/[3]																																																																									
Test purpose <i>Referred-By value does not contain a valid identity of the requesting user.</i>																																																																											
Ensure that the value of the Referred-By header is replaced with the valid value matching the REFER request's P-Asserted-Identity if the Referred-By header does not contain a valid identity of the requesting user.																																																																											
SIP header values: REFER 1: Request line=Focus Refer-To=ISC#2; method=INVITE Referred-By=any value (PIXIT) P-Asserted-Identity=ISC#1 INVITE 1: Request URI=ISC#2 Referred-By=ISC#1																																																																											
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TSS	TP	Reference	Selection expression																																																						
ConferenceFocus	CONF_N03_010	4.5.2.2.1/[3]																																																							
<p>Test purpose <i>Referred-By header not present.</i></p> <p>Ensure that a Referred-By header is sent in the initial INVITE based on the REFER request and the REFER request does not contain a Referred-By header. The value of the Referred-By header matches the REFER request's P-Asserted-Identity value.</p>																																																									
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TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N03_011	5.3.1.5.2/[3]	
Test purpose			
<i>No method parameter present in the Refer-To header.</i>			
Ensure that the AS invites a remote user to a conference if the method parameter is not present in the Refer-To header of the received REFER request. The conference focus assumes that the method is INVITE.			
SIP header values:			
REFER 1: Request line=Focus Refer-To=ISC#2 P-Asserted-Identity=ISC#1 Referred-By=ISC#1			
INVITE 1: Request URI=ISC#2 Referred-By=ISC#1			
Comments:			
ISC#1	Focus	ISC#2	
Conference creation			
INVITE 1	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
ISC#1 invites ISC#2 to the conference			
REFER 1	→ REFER		
202 Accepted	← 202 Accepted		
Focus dials out to invite ISC#2			
	INVITE 1 →	INVITE	
NOTIFY	← NOTIFY 1		
200 OK NOTIFY	→ 200 OK NOTIFY		
	180 Ringing	← 180 Ringing	
	200 OK INVITE	← 200 OK INVITE	
	ACK	→ ACK	
NOTIFY	← NOTIFY 2		
200 OK NOTIFY	→ 200 OK NOTIFY		
Apply post test routine			

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N03_012	5.3.2.1/[3]	
Test purpose <i>Inviting participant by sending REFER to the participant. 3pcc REFER interworking applies.</i>			
<p>The CONF AS has prior knowledge that the Transferee is not allowed to receive or does not support the REFER method. Ensure that the Focus when receives the REFER request accepts the request and acts according the requirement of the Refer-To header. The Focus sends an INVITE request to the Participant to invite to the conference.</p>			
SIP header values: REFER: Request URI contained the URI of ISC#2 Refer-To contains the conference URI , method=invite Referred-By contains the URI of ISC#1 INVITE 2: Request URI contained ISC#2 URI The P-Asserted-Identity = conference URI "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field Referred-By contains SIP or tel URI of ISC#1 NOTIFY 1 Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying NOTIFY 2 Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE	→	INVITE	
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
	ISC#1 invites ISC#2 to the conference		
REFER	→		
202 Accepted	←		
NOTIFY	←	NOTIFY 1	
200 OK NOTIFY	→	200 OK NOTIFY	
		Focus dials out to invite ISC#2	
		INVITE → INVITE 2	
		180 Ringing ← 180 Ringing	
		200 OK INVITE ← 200 OK INVITE	
		ACK → ACK	
NOTIFY	←	NOTIFY 2	
200 OK NOTIFY	→	200 OK NOTIFY	
		Apply post test routine	

5.2.1.4 Leaving a conference

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N04_001	5.3.2.6/[3]	PICS 1/6
Test purpose <i>A participant leaves the conference.</i>			
ISC#2 wishes to leave the conference by sending a BYE request to the focus in accordance to the basic call procedures.			
SIP header values: REFER 1: Request line=Focus Refer-To=ISC#2 P-Asserted-Identity=ISC#1 Referred-By=ISC#1			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
REFER	→		
202 Accepted	←		
	Focus dials out to invite ISC#2		
	INVITE	→ INVITE 2	
	180 Ringing	← 180 Ringing	
	200 OK INVITE	← 200 OK INVITE	
	ACK	→ ACK	
	Conference communication		
	Participant leaves the conference		
		← BYE	
		→ 200 OK BYE	
	Apply post test routine		

5.2.1.5 Removing a conference participant from a conference

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N05_001	5.3.2.6/[3]	
Test purpose <i>A participant asks the Conference AS to remove a other participant from the conference.</i>			
The conference AS verify the identity of the user and authorize the request. A participant is not authorized to remove another participant from the conference. The request fails			
SIP header values: REFER (S5): Request line=Focus Refer-To=ISC#2; method=BYE Referred-By=ISC#3			
Comments:			
ISC#1	Focus	ISC#2	ISC#3
	ISC#1 creates a conference		
	Invite participant ISC#2 to the conference (dial out)		
	Invite participant ISC#3 to the conference (dial out)		
	REFER (S5)	←	← REFER (S5)
	4xx	→	→ 4xx
	Apply post test routine		

TSS	TP	Reference	Selection expression																																																																								
ConferenceFocus	CONF_N05_002	5.3.2.6/[3]	PICS 1/6																																																																								
<p>Test purpose <i>The conference owner asks the focus to remove a participant from the conference.</i></p> <p>ISC#2 asks the focus by sending a REFER request to removes another participant from the conference. In this case the focus sends a BYE request to this participant.</p>																																																																											
<p>SIP header values: REFER 1: Request URI contained the URI of conference URI Refer-To contains the ISC#2 URI, method=BYE Referred-By contains the URI of ISC#1 URI NOTIFY 1 Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying NOTIFY 2 Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK</p>																																																																											
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5.2.1.6 Conference termination

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N06_001	5.3.2.7/[3]	
Test purpose			
<i>The conference owner releases the entire conference by sending a BYE to the focus.</i>			
SIP#1, the conference owner, sends a BYE request to the focus. The entire conference is released.			
SIP header values: BYE: Request URI = conference URI			
Comments:			
SIP#1	Focus	SIP#2	
Conference creation			
INVITE	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
REFER	→		
202 Accepted	←		
Focus dials out to invite ISC#2			
	INVITE	→ INVITE 2	
	180 Ringing	← 180 Ringing	
	200 OK INVITE	← 200 OK INVITE	
	ACK	→ ACK	
Conference communication			
Conference creator wishes to finish the entire conference			
BYE	→ BYE		
200 OK BYE	← 200 OK BYE		
focus removes SIP#2 from the conference			
		→ BYE	
		← 200 OK BYE	
Apply post test routine			

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N06_002	5.3.2.7/[3]	PICS 1/6
Test purpose			
<i>Conference termination when the conference creator has left the conference.</i>			
Ensure that the conference is terminated when the conference creator has left the conference.			
SIP header values:			
REFER 1: Request line=Focus Refer-To=ISC#2 P-Asserted-Identity=ISC#1 Referred-By=ISC#1			
Comments:			
ISC#1	Focus	ISC#2	
Conference creation			
INVITE (S1)	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
REFER	→		
202 Accepted	←		
Focus dials out to invite ISC#2			
	INVITE (S2)	→ INVITE 2	
	180 Ringing	← 180 Ringing	
	200 OK INVITE	← 200 OK INVITE	
	ACK	→ ACK	
Conference communication			
Conference creator leaves the conference			
BYE (S1)	→ BYE (S1)		
200 OK BYE	← 200 OK BYE		
	BYE (S2)	→ BYE	
	200 OK BYE	← 200 OK BYE	

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N06_003	5.3.2.7/[3]	PICS 1/6
Test purpose Conference termination when the last participant left the conference.			
Ensure that the conference is terminated if the last participant has left the conference.			
SIP header values: REFER 1: Request line=Focus Refer-To=ISC#2 P-Asserted-Identity=ISC#1 Referred-By=ISC#1			
Comments:			
ISC#1		Focus	ISC#2
		Conference creation	
INVITE (S1)	→	INVITE	
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
REFER	→		
202 Accepted	←		
		Focus dials out to invite ISC#2	
		INVITE (S2)	→ INVITE
		180 Ringing	← 180 Ringing
		200 OK INVITE	← 200 OK INVITE
		ACK	→ ACK
		Conference communication	
		Conference creator leaves the conference	
		BYE	← BYE (S2)
		200 OK BYE	→ 200 OK BYE
BYE (S1)	←	BYE	
200 OK BYE	→	200 OK BYE	

5.2.2 Conference Notification Service

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N07_001	5.3.3/[3]	
Test purpose Conference creation, notification service.			
Ensure that the notification procedure for the conference creation can be performed. The UE, creates the conference subscribes the notification service by sending a SUBSCRIBE.			
SIP header values: SUBSCRIBE: Request URI contained the conference URI Event header contains "conference" NOTIFY: Event contains conference ; Subscription-State contains active ; expires=xxxx			
Comments:			
ISC#1		Focus	
INVITE	→		
200 OK (INVITE)	←		
ACK	→		
SUBSCRIBE	→		
200 OK (SUBSCRIBE)	←		
NOTIFY	←		
200 OK NOTIFY	→		
Apply post test routine			

TSS	TP	Reference	Selection expression																																																
ConferenceFocus	CONF_N07_002	5.3.3/[3]																																																	
Test purpose <i>Participants dial-in the conference, notification service.</i>																																																			
Ensure that the notification procedure for the dial-in in a conference can be performed. The UE, joins to the conference, subscribes the notification service by sending a SUBSCRIBE.																																																			
SIP header values: SUBSCRIBE: Request URI contained the conference URI, Event contains "conference" Event header contains "conference" NOTIFY 1: Event contains conference ; Subscription-State contains active; expires=xxxx application/conference-info+xml: <pre> <conference-info> entity=conference URI state="full" version="x" </conference-info> <conference-state> <user-count>2</user-count> if present <active>true</active> if present </users> <user entity=ISC#1 URI state="full" <endpoint entity=Endpoint ISC#1 URI <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status> </user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status> </pre>																																																			
Comments: <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;">ISC#1</th> <th style="text-align: center; width: 40%;">Focus Conference creation</th> <th style="text-align: right; width: 30%;">ISC#2</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">➔ INVITE</td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">⬅ 200 OK (INVITE)</td> <td></td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">➔ ACK</td> <td></td> </tr> <tr> <td>REFER</td> <td style="text-align: center;">➔</td> <td style="text-align: right;">➔ REFER</td> </tr> <tr> <td>200 OK (REFER)</td> <td style="text-align: center;">⬅</td> <td style="text-align: right;">⬅ 200 OK (REFER)</td> </tr> <tr> <td></td> <td style="text-align: center;">ISC#2 joining in the conference</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">INVITE</td> <td style="text-align: right;">⬅ INVITE 2</td> </tr> <tr> <td></td> <td style="text-align: center;">18x</td> <td style="text-align: right;">➔ 18x</td> </tr> <tr> <td></td> <td style="text-align: center;">200 OK INVITE</td> <td style="text-align: right;">➔ 200 OK INVITE</td> </tr> <tr> <td></td> <td style="text-align: center;">ACK</td> <td style="text-align: right;">⬅ ACK</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">⬅ SUBSCRIBE</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">➔ 200 OK (SUBSCRIBE)</td> </tr> <tr> <td></td> <td style="text-align: center;">NOTIFY 1</td> <td style="text-align: right;">➔ NOTIFY</td> </tr> <tr> <td></td> <td style="text-align: center;">200 OK NOTIFY</td> <td style="text-align: right;">⬅ 200 OK NOTIFY</td> </tr> <tr> <td></td> <td style="text-align: center;">Apply post test routine</td> <td></td> </tr> </tbody> </table>				ISC#1	Focus Conference creation	ISC#2	INVITE	➔ INVITE		200 OK (INVITE)	⬅ 200 OK (INVITE)		ACK	➔ ACK		REFER	➔	➔ REFER	200 OK (REFER)	⬅	⬅ 200 OK (REFER)		ISC#2 joining in the conference			INVITE	⬅ INVITE 2		18x	➔ 18x		200 OK INVITE	➔ 200 OK INVITE		ACK	⬅ ACK			⬅ SUBSCRIBE			➔ 200 OK (SUBSCRIBE)		NOTIFY 1	➔ NOTIFY		200 OK NOTIFY	⬅ 200 OK NOTIFY		Apply post test routine	
ISC#1	Focus Conference creation	ISC#2																																																	
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	NOTIFY 1	➔ NOTIFY																																																	
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	Apply post test routine																																																		

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N07_003	5.3.3/[3]	
Test purpose			
<i>Participants dial-in the conference, notification service for conference creator.</i>			
Ensure that the notification procedure for dial-in in a conference can be performed to the participant who created the conference.			
SIP header values:			
NOTIFY 2: Event contains conference ; Subscription-State contains active application/conference-info+xml: <pre> <conference-info> entity=conference URI, state="full", version="x" </conference-info> <conference-state> <user-count>2</user-count> if present <active>true</active> if present </users> <user entity=ISC#1 URI state="full" <endpoint entity=endpoint ISC#1 URI <status>connected</status> <joining-method>dialled-in</ joining-method> <media id="1" <status>sendrecv</status> <user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialled-in</ joining-method> <media id="1" <status>sendrecv</status> </pre>			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE 200 OK (INVITE) ACK SUBSCRIBE 200 OK (SUBSCRIBE) NOTIFY 200 OK NOTIFY	→ INVITE ← 200 OK (INVITE) → ACK → SUBSCRIBE ← 200 OK (SUBSCRIBE) ← NOTIFY → 200 OK NOTIFY		
REFER 200 OK (REFER)	→ ←	→ REFER ← 200 OK (REFER)	
	ISC#2 joining in the conference		
	INVITE 18x 200 OK INVITE ACK	← INVITE 2 → 18x → 200 OK INVITE ← ACK	
NOTIFY 200 OK NOTIFY	← NOTIFY 2 → 200 OK NOTIFY		
Apply post test routine			

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N07_004	5.3.3/[3]	
Test purpose			
<i>Focus dial-out to invite a Participant to the conference, notification service for conference creator.</i>			
Ensure that the notification procedure for dial-out in a conference can be performed to the participant who created the conference.			
SIP header values:			
NOTIFY 2: Event contains conference ; Subscription-State contains active application/conference-info+xml: <pre> <conference-info> entity=conference URI, state="full", version="x" </conference-info> <conference-state> <user-count>2</user-count> if present <active>true</active> if present </users> <user entity=ISC#1 URI state="full" <endpoint entity=endpoint ISC#1 URI <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status> <user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialed-out</ joining-method> <media id="1" <status>sendrecv</status> </pre>			
Comments:			
ISC#1	Focus	ISC#2	
Conference creation			
INVITE	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
SUBSCRIBE	→ SUBSCRIBE		
200 OK (SUBSCRIBE)	← 200 OK (SUBSCRIBE)		
NOTIFY	← NOTIFY 1		
200 OK NOTIFY	→ 200 OK NOTIFY		
REFER	→		
200 OK (REFER)	←		
Focus invites ISC#2 to the conference			
	INVITE →	INVITE 2	
	18x ←	18x	
	200 OK INVITE ←	200 OK INVITE	
	ACK →	ACK	
NOTIFY	← NOTIFY 2		
200 OK NOTIFY	→ 200 OK NOTIFY		
Apply post test routine			

TSS	TP	Reference	Selection expression
ConferenceFocus	CONF_N07_005	5.3.3/[3]	
Test purpose			
<i>Focus dial-out to invite a Participant to the conference, notification service for the participant.</i>			
Ensure that the notification procedure for dial-in in a conference can be performed to the participant invited to the conference.			
SIP header values:			
NOTIFY: Event contains conference ; Subscription-State contains active application/conference-info+xml: <pre> <conference-info> entity=conference URI, state="full", version="x" </conference-info> <conference-state> <user-count>2</user-count> if present <active>true</active> if present </users> <user entity=ISC#1 URI state="full" <endpoint entity=endpoint ISC#1 URI <status>connected</status> <joining-method>dialled-in</ joining-method> <media id="1" <status>sendrecv</status> <user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialled-out</ joining-method> <media id="1" <status>sendrecv</status> </pre>			
Comments:			
ISC#1	Focus	ISC#2	
Conference creation			
INVITE	➔	INVITE	
200 OK (INVITE)	➤	200 OK (INVITE)	
ACK	➔	ACK	
REFER	➔		
200 OK (REFER)	➤		
Focus invites ISC#2 to the conference			
	➔	INVITE 2	
	➤	18x	
	➤	200 OK INVITE	
	➔	ACK	
	➤	SUBSCRIBE	
	➔	200 OK (SUBSCRIBE)	
	➔	NOTIFY	
	➤	200 OK NOTIFY	
Apply post test routine			

TSS ConferenceFocus	TP CONF_N07_006	Reference 5.3.3/[3]	Selection expression PICS 1/6																																								
<p>Test purpose A participant leaves the conference. <i>The remaining participant is notified.</i></p> <p>A participant wishes to leave the conference by sending a BY request to the focus. Ensure that the notification procedure can be performed to the participant who created the conference.</p>																																											
<p>SIP header values: NOTIFY Event contains conference; Subscription-State contains active application/conference-info+xml:</p> <pre> <conference-info> entity=conference URI, state="full", version="x" </conference-info> <conference-state> <user-count>1</user-count> if present <active>>true</active> if present <users> <user entity=ISC#1 URI state="full" <endpoint entity=endpoint ISC#1 URI <status>connected</status> <joining-method>dialled-in</ joining-method> <media id="1" <status>sendrecv</status> </user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialled-out</ joining-method> <media id="1" <status>sendrecv</status> </user entity=ISC#3 URI state="full" <endpoint entity=endpoint ISC#3 URI <status>disconnected</status> <joining-method>dialled-out</ joining-method> <disconnecten-type>departed</ disconnecten-type> <media id="1" <status>sendrecv</status> </conference-state> </pre>																																											
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Apply post test routine																																											

TSS ConferenceFocus	TP CONF_N07_007	Reference 5.3.3/[3]	Selection expression PICS 1/6
Test purpose <i>A participant leaves the conference. The relevant participant is notified.</i>			
A participant wishes to leave the conference by sending a BY request to the focus. Ensure that the notification procedure can be performed to the relevant participant.			
SIP header values: NOTIFY 1 Event contains conference ; Subscription-State contains terminated			
Comments:			
ISC#1	Focus	ISC#2	ISC#3
	ISC#1 creates a conference		
	Invite participant ISC#2 to the conference (dial out)		
	Invite participant ISC#3 to the conference (dial out)		
	Participant leaves the conference		
	BYE ←		← BYE
	200 OK BYE →		→ 200 OK BYE
	NOTIFY 1 →		→ NOTIFY
	200 NOTIFY ←		← 200 NOTIFY
	Apply post test routine		

TSS	TP	Reference	Selection expression																																																																		
ConferenceFocus	CONF_N07_008	5.3.3/[3]	PICS 1/6																																																																		
<p>Test purpose <i>A participant is removed from the conference. The conference creator is notified.</i></p> <p>A participant is removed from the conference by receiving a BY request from the focus. Ensure that the notification procedure can be performed to the participant who created the conference.</p>																																																																					
<p>SIP header values: NOTIFY 2 Event contains conference; Subscription-State contains active application/conference-info+xml: <pre> <conference-info> entity=conference URI, state="full", version="x" <conference-state> <user-count>1</user-count> if present <active>true</active> if present <users> <user entity=ISC#1 URI state="full" <endpoint entity=endpoint ISC#1 URI <status>connected</status> <joining-method>dialled-in</ joining-method> <media id="1" <status>sendrecv</status> <user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialled-out</ joining-method> <media id="1" <status>sendrecv</status> <user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>disconnected</status> <joining-method>dialled-out</ joining-method> <disconnecten-type>booted</ disconnecten-type> <media id="1" <status>sendrecv</status> </pre> </p>																																																																					
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NOTIFY	←	NOTIFY																																																																			
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5.2.3 Actions at the UE

TSS	TP	Reference	Selection expression																																																																														
UserEquipment	CONF_U01_001	5.3.1/[3]																																																																															
<p>Test purpose <i>Conference creation by Three-way session creation. REFER request to the Focus, Conference notification service is subscribed.</i></p> <p>The conference participant is participating in two SIP sessions and wants to join together two of these active sessions to a so-called three-way session. The conference notification service is subscribed. The conference participant shall perform the following steps:</p> <ul style="list-style-type: none"> • Create a conference at the conference focus by sending an INVITE request with the conference factory URI for the three-way session towards the conference focus. • Perform for each of the active sessions, that are requested to be joined to the three-way session by performing the procedures for inviting a user to a conference by sending a REFER request to the Focus. • The UE releases the session 1 and 2 after the UE was informed concerned the session to the focus is established by Test Equipment S1 and Test Equipment S2. 																																																																																	
<p>SIP header values:</p> <p>INVITE: Request URI contained the conference factory URI</p> <p>200 OK: "isfocus" feature parameter indicated in Contact header field conference URI contained in the Contact header field</p> <p>SUBSCRIBE: Request URI contained the conference URI header contains "conference"</p> <p>NOTIFY 1: Event contains conference; Subscription-State contains active; expires=xxxx</p> <p>REFER: Refer-to header contains the conference URI</p> <p>NOTIFY 2: Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying</p> <p>NOTIFY 3: Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK application/conference-info+xml contains (S1) connected, dialled-in</p> <p>NOTIFY 4: Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying</p> <p>NOTIFY 5: Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK application/conference-info+xml contains (S2) connected, dialled-in</p>																																																																																	
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TSS	TP	Reference	Selection expression																																																						
UserEquipment	CONF_U01_002	5.3.1/[3]																																																							
<p>Test purpose <i>Conference creation by Three-way session creation. REFER request to the Focus, Conference notification service not subscribed.</i></p> <p>The conference participant is participating in two SIP sessions and wants to join together two of these active sessions to a so-called three-way session. The conference notification service is not subscribed. The conference participant shall perform the following steps:</p> <ul style="list-style-type: none"> • Create a conference at the conference focus by sending an INVITE request with the conference factory URI for the three-way session towards the conference focus. • Perform for each of the active sessions, that are requested to be joined to the three-way session by performing the procedures for inviting a user to a conference by sending a REFER request to the Focus. • The ISC#1 releases the session 1 and 2 after the UE was informed concerned the session to the focus is established by Test Equipment S1 and Test Equipment S2. 																																																									
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TSS	TP	Reference	Selection expression																																																						
UserEquipment	CONF_U01_005	4.5.2.1.2/[3]																																																							
<p>Test purpose <i>Conference creation by Three-way session creation. REFER request to the user, Replaces method is used</i></p> <p>The conference participant is participating in two SIP sessions and wants to join together two of these active sessions to a so-called three-way session. The replaces method is used to terminate previous individual sessions. The conference participants shall perform the following steps:</p> <ul style="list-style-type: none"> • Create a conference at the conference focus by sending an INVITE request with the conference factory URI for the three-way session towards the conference focus. • Perform for each of the active sessions, that are requested to be joined to the three-way session by performing the procedures for inviting a user to a conference by sending a REFER request to the user. • The Test Equipment S1 and Test Equipment S2 terminates the session 1 and 2 as indicated in the Replaces header received in the INVITE from the focus. 																																																									
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TSS	TP	Reference	Selection expression
UserEquipment	CONF_U01_006	4.5.2.1.2/[3]	
Test purpose <i>The User Equipment has the capability to create a conference.</i>			
Ensure that the User Equipment to send an initial INVITE request and the Request URI contains a conference factory URI.			
SIP header values: INVITE: Request URI=conference factory URI 200 OK (INVITE):Contact: conference URI;isfocus			
Comments:			
User Equipment		Test Equipment	
INVITE	→	INVITE	
200 OK	←	200 OK	
ACK	→	ACK	
Apply post test routine			

TSS	TP	Reference	Selection expression
UserEquipment	CONF_U01_006	4.5.2.1.2/[3]	
Test purpose <i>The User Equipment has the capability to invite a participant to the conference. REFER request to the participant.</i>			
Ensure that the User Equipment is able to invite a participant to the established conference. The User Equipment sends a REFER request to the participant and the Refer-To header URI is set to the conference URI, the method parameter is set to INVITE.			
SIP header values: REFER: Request URI=TestEquipment (User = PIXIT) Refer-To=conference URI; method=INVITE Referred-By=User Equipment URI NOTIFY: Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying NOTIFY: Event contains conference ; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK			
Comments:			
User Equipment		Test Equipment	
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200 OK	←	200 OK	
ACK	→	ACK	
REFER	→	REFER	
202 Accepted	←	202 Accepted	
NOTIFY	←	NOTIFY 1	
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<p>Ensure that the User Equipment is able to send a resource list to the conference AS to invite a participant to a conference.</p>																																										
<p>SIP header values: INVITE (S1) Request URI=User Equipment (PIXIT) INVITE (S2) Request URI=Test Equipment (Conference Factory URI) Content-Type: application/resource-lists+xml Content-Disposition: recipient-list</p> <pre><?xml version="1.0" encoding="UTF-8"?> <resource-lists xmlns="urn:ietf:params:xml:ns:resource-lists" xmlns:cp="urn:ietf:params:xml:ns:copyControl"> <list> <entry uri="S1 URI?Call-ID=S1&From=S1%3Btag%3DS1&To=S1%3Btag%3DS1" cp:copyControl="to"/> </list> </resource-lists></pre> <p>NOTIFY: Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying</p> <p>NOTIFY: Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK</p>																																										
<p>Comments:</p> <table border="0"> <thead> <tr> <th data-bbox="172 913 368 945">User Equipment</th> <th data-bbox="767 913 799 945"></th> <th data-bbox="836 913 1023 945">Test Equipment</th> </tr> </thead> <tbody> <tr> <td data-bbox="172 945 368 976">INVITE</td> <td data-bbox="767 945 799 976">←</td> <td data-bbox="836 945 1023 976">INVITE (S1)</td> </tr> <tr> <td data-bbox="172 976 368 1008">180 Ringing</td> <td data-bbox="767 976 799 1008">→</td> <td data-bbox="836 976 1023 1008">180 Ringing</td> </tr> <tr> <td data-bbox="172 1008 368 1039">200 OK (INVITE)</td> <td data-bbox="767 1008 799 1039">→</td> <td data-bbox="836 1008 1023 1039">200 OK (INVITE)</td> </tr> <tr> <td data-bbox="172 1039 368 1070">ACK</td> <td data-bbox="767 1039 799 1070">←</td> <td data-bbox="836 1039 1023 1070">ACK</td> </tr> <tr> <td data-bbox="172 1084 368 1115">INVITE (S2, SDP=sendonly)</td> <td data-bbox="767 1084 799 1115">→</td> <td data-bbox="836 1084 1023 1115">INVITE</td> </tr> <tr> <td data-bbox="172 1115 368 1146">200 OK</td> <td data-bbox="767 1115 799 1146">←</td> <td data-bbox="836 1115 1023 1146">200 OK (SDP=recvonly)</td> </tr> <tr> <td data-bbox="172 1146 368 1178">ACK</td> <td data-bbox="767 1146 799 1178">→</td> <td data-bbox="836 1146 1023 1178">ACK</td> </tr> <tr> <td data-bbox="172 1191 368 1223">INVITE (S2)</td> <td data-bbox="767 1191 799 1223">→</td> <td data-bbox="836 1191 1023 1223">INVITE</td> </tr> <tr> <td data-bbox="172 1223 368 1254">200 OK</td> <td data-bbox="767 1223 799 1254">←</td> <td data-bbox="836 1223 1023 1254">200 OK</td> </tr> <tr> <td data-bbox="172 1254 368 1285">ACK</td> <td data-bbox="767 1254 799 1285">→</td> <td data-bbox="836 1254 1023 1285">ACK</td> </tr> <tr> <td data-bbox="172 1299 368 1330">BYE (S1)</td> <td data-bbox="767 1299 799 1330">→</td> <td data-bbox="836 1299 1023 1330">BYE (S1)</td> </tr> <tr> <td data-bbox="172 1330 368 1361">200 OK (BYE)</td> <td data-bbox="767 1330 799 1361">←</td> <td data-bbox="836 1330 1023 1361">200 OK (BYE)</td> </tr> </tbody> </table> <p style="text-align: center;">Apply post test routine</p>				User Equipment		Test Equipment	INVITE	←	INVITE (S1)	180 Ringing	→	180 Ringing	200 OK (INVITE)	→	200 OK (INVITE)	ACK	←	ACK	INVITE (S2, SDP=sendonly)	→	INVITE	200 OK	←	200 OK (SDP=recvonly)	ACK	→	ACK	INVITE (S2)	→	INVITE	200 OK	←	200 OK	ACK	→	ACK	BYE (S1)	→	BYE (S1)	200 OK (BYE)	←	200 OK (BYE)
User Equipment		Test Equipment																																								
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5.3 Interaction with other supplementary services

5.3.1 Terminating Identification Restriction (TIR)

TSS	TP	Reference	Selection expression																																																																																										
Interaction/TIR	CONF_N08_001	4.6.3/[3]																																																																																											
<p>Test purpose <i>Privacy according TIR in the conference notification info send in the INFO request to the conference creator.</i></p> <p>Ensure the no identity is sent to the conference creator if a Privacy header was received and the privacy vale was set to "id" in the 18x or 200 OK to the INVITE to invite the participant to the conference.</p>																																																																																													
<p>SIP header values: 200 OK INVITE 1: Privacy: id NOTIFY 2: Event contains conference; Subscription-State contains active application/conference-info+xml: <conference-info> entity=conference URI, state="full", version="x" <conference-state> <user-count>2</user-count> if present <active>true</active> if present <users> <user entity=ISC#1 URI state="full" <endpoint entity=endpoint ISC#1 URI <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status> [No identity information of ISC#2 or Element is not present]</p>																																																																																													
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ISC#1		Focus		ISC#2																																																																																									
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5.3.2 Originating Identification Restriction (OIR)

TSS	TP	Reference	Selection expression																																																																																					
	CONF_N09_001	4.6.5/[3]																																																																																						
<p>Test purpose <i>Conference creator subscribes to OIR: The There is no identity of the creator included in the conference notification.</i></p> <p>Ensure that the conference notification sent in the NOTIFY request after the participant was join to the conference if the conference creator has subscribed to the OIR service.</p> <p>SIP header values: SUBSCRIBE: Request URI contained the conference URI, Event contains "conference" Event header contains "conference" NOTIFY 1: Event contains conference; Subscription-State contains active; expires=xxxx application/conference-info+xml: <conference-info> entity=conference URI state="full" version="x" <conference-state> <user-count>2</user-count> if present <active>true</active> if present <users> [No identity information of ISC#1 or Element is not present] <user entity=ISC#2 URI state="full" <endpoint entity=endpoint ISC#2 URI <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status></p>																																																																																								
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TSS	TP	Reference	Selection expression
	CONF_N09_002	4.6.5/[3]	
Test purpose <i>Referred-By is not sent in the INVITE request if Privacy value "user" was received in the REFER.</i>			
Ensure that the Referred-By received in the REFER request is not sent in the INVITE request sent to the participant to invite to the conference if the REFER request contains a Privacy header and the value is set to "user".			
SIP header values: REFER 1: Referred-By=ISC#1 Privacy: user INVITE 1: Request URI=ISC#2 no Referred-By included			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
ISC#1 invites ISC#2 to the conference			
REFER 1	→ REFER		
202 Accepted	← 202 Accepted		
Focus dials out to invite ISC#2			
	INVITE 1	→ INVITE	
NOTIFY	← NOTIFY 1		
200 OK NOTIFY	→ 200 OK NOTIFY		
	180 Ringing	← 180 Ringing	
	200 OK INVITE	← 200 OK INVITE	
	ACK	→ ACK	
NOTIFY	← NOTIFY 2		
200 OK NOTIFY	→ 200 OK NOTIFY		
Apply post test routine			

TSS	TP	Reference	Selection expression
	CONF_N09_003	4.6.5/[3]	
Test purpose <i>Referred-By is removed from the INVITE request if Privacy value "user" was received in the REFER.</i>			
Ensure that the Referred-By header is not sent in the INVITE request sent to the participant invited to the conference if the REFER request contains the Privacy header and the value is set to "user".			
SIP header values: REFER 1: Referred-By=ISC#1 Privacy: user INVITE 1: Request URI=ISC#2 no Referred-By included			
Comments:			
ISC#1	Focus	ISC#2	
	Conference creation		
INVITE	→ INVITE		
200 OK (INVITE)	← 200 OK (INVITE)		
ACK	→ ACK		
ISC#1 invites ISC#2 to the conference			
REFER 1	→ REFER		
202 Accepted	← 202 Accepted		
Focus dials out to invite ISC#2			
	INVITE 1	→ INVITE	
NOTIFY	← NOTIFY 1		
200 OK NOTIFY	→ 200 OK NOTIFY		
	180 Ringing	← 180 Ringing	
	200 OK INVITE	← 200 OK INVITE	
	ACK	→ ACK	
NOTIFY	← NOTIFY 2		
200 OK NOTIFY	→ 200 OK NOTIFY		
Apply post test routine			

