

ETSI TS 186 010-2 V2.1.1 (2009-07)

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)

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Reference

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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.

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 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.

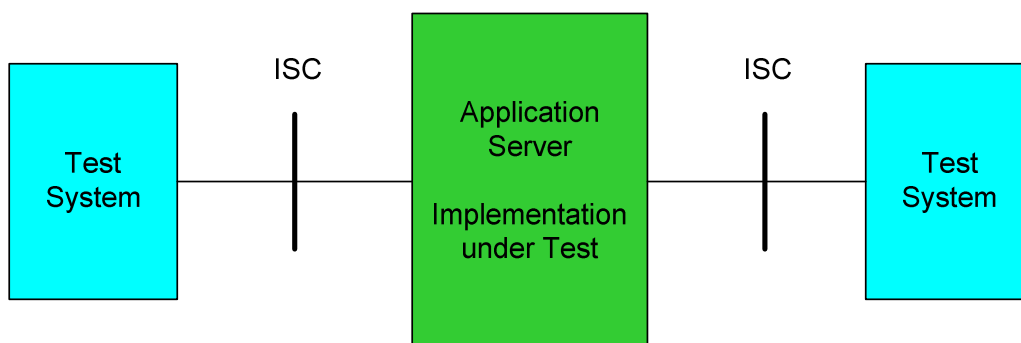


Figure 1: Applicable interface to test AS functionalities

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.

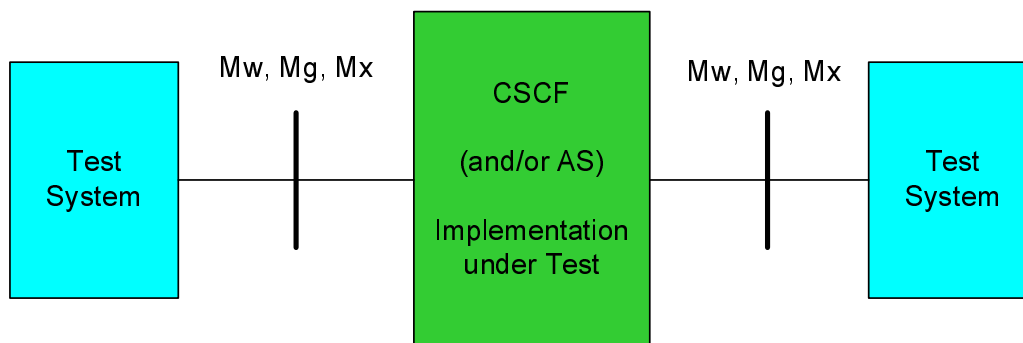


Figure 2: Applicable interfaces to test using the (generic) NNI interface

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: ISC#1 → Focus INVITE → 200 OK (INVITE) ← ACK → SUBSCRIBE → 200 OK (SUBSCRIBE) ← NOTIFY ← 200 OK NOTIFY → Apply post test routine</p> | | | |

| 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: ISC#1 → Focus INVITE → 200 OK (INVITE) ← ACK → Apply post test routine</p> | | | |

| TSS | TP | Reference | Selection expression |
|---|--------------|--------------|----------------------|
| ConferenceFocus | CONF_N01_003 | 5.3.2.3/[3] | PICS 1/5 |
| Test purpose <i>Conference creation with a conference URI. Conference event package subscribed.</i> | | | |
| <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> | | | |
| 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 | | | |
| 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_N01_004 | 5.3.2.3/[3] | PICS 1/5 |
| Test purpose <i>Conference creation with a conference URI. Conference event package not subscribed.</i> | | | |
| <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> | | | |
| 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 | | | |
| Comments: | | | |
| ISC#1 | | | |
| | | Focus | |
| INVITE | → | | |
| 200 OK (INVITE) | ← | | |
| ACK | → | | |
| Apply post test routine | | | |

| 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 border="0"> <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 border="0"> <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 | → | → REFER | |
| 202 Accepted | ← | ← 202 Accepted | |
| NOTIFY (100) | ← | ← NOTIFY (100) | |
| 200 OK (NOTIFY) | → | → 200 OK (NOTIFY) | |
| | INVITE | ← INVITE 2 | |
| | 18x | → 18x | |
| | 200 OK INVITE | → 200 OK INVITE | |
| | ACK | ← ACK | |
| NOTIFY (200) | ← | ← NOTIFY (200) | |
| 200 OK (NOTIFY) | → | → 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 | ← INVITE 2 | |
| | 4xx | → 4xx | |
| | ACK | ← 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Test purpose Inviting participant by sending REFER to the focus.</p> <p>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.</p> <p>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</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Comments:</p> <table border="0"> <thead> <tr> <th>ISC#1</th> <th>Focus</th> <th>ISC#2</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="2" style="text-align: center;">Conference creation</td> </tr> <tr> <td>INVITE</td> <td>→ INVITE</td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td>← 200 OK (INVITE)</td> <td></td> </tr> <tr> <td>ACK</td> <td>→ ACK</td> <td></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">ISC#1 invites ISC#2 to the conference</td> </tr> <tr> <td>REFER</td> <td>→ REFER</td> <td></td> </tr> <tr> <td>202 Accepted</td> <td>← 202 Accepted</td> <td></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">Focus dials out to invite ISC#2</td> </tr> <tr> <td></td> <td>INVITE 2</td> <td>→ INVITE</td> </tr> <tr> <td>NOTIFY</td> <td>← NOTIFY 1</td> <td></td> </tr> <tr> <td>200 OK NOTIFY</td> <td>→ 200 OK NOTIFY</td> <td></td> </tr> <tr> <td></td> <td>180 Ringing</td> <td>← 180 Ringing</td> </tr> <tr> <td></td> <td>200 OK INVITE</td> <td>← 200 OK INVITE</td> </tr> <tr> <td></td> <td>ACK</td> <td>→ ACK</td> </tr> <tr> <td>NOTIFY</td> <td>← NOTIFY 2</td> <td></td> </tr> <tr> <td>200 OK NOTIFY</td> <td>→ 200 OK NOTIFY</td> <td></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">Apply post test routine</td> </tr> </tbody> </table> | | | | 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 | | | Focus dials out to invite ISC#2 | | | INVITE 2 | → 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 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Focus dials out to invite ISC#2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | INVITE 2 | → 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |