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*Technical Specification*

**Telecommunications and Internet Converged Services and  
Protocols for Advanced Networking (TISPAN);  
Network Integration Testing between SIP and  
ISDN/PSTN network signalling protocols;  
Part 3: Test Suite Structure and Test Purposes (TSS&TP)  
for SIP-SIP**

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Reference

DTS/TISPAN-06012-3-NGN-1

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Keywords

ISDN, SIP, IP, TSS&TP

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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 3 of a multi-part deliverable covering Network Integration Testing between SIP and ISDN/PSTN network signalling protocols, as identified below:

- Part 1: "Test Suite Structure and Test Purposes (TSS&TP) specification for SIP-ISDN";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP) ATS and PIXIT";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) for SIP-SIP".**

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# 1 Scope

This document specifies the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing (NIT) to verify the overall compatibility of SIP networks. For SIP and SDP specific terminology, reference shall be made to ES 283 003 [1] and RFC 3261 [2] respectively".

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# 2 References

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

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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 ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 [Release 7], modified]".
- [2] IETF RFC 3261 (2002): "SIP: Session Initiation Protocol".
- [3] Void.
- [4] Void.
- [5] ISO/IEC 9646-1 (1994): "Conformance testing methodology and framework - Part 1: General Concepts".
- [6] ISO/IEC 9646-2 (1994): "Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".
- [7] ISO/IEC 9646-3 (1992): "Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation".

- [8] ISO/IEC 9646-3/DAM 1 (1992): "Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation; Amendment 1: TTCN extensions".
- [9] ISO/IEC 9646-5 (1994): "Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [10] ISO/IEC 9646-7 (1994): "Conformance testing methodology and framework - Part 7: Implementation Conformance Statement etworking (TISPAN); PSTN/ISDN simulation services: Conference (CONF); Protocol specification".
- [11] ETSI TS 124 229: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229)".
- [12] ETSI TS 134 229-1: "Universal Mobile Telecommunications System (UMTS); Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification (3GPP TS 34.229-1)".
- [13] Void.
- [14] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [15] ETSI EN 383 001: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control (BICC) Protocol or ISDN User Part (ISUP) [ITU-T Recommendation Q.1912.5, modified]".
- [16] ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]".
- [17] ETSI TS 183 004: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Communication Diversion (CDIV); Protocol specification".
- [18] ETSI TS 183 028: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Common Basic Communication procedures; Protocol specification".
- [19] ETSI TS 183 007: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) PSTN/ISDN Simulation Services".
- [20] ETSI TS 183 005: "Telecommunications and Internet converged Services and Protocols for Advanced IETF RFC 3204 (2001), MIME media types for ISDN and QSIG Objects".
- [21] ETSI TS 183 010: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Signalling Control Protocol; Communication HOLD (HOLD); PSTN/ISDN simulation services".

## 2.2 Informative references

- [22] IETF RFC 2327 (1998): "SDP: Session Description Protocol".
- [23] IETF RFC 3312 (2002): "Integration of Resource Management and Session Initiation Protocol (SIP)".
- [24] IETF RFC 3311 (2002): "The Session Initiation Protocol UPDATE Method".

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

For SIP and SDP specific terminology, reference shall be made to RFC 3261 [2] and RFC 2327 [22] respectively.

**SIP precondition:** Indicates the support of the SIP "precondition procedure" as defined in RFC 3312 [23].

**Inopportune:** specifies a test purpose covering a signalling procedure where an inopportune message (type of message not expected in the IUT current state) is sent to the IUT

**syntactically invalid:** specifies a test purpose covering a signalling procedure where a valid (expected in the current status of the IUT) but not correctly encoded (unknown or incorrect parameter values) message is sent to the IUT, wSIch shall react correctly and eventually reject the message

**test purpose:** non-formal test description, mainly using text

NOTE: TSIs test description can be used as the basis for a formal test specification (e.g. Abstract Test Suite in TTCN). See ISO 9646 (all parts) [5] to [10].

**valid:** specifies a test purpose covering a signalling procedure where all the messages sent to or received from the IUT are valid (expected in the current status of the IUT) and correctly encoded

### 3.2 Conventions for representation of SIP/SDP information

- 1) All letters of SIP method names are capitalised.

EXAMPLE 1: INVITE, INFO.

- 2) SIP header fields are identified by the unabbreviated header field name as defined in the relevant RFC, including capitalization and enclosed hyphens but excluding the following colon.

EXAMPLE 2: To, From, Call-ID.

- 3) Where it is necessary to refer with finer granularity to components of a SIP message, the component concerned is identified by the ABNF rule name used to designate it in the defining RFC (generally 25/RFC 3261 [2]), in plain text without surrounding angle brackets.

EXAMPLE 3: Request-URI, the userinfo portion of a sip: URI.

- 4) URI types are represented by the lower-case type identifier followed by a colon and the abbreviation "URI".

EXAMPLE 4: sip: URI, tel: URI.

- 5) SIP provisional responses and final responses other than 2XX are represented by the status code followed by the normal reason phrase for that status code, with initial letters capitalized.

EXAMPLE 5: 100 Trying, 484 Address Incomplete.

- 6) Because of potential ambiguity within a call flow about which request a 200 OK final response answers, 200 OK is always followed by the method name of the request.

EXAMPLE 6: 200 OK INVITE, 200 OK PRACK.

- 7) A particular line of an SDP session description is identified by the two initial characters of the line -- that is, the line type character followed by "="

EXAMPLE 7: m=line, a=line.

- 8) Where it is necessary to refer with finer granularity to components of a session description, the component concerned is identified by its rule name in the ABNF description of the SDP line concerned, delimited with angle brackets.

EXAMPLE 8: The <media> and <fmt> components of the m= line.

### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

GW	GateWay
I	Inopportune
IUT	Implementation Under Test
MCU	Multipoint Control Unit
MGCF	Media Gateway Control Function
MSI	Manufacturer Specific Information
PDU	Protocol Data Unit
PER	Packed Encoding Rules
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PSA	PSase A : Call setup signalling procedures
PSE	PSase E : Call termination signalling procedures
RAS	Registration, Admission and Status
RCF	Register Confirm
REG	REGistration
RRJ	Register Reject
RRQ	Register Request
S	Syntactically invalid
STA	STAtus
TE	Terminal
TP	Test Purpose
TSS	Test Suite Structure
UCF	Unregistration ConFirm
UE	User Equipment
URJ	Unregistration ReJect
URQ	Unregistration ReQuest
V	Valid



## 4 Test Suite Structure (TSS)

### 4.1 SIP-SIP

C – Plane / U – Plane	Successful		
Basic_Call		SS	XX_xx
		Codec negotiation	SS_CN_xx
		UPDATE	SS_XX_UP_xx
		Unsuccessful	SS_XX_Uxx
Supplementary Services		OIP/OIR	SS_XXSS_OIPxx
			SS_XXSS_OIRxx
		TIP/TIR	SS_XXSS_TIPxx
		HOLD	SS_XXSS_CHxx
		CFU	SS_XXSS_CFUxx
		CFB	SS_XXSS_CFBxx
		CFNR	SS_XXSS_CFNRxx
		CFNL	SS_XXSS_CFNLxx
		CONF	SS_XXSS_CONFxx

## 5 Numbering Scheme

### 5.1 General description

- Pos. 1: Network of the A-Subscriber
- Pos. 2: Network of the B-Subscriber
- Pos. 3: Network of the C-Subscriber
- Pos. 4: Network of the D-Subscriber
- Pos. 5: Network of the E-Subscriber

The following Network Codes apply:

- \_: No such network used (used e.g. for C-Subscriber in successful A to B Calls)

(underscore makes it easier to read the name)

- P: PSTN
- I: ISDN
- S: SIP

(Extensions will be added when needed)

- Pos. 6 and 7: Bearer- or Teleservice involved
- XX: Defined per PIXIT value

NOTE: TSIs may be appropriate for Test Purposes (provided the Test Purpose states for wSIch Bearer- and/or Tele Services it should be tested). It is however NOT appropriate for Test Cases since it would be detrimental to Test Automation.

- SP: Speech

AU:	3,1 kHz Audio
UD:	UDI
UT:	UDI/TA
CN:	Codec negotiation
DT:	DTMF
UP:	UPDATE Method
Pos. 8&9:	
_:	No Supplementary Services Involved / Successful
_U:	No Supplementary Services Involved / Unsuccessful
SS:	Supplementary Services Involved
SI:	Supplementary Services interaction
SN:	Nonsymmetrical Supplementary Services Involved
ST:	Supplementary Services transparent

## 5.2 Basic Call

Speech	IS__XX__XX
--------	------------

1	2	3	4	5	6	7	8	9	10	11
I	S	-	-	-	S	P	-	-	x	x

## 5.3 Supplementary Services

CLIP	IS__XXSSCLIP XX
------	-----------------

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	S	-	-	-	X	X	S	S	C	L	I	P	x	X

---

## 6 Test purposes

The registration and application usage procedures in the ATS shall be compliant to RFC 3261 [2] and ES 283 003 [1] (modified TS 124 229 [11]). The validation of the registration procedure is out of scope of the present document and is part of the Preamble used in the test cases.

The registration conformance tests based on TS 124 229 [11] are contained in TS 134 229-1 [12]

The preconditions mechanism shall be supported by the UE in case of supporting IMS.

The handling of preconditions at the originating or /and terminating UE (MGCF in case if interworking) is described in the following table.

PIXIT Values			
	UE (MGCF) originating case	UE (MGCF) terminating case	
VA	"precondition" option-tag in the Supported header	local resource reservation is <b>required</b> at the terminating UE	local resource reservation is <b>not required</b> by the terminating UE and the terminating UE supports the precondition mechanism
VA_1	"precondition" option-tag in the Supported header	the terminating UE shall make use of the precondition mechanism	
VA_2.1	"precondition" option-tag in the Supported headerd and required resources at the originating network are <b>not</b> reserved	the terminating UE shall make use of the precondition mechanism	
VA_2.2	"precondition" option-tag in the Supported headerd and required resources at the originating network are <b>not</b> reserved		the terminating UE shall use the precondition mechanism
VA_3.1	"precondition" option-tag in the Supported header and required local resources at the originating network	the terminating UE <b>shall</b> make use of the precondition mechanism	
VA_3.2	"precondition" option-tag in the Supported header and required local resources at the originating network		the required local resources at the originating UE and the terminating UE are available, the terminating UE may use the precondition mechanism
VA_4.1	INVITE request does not include the "precondition" option-tag in the Supported header	the terminating UE shall not make use of the precondition mechanism.	
VA_4.2	INVITE request does not include the "precondition" option-tag in the Supported header		the terminating UE shall not make use of the precondition mechanism.

#### Dial string parameters options

	To header field- UE originated
VA_5.1	sip: dialled digits@homehostportion;user=dialstring
VA_5.2	sip: dialled digits@homehostportion;user=phone
VA_5.3	sip: dialed digits; phone-context=<"+"CC>@homehostportion;user=phone
VA_5.3	sip: dialed digits; phone-context=<"+"CC+NDC>@homehostportion;user=phone

	Request-URI
VA_6.1	E164 Address (format "+"CC+NDC+SN) (e.g. as User info in SIP URI with user= phone, or as tel URI)

6.1 Void

6.2 Void

6.3 Void

6.4 Void

## 6.5 Test purposes for SIP-SIP

## 6.5.1 Test purposes for SIP-SIP, Basic call, Successful

SS__XX__01	NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]																																																																																																																														
TSS reference:	SIP-SIP/Basic_call/Successful.																																																																																																																														
Selection criteria:																																																																																																																															
Test purpose:	Ensure that call establishment and the correct handling and mapping of the SDP parameters of the INVITE message defined as : TYPE_SDP is performed correctly. Ensure that in the active call state the voice/data transfer on the media channels is performed correctly (e.g. testing QoS parameters). In case when the parameter in the SDP rtpmap:<dynamic-PT> is used the codecs in table 1 applies. The call is released from the <b>called</b> user.																																																																																																																														
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																																																																																																														
Comments:	<p>A) SDP pre-condition not requested</p> <table border="0"> <thead> <tr> <th style="text-align: center;">SIP</th> <th style="text-align: center;">→</th> <th style="text-align: center;">SUT</th> <th style="text-align: center;">→</th> <th style="text-align: center;">SIP</th> </tr> </thead> <tbody> <tr><td>INVITE</td><td>→</td><td></td><td>→</td><td>INVITE</td></tr> <tr><td>100 Trying</td><td>←</td><td></td><td></td><td></td></tr> <tr><td>180 Ringing</td><td>←</td><td></td><td>←</td><td>180 Ringing</td></tr> <tr><td>200 OK INVITE</td><td>←</td><td></td><td>←</td><td>200 OK INVITE</td></tr> <tr><td>ACK</td><td>→</td><td></td><td>→</td><td>ACK</td></tr> <tr><td>BYE</td><td>←</td><td></td><td>←</td><td>BYE</td></tr> <tr><td>200 OK BYE</td><td>→</td><td></td><td>→</td><td>200 OK BYE</td></tr> </tbody> </table> <p>C) pre-condition and 100 rel</p> <table border="0"> <tbody> <tr><td>INVITE</td><td>→</td><td></td><td>→</td><td>INVITE</td></tr> <tr><td>100 Trying</td><td>←</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>←</td><td>183 Session Progress SDP</td></tr> <tr><td></td><td></td><td></td><td></td><td style="text-align: center;">Authorize QoS resource at P-SCCF</td></tr> <tr><td>183 Session Progress SDP</td><td>←</td><td></td><td></td><td></td></tr> <tr><td>PRACK</td><td>→</td><td></td><td>→</td><td>PRACK</td></tr> <tr><td></td><td></td><td></td><td></td><td style="text-align: center;">Resource Reservation at UE1</td></tr> <tr><td>200 OK PRACK</td><td>←</td><td></td><td>←</td><td>200 OK PRACK</td></tr> <tr><td>UPDATE</td><td>→</td><td></td><td>→</td><td>UPDATE</td></tr> <tr><td>200 OK UPDATE</td><td>←</td><td></td><td>←</td><td>200 OK UPDATE</td></tr> <tr><td>180 Ringing</td><td>←</td><td></td><td>←</td><td>180 Ringing</td></tr> <tr><td>PRACK</td><td>→</td><td></td><td>→</td><td>PRACK</td></tr> <tr><td>200 OK PRACK</td><td>←</td><td></td><td>←</td><td>200 OK PRACK</td></tr> <tr><td>200 OK INVITE</td><td>←</td><td></td><td>←</td><td>200 OK INVITE</td></tr> <tr><td>ACK</td><td>→</td><td></td><td>→</td><td>ACK</td></tr> <tr><td>BYE</td><td>←</td><td></td><td>←</td><td>BYE</td></tr> <tr><td>200 OK BYE</td><td>→</td><td></td><td>→</td><td>200 OK BYE</td></tr> </tbody> </table>		SIP	→	SUT	→	SIP	INVITE	→		→	INVITE	100 Trying	←				180 Ringing	←		←	180 Ringing	200 OK INVITE	←		←	200 OK INVITE	ACK	→		→	ACK	BYE	←		←	BYE	200 OK BYE	→		→	200 OK BYE	INVITE	→		→	INVITE	100 Trying	←							←	183 Session Progress SDP					Authorize QoS resource at P-SCCF	183 Session Progress SDP	←				PRACK	→		→	PRACK					Resource Reservation at UE1	200 OK PRACK	←		←	200 OK PRACK	UPDATE	→		→	UPDATE	200 OK UPDATE	←		←	200 OK UPDATE	180 Ringing	←		←	180 Ringing	PRACK	→		→	PRACK	200 OK PRACK	←		←	200 OK PRACK	200 OK INVITE	←		←	200 OK INVITE	ACK	→		→	ACK	BYE	←		←	BYE	200 OK BYE	→		→	200 OK BYE
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<b>SS__XX_03</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Successful.	
Selection criteria:		
Test purpose:	Ensure that call establishment and the correct if the called user answers with a 180 Ringing message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).  In case when the parameter in the SDP rtpmap:<dynamic-PT> is used the codecs in table 2 applies.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition	

<b>SS XX 03</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>	
Comments:		
	A) SDP pre-condition not requested	
	<b>SIP</b>	<b>SUT</b>
	INVITE →	→ INVITE
	100 Trying ←	
	180 Ringing ←	← 180 Ringing
	200 OK INVITE ←	← 200 OK INVITE
	ACK →	→ ACK
	BYE ←	← BYE
	200 OK BYE →	→ 200 OK BYE

<b>SS XX 04</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Successful.	
Selection criteria:		
Test purpose:	Ensure that call establishment and the correctly if the called user answers with with a 200 OK message. In case when the parameter in the SDP rtpmap:<dynamic-PT> is used the codecs in table 2 applies.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
	A) SDP pre-condition not requested	
	<b>SIP</b>	<b>SUT</b>
	INVITE →	→ INVITE
	100 Trying ←	
	200 OK INVITE ←	← 200 OK INVITE
	ACK →	→ ACK
	BYE ←	← BYE
	200 OK BYE →	→ 200 OK BYE

**Table 1: Values for the test purpose SS XX 01 to SS XX 04**

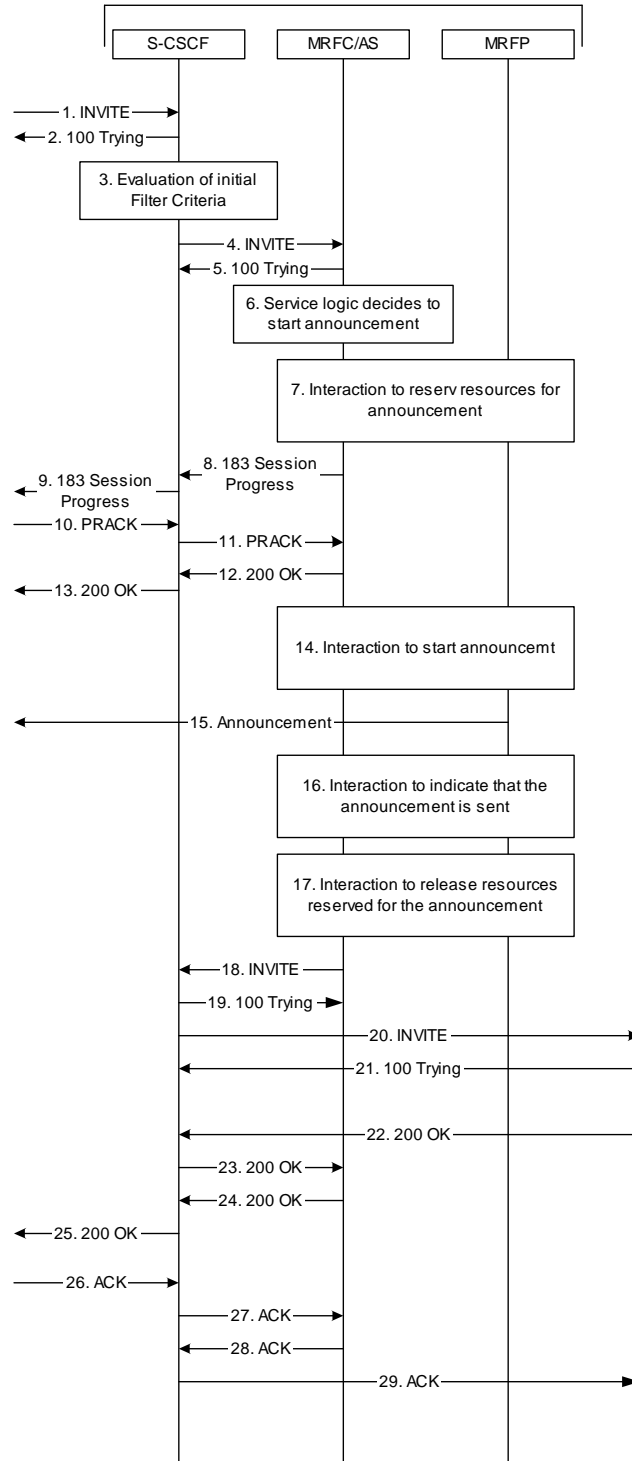
VA	m= line			b= line	a= line
	<media>	<transport>	<fmt-list>	<modifier>:<bandwidth-value>	rtpmap:<dynamic-PT> <encoding name>/<clock rate>/<encoding parameters>
				NOTE: <bandwidth value> for <modifier> of AS is evaluated to be B kbit/s.	
VA_01	Audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A
VA_02	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap:<dynamic-PT> PCMU/8000
VA_03	Audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A
VA_04	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap:<dynamic-PT> PCMA/8000
VA_05	Image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38
VA_06	Image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38

Table 2: Values for test purposes SS\_\_XX\_\_01 and SS\_\_XX\_\_04

VARIABLE	PT	Encoding	media type	clock rate	channels
VA_01	0	PCMU	A	8,000	1
VA_02	3	GSM	A	8,000	1
VA_03	4	G723	A	8,000	1
VA_04	5	DVI4	A	8,000	1
VA_05	6	DVI4	A	16,000	1
VA_06	7	LPC	A	8,000	1
VA_07	8	PCMA	A	8,000	1
VA_08	9	G722	A	8,000	1
VA_09	10	L16	A	44,100	2
VA_10	11	L16	A	44,100	1
VA_13	12	QCELP	A	8,000	1
VA_12	13	CN	A	8,000	1
VA_13	14	MPA	A	90,000	
VA_14	15	G728	A	18,000	1
VA_15	16	DVI4	A	11,025	1
VA_16	17	DVI4	A	22,050	1
VA_17	18	G729	A	8,000	1
VA_18	Dyn	G726-40	A	8,000	1
VA_19	Dyn	G726-32	A	8,000	1
VA_20	Dyn	G726-24	A	8,000	1
VA_21	Dyn	G726-16	A	8,000	1
VA_22	Dyn	G729D	A	8,000	1
VA_23	Dyn	G729E	A	8,000	1
VA_24	Dyn	GSM-EFR	A	8,000	1
VA_25	25	CelB	V	90,000	
VA_26	26	JPEG	V	90,000	
VA_27	28	Nv	V	90,000	
VA_28	31	H261	V	90,000	
VA_29	32	MPV	V	90,000	
VA_30	33	MP2T	V	90,000	
VA_31	34	H263	V	90,000	
VA_32	Dyn	H263-1998	V	90,000	

<b>SS__XX__05</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Successful	
Selection criteria:		
Test purpose:	<p>Ensure that an AS can send an announcement to the calling user during the establishment of a communication.</p> <p>The AS serving the calling party apply for example when a communication is going to be diverted and the AS serving the diverting user inform the calling party that the communication is going to be diverted.</p>	
SIP Parameter values:	<p><b>Dial string parameters options=PIXIT</b> TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p>	

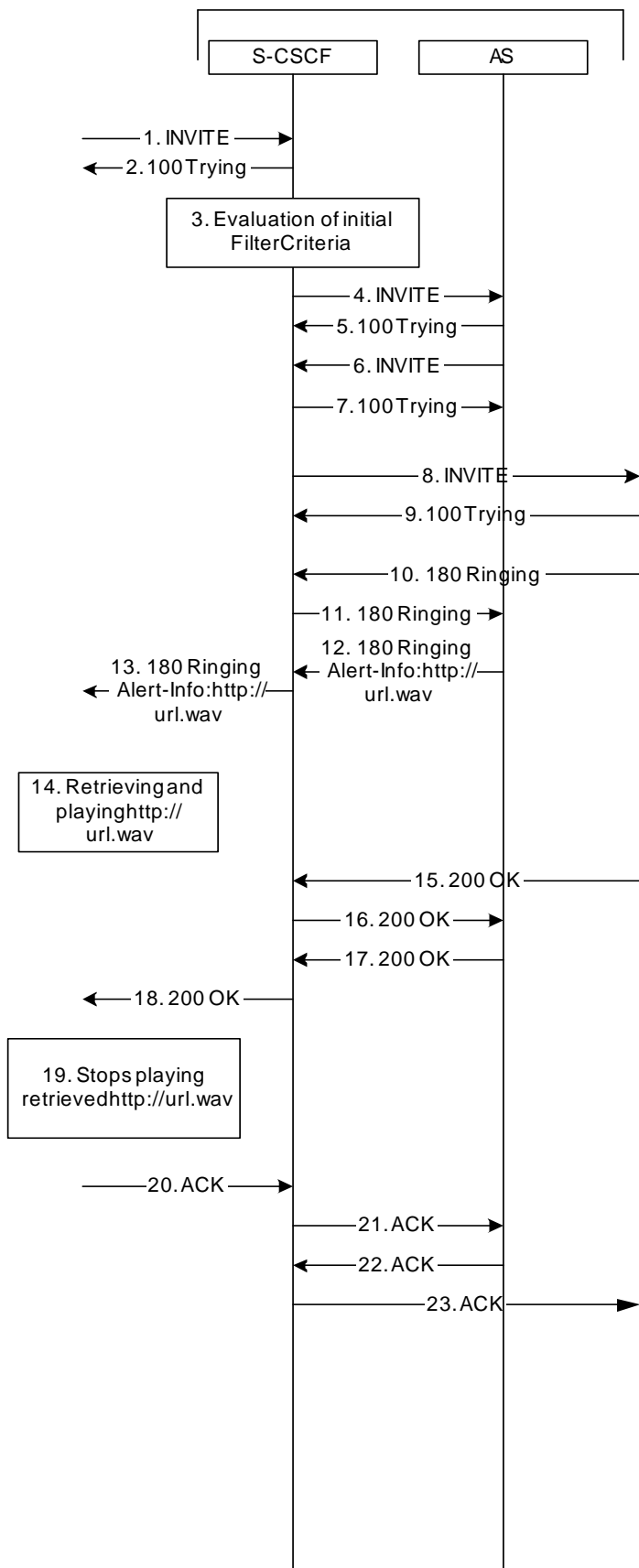
Comments:





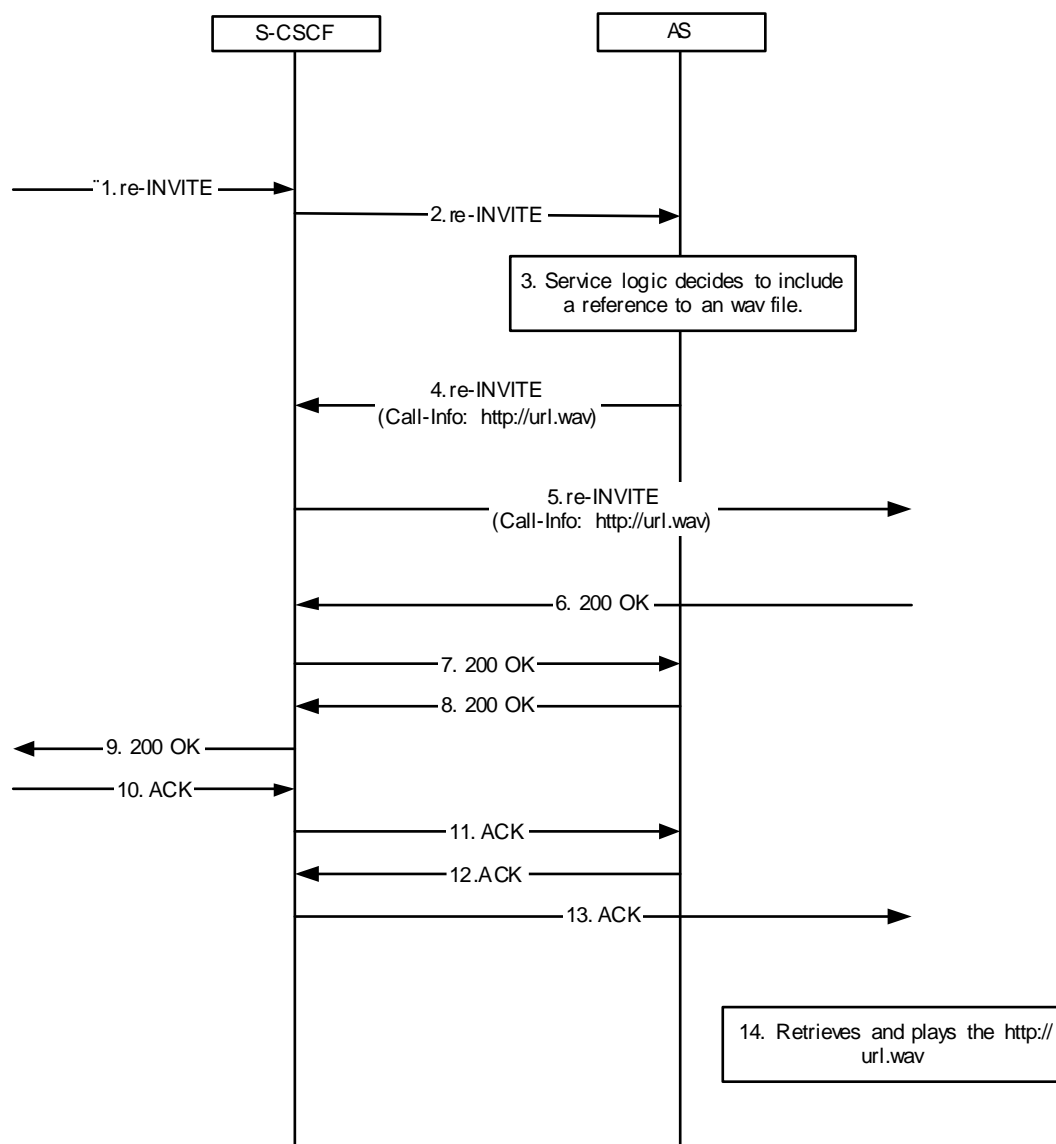
<b>SS__XX_06</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Successful	
Selection criteria:	Including Alert-Info header field in the 180 (Ringing) response.	
Test purpose:	Ensure that according RFC 3261 [2] an Alert-Info header field, to indicate a source of media to play an alternative ring tone by an originating endpoint can be used.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	

Comments:



SS __XX__ 07	NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] TS 183 028 [18]
TSS reference:	SIP-SIP/Basic_call/Successful.
Selection criteria:	Providing announcements to a user during an established communication.
Test purpose:	Two users are communicating with (at least) one AS in the signalling path. Ensure that a user can place a communication session on hold and sends a re-INVITE request towards the remote user involved in the communication. The <i>Call-Info</i> header field in a re-INVITE request to indicate media.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:



## 6.5.1.1 Codec negotiation

<b>SS__CN__01</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] RFC 3311 [24]</b>																																																																																					
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BYE	←	← BYE																																																																											
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<b>SS__CN__05</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>RFC 3311 [24]</b>	
TSS reference:	SIP-SIP/Basic_call/Codec negotiation.	
Selection criteria:		
Test purpose:	<p>Ensure that mobile originated while in home network, establishing a session with another user. After the multimedia session is established, it is possible for either endpoint to change the set of media flows or codec for a media flow.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	





<b>SS__CN__06</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>RFC 3311 [24]</b>		
TSS reference:	SIP-SIP/Basic_call/Codec negotiation.		
Selection criteria:			
Test purpose:	<p>Ensure that the call establishment performed correctly.</p> <ul style="list-style-type: none"> <li>The initial INVITE contains a SDP with the offer 1.</li> </ul> <p>Ensure that answer related to the SDP offer is contained in the 200 OK INVITE message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p>		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	A) SDP pre-condition not requested		
	SIP	SUT	SIP
	INVITE offer 1 → 100 Trying ← 183 Session Progress ← 180 Ringing ← 200 OK INVITE <b>answer 1</b> ← ACK → BYE ← 200 OK BYE →		→ INVITE offer 1 ← 183 Session Progress ← 180 Ringing ← 200 OK INVITE <b>answer 1</b> → ACK ← BYE → 200 OK BYE
C) pre-condition and 100 rel			
INVITE → 100 Trying ←		→ INVITE ← 183 Session Progress SDP	
Authorize QoS resource at P-SCCF			
183 Session Progress ←			
SDP			
PRACK →			
Resource Reservation at UE1			
200 OK PRACK ←			
180 Ringing ←			
200 OK INVITE <b>answer 1</b> ←			
ACK →			
BYE ←			
200 OK BYE →			
		→ PRACK ← 200 OK PRACK ← 180 Ringing ← 200 OK INVITE <b>answer 1</b> → ACK ← BYE → 200 OK BYE	

<b>SS__CN__07</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] RFC 3311 [24]</b>																																																																																																																																			
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Selection criteria:																																																																																																																																				
Test purpose:	<p>Ensure that the call establishment performed correctly.</p> <ul style="list-style-type: none"> <li>The initial INVITE contains a SDP with the offer 1.</li> <li>The answer related to the SDP offer is contained in the 180 Ringing message. A new offer (codec) is sent in the UPDATE message.</li> <li>Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</li> </ul>																																																																																																																																			
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<b>SS__CN__08</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>RFC 3311 [24]</b>																																																																																																																				
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## 6.5.1.2 UPDATE method