TSS	TP	Reference	Selection expression																																																																																										
	CONF_N09_004	4.6.5/[3]																																																																																											
<p>Test purpose <i>Referred-By is removed from the INVITE request if Privacy value "header" was received in the REFER.</i></p> <p>Ensure that the Referred-By header is not sent in the INVITE request sent to the participant invited to the conference if the REFER request contains the Privacy header and the value is set to "header".</p>																																																																																													
<p>SIP header values: REFER 1: Referred-By=ISC#1 Privacy: header INVITE 1: Request URI=ISC#2 no Referred-By included</p>																																																																																													
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TSS	TP	Reference	Selection expression																																																																	
	CONF_N09_005	4.6.5/[3]	NOT PICS 1/6																																																																	
<p>Test purpose <i>Inviting participant by sending a participant list to the focus in an active session.</i></p> <p>ISC#1 established a conference. A participant list is contained in the INVITE to create the conference. The AS establishes a communication to the user indicated in the participant list.</p>																																																																				
<p>SIP header values: INVITE 1: Request URI=Focus Privacy user <resource-lists <entry uri="<entry uri="S1 URI?Call-ID=S1&From=S1%3Btag%3DS1&To=S1%3Btag%3DS1" cp:copyControl="to"/></p> <p>INVITE 2: Request URI = ISC#2 From <sip:anonymous@anonymous.invalid></p>																																																																				
<p>Comments:</p> <table border="0"> <thead> <tr> <th>ISC#1</th> <th></th> <th>Focus</th> <th></th> <th>ISC#2</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>Establish session #1</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Session #1 on hold</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Conference creation</td> <td></td> <td></td> </tr> <tr> <td>INVITE 1 (S2)</td> <td>→</td> <td>INVITE</td> <td></td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td>←</td> <td>200 OK (INVITE)</td> <td></td> <td></td> </tr> <tr> <td>ACK</td> <td>→</td> <td>ACK</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Focus dials out to invite ISC#2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>INVITE 2 →</td> <td>INVITE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>180 Ringing ←</td> <td>180 Ringing</td> </tr> <tr> <td></td> <td></td> <td></td> <td>200 OK INVITE ←</td> <td>200 OK INVITE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>ACK →</td> <td>ACK</td> </tr> <tr> <td></td> <td></td> <td>Apply post test routine</td> <td></td> <td></td> </tr> </tbody> </table>				ISC#1		Focus		ISC#2			Establish session #1					Session #1 on hold					Conference creation			INVITE 1 (S2)	→	INVITE			200 OK (INVITE)	←	200 OK (INVITE)			ACK	→	ACK							Focus dials out to invite ISC#2				INVITE 2 →	INVITE				180 Ringing ←	180 Ringing				200 OK INVITE ←	200 OK INVITE				ACK →	ACK			Apply post test routine		
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5.3.3 Anonymous Communication Rejection and Communication Barring (ACR/CB)

TSS	TP	Reference	Selection expression
	CONF_N10_001	4.6.9/[3]	
Test purpose <i>A REFER request targeted to the participant barred by the conference creator OCB rules is rejected.</i>			
Ensure that the conference AS rejects the REFER request targeted to a participant that is barred by the conference creators Outgoing Communication Barring (OCB) rules.			
SIP header values: REFER: Request URI contained the conference URI Refer-To contains the URI of ISC#2 , method=invite Referred-By contains SIP URI of ISC#1			
Comments:			
ISC#1		Focus	ISC#2
		Conference creation	
INVITE	→	INVITE	
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
		ISC#1 invites ISC#2 to the conference	
REFER	→	REFER	
4xx	←	4xx	
		Apply post test routine	

TSS	TP	Reference	Selection expression
	CONF_N10_002	4.6.9/[3]	
Test purpose <i>The Focus removes the URI from the uri-list that is barred.</i>			
Ensure that the focus AS removes the URI that is barred by the conference creator Outgoing Communication Barring (OCB) rules from the list of URIs in the "recipient-list" body of INVITE request. The recipient in the list barred by the creator's OCB rules is not invited to the conference.			
SIP header values: INVITE (S1) Request URI=Test Equipment (Conference Factory URI) Content-Type: application/resource-lists+xml Content-Disposition: recipient-list <pre><?xml version="1.0" encoding="UTF-8"?> <resource-lists xmlns="urn:ietf:params:xml:ns:resource-lists" xmlns:cp="urn:ietf:params:xml:ns:copyControl"> <list> <entry uri="ISC#2" cp:copyControl="to"/> <entry uri="ISC#3" cp:copyControl="to"/> </list> </resource-lists></pre>			
Comments:			
ISC#1		Focus	ISC#2
			ISC#3
INVITE (S1)	→	INVITE	
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
		INVITE (S2)	→ INVITE
		200 OK (INVITE)	← 200 OK (INVITE)
		ACK	→ ACK
200 OK (INVITE)	←	200 OK (INVITE)	
ACK	→	ACK	
		Apply post test routine	

History

Document history		
V2.1.1	July 2009	Publication