<b>SS__XX_UP_01</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>RFC 3311 [24]</b>																																																																																						
TSS reference:	SIP-SIP/Basic_call/update																																																																																						
Selection criteria:	UPDATE procedure for the caller.																																																																																						
Test purpose:	Ensure that if the UPDATE is being sent before completion of the initial INVITE transaction, and the initial INVITE <b>contained an offer</b> . The UPDATE can contain an offer if the callee generated an answer in a reliable provisional response, and the caller has received answers to any other offers it sent in <b>PRACK</b> and has generated answers for any offers it received in an UPDATE from the callee.																																																																																						
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TSS reference:	SIP-SIP/Basic_call/update	
Selection criteria:	UPDATE procedure for the caller	
Test purpose:	Ensure that if the UPDATE is being sent before completion of the initial INVITE transaction, and the initial INVITE <b>did not contain</b> an offer, the UPDATE can contain an offer if the callee generated an offer in a reliable provisional response, and the UAC generated an answer in the corresponding PRACK.	
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TSS reference:	SIP-SIP/Basic_call/Successful																																																																									
Selection criteria:																																																																										
Test purpose:	Ensure that when a UAS receives an INVITE request for a new dialog, and generates a reliable provisional response containing SDP, that response SHOULD contain an Allow header field that lists the UPDATE method. This informs the caller that the callee is capable of receiving an UPDATE request at any time.																																																																									
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Test purpose:	Ensure that a 2XX response SHOULD contain an Allow header field listing the UPDATE method.																																																																															
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																																																															
Comments:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"></th> <th style="text-align: center; width: 10%;"><b>SIP</b></th> <th style="width: 10%;"></th> <th style="text-align: center; width: 10%;"><b>SUT</b></th> <th style="width: 10%;"></th> <th style="text-align: center; width: 10%;"><b>SIP</b></th> </tr> </thead> <tbody> <tr> <td>INVITE SDP1 with allow header</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td>INVITE SDP1 with allow header</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>183 SDP2 with allow header</td> </tr> <tr> <td>183 SDP2 with allow header</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>PRACK SDP 3</td> </tr> <tr> <td>PRACK SDP 3</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td>200 OK PRACK with allow header</td> </tr> <tr> <td>200 OK PRACK with allow header</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>UPDATE SDP 4</td> </tr> <tr> <td>UPDATE SDP 4</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td>200 OK UPDATE</td> </tr> <tr> <td>200 OK UPDATE</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>180 Ringing</td> </tr> <tr> <td>180 Ringing</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>200 OK INVITE</td> </tr> <tr> <td>200 OK INVITE</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>ACK</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td>BYE</td> </tr> <tr> <td>BYE</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td>200 OK BYE</td> </tr> <tr> <td>200 OK BYE</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td></td> </tr> </tbody> </table>			<b>SIP</b>		<b>SUT</b>		<b>SIP</b>	INVITE SDP1 with allow header	→		→		INVITE SDP1 with allow header	100 Trying	←		←		183 SDP2 with allow header	183 SDP2 with allow header	←		←		PRACK SDP 3	PRACK SDP 3	→		→		200 OK PRACK with allow header	200 OK PRACK with allow header	←		←		UPDATE SDP 4	UPDATE SDP 4	→		→		200 OK UPDATE	200 OK UPDATE	←		←		180 Ringing	180 Ringing	←		←		200 OK INVITE	200 OK INVITE	←		←		ACK	ACK	→		→		BYE	BYE	←		←		200 OK BYE	200 OK BYE	→		→		
	<b>SIP</b>		<b>SUT</b>		<b>SIP</b>																																																																											
INVITE SDP1 with allow header	→		→		INVITE SDP1 with allow header																																																																											
100 Trying	←		←		183 SDP2 with allow header																																																																											
183 SDP2 with allow header	←		←		PRACK SDP 3																																																																											
PRACK SDP 3	→		→		200 OK PRACK with allow header																																																																											
200 OK PRACK with allow header	←		←		UPDATE SDP 4																																																																											
UPDATE SDP 4	→		→		200 OK UPDATE																																																																											
200 OK UPDATE	←		←		180 Ringing																																																																											
180 Ringing	←		←		200 OK INVITE																																																																											
200 OK INVITE	←		←		ACK																																																																											
ACK	→		→		BYE																																																																											
BYE	←		←		200 OK BYE																																																																											
200 OK BYE	→		→																																																																													

## 6.5.1.3 Test purposes for SIP-SIP, Basic call, Unsuccessful

## 6.5.1.3.1 Unsuccessful

<b>SS__XX_U01</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																
Selection criteria:																	
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with a 404 Not Found message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table style="width:100%; border:none;"> <thead> <tr> <th style="text-align:center">SIP</th> <th style="text-align:center">SUT</th> <th style="text-align:center">SIP</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align:center">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align:center">←</td> <td></td> </tr> <tr> <td>404 Not Found</td> <td style="text-align:center">←</td> <td>404 Not Found</td> </tr> <tr> <td>ACK</td> <td style="text-align:center">→</td> <td>ACK</td> </tr> </tbody> </table>		SIP	SUT	SIP	INVITE	→	INVITE	100 Trying	←		404 Not Found	←	404 Not Found	ACK	→	ACK
SIP	SUT	SIP															
INVITE	→	INVITE															
100 Trying	←																
404 Not Found	←	404 Not Found															
ACK	→	ACK															

<b>SS__XX_U02</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																
Selection criteria:																	
Test purpose:	Ensure that the call will be released if the Service unavailable. The network initiates call clearing to the calling user with a 503 Service unavailable message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table style="width:100%; border:none;"> <thead> <tr> <th style="text-align:center">SIP</th> <th style="text-align:center">SUT</th> <th style="text-align:center">SIP</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align:center">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align:center">←</td> <td></td> </tr> <tr> <td>503 Service Unavailable</td> <td style="text-align:center">←</td> <td>503 Service Unavailable</td> </tr> <tr> <td>ACK</td> <td style="text-align:center">→</td> <td>ACK</td> </tr> </tbody> </table>		SIP	SUT	SIP	INVITE	→	INVITE	100 Trying	←		503 Service Unavailable	←	503 Service Unavailable	ACK	→	ACK
SIP	SUT	SIP															
INVITE	→	INVITE															
100 Trying	←																
503 Service Unavailable	←	503 Service Unavailable															
ACK	→	ACK															

<b>SS__XX_U03</b>	<b>NGN reference to:</b> <b>RFC 3261 [2] and RFC 2327 [22]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																
Selection criteria:																	
Test purpose:	Ensure that, when the called user is busy the <b>network initiate</b> call clearing to the calling user with a 486 Busy Here message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table style="width:100%; border:none;"> <thead> <tr> <th style="text-align:center">SIP</th> <th style="text-align:center">SUT</th> <th style="text-align:center">SIP</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align:center">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align:center">←</td> <td></td> </tr> <tr> <td>486 Busy Here</td> <td style="text-align:center">←</td> <td>486 Busy Here</td> </tr> <tr> <td>ACK</td> <td style="text-align:center">→</td> <td>ACK</td> </tr> </tbody> </table>		SIP	SUT	SIP	INVITE	→	INVITE	100 Trying	←		486 Busy Here	←	486 Busy Here	ACK	→	ACK
SIP	SUT	SIP															
INVITE	→	INVITE															
100 Trying	←																
486 Busy Here	←	486 Busy Here															
ACK	→	ACK															

<b>SS__XX_U04</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																																																																																		
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																																																																																		
Selection criteria:																																																																																																			
Test purpose:	Ensure that when there is no answer from the called user (there is no response from INVITE messages), the network initiate call clearing to the calling user with a 480 Temporarily unavailable message or 408 request time out.																																																																																																		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																																																																																		
Comments:	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 15%; text-align: center;">UE1</th> <th style="width: 20%;"></th> <th style="width: 15%; text-align: center;">Proxy 1</th> <th style="width: 20%;"></th> <th style="width: 15%; text-align: center;">Proxy 2</th> <th style="width: 15%;"></th> <th style="width: 15%; text-align: center;">UE2</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>100</td> <td style="text-align: center;">←</td> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> <td style="text-align: center;">→</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>100</td> <td style="text-align: center;">←</td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INVITE</td> <td style="text-align: center;">→</td> </tr> <tr> <td>480</td> <td style="text-align: center;">←</td> <td>480</td> <td style="text-align: center;">←</td> <td>480</td> <td style="text-align: center;">←</td> <td></td> <td></td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> <td style="text-align: center;">→</td> <td></td> <td></td> </tr> </tbody> </table>				UE1		Proxy 1		Proxy 2		UE2	INVITE	→							100	←	INVITE	→	INVITE	→					100	←			INVITE	→							INVITE	→							INVITE	→							INVITE	→							INVITE	→							INVITE	→							INVITE	→	480	←	480	←	480	←			ACK	→	ACK	→	ACK	→		
	UE1		Proxy 1		Proxy 2		UE2																																																																																												
INVITE	→																																																																																																		
100	←	INVITE	→	INVITE	→																																																																																														
		100	←			INVITE	→																																																																																												
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						INVITE	→																																																																																												
480	←	480	←	480	←																																																																																														
ACK	→	ACK	→	ACK	→																																																																																														

<b>SS__XX_U05</b>	<b>NGN reference to:</b> <b>draft-ietf-sipping-basic-call-flows-02.txt</b>																																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																
Selection criteria:	A transaction timer regarding the call establishment is implemented at the UAS																																
Test purpose:	Ensure that when there is no answer from the called user, the user initiate call clearing to the calling user with a 480 Temporarily unavailable message (do not disturb service).																																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition																																
Comments:	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">SIP UA A</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">SUT</th> <th style="width: 10%;"></th> <th style="width: 20%; text-align: center;">SIP UA B</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>180 Ringing</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td>180 Ringing</td> </tr> <tr> <td>480 Teporary unavaible</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td>480 Teporary unavaible</td> </tr> <tr> <td>ACK</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </tbody> </table>				SIP UA A		SUT		SIP UA B	INVITE		→		→	INVITE	180 Ringing		←		←	180 Ringing	480 Teporary unavaible		←		←	480 Teporary unavaible	ACK		→		→	ACK
	SIP UA A		SUT		SIP UA B																												
INVITE		→		→	INVITE																												
180 Ringing		←		←	180 Ringing																												
480 Teporary unavaible		←		←	480 Teporary unavaible																												
ACK		→		→	ACK																												

<b>SS__XX_U06</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>		
TSS reference:	SIP-SIP/Basic_call/Unsuccessful		
Selection criteria:			
Test purpose:	Ensure that when the number is changed, the network initiate call clearing to the calling user with a 410 Gone message.		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		



<b>SS__XX_U06</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																										
Comments:	<table border="0"> <tr> <td style="text-align: right;"><b>SIP</b></td> <td style="text-align: center;">→</td> <td style="text-align: center;"><b>SUT</b></td> <td style="text-align: center;">→</td> <td style="text-align: left;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td></td> <td></td> <td></td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> <td></td> </tr> <tr> <td>410m Gone</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td>410 Gone</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>	<b>SIP</b>	→	<b>SUT</b>	→	<b>SIP</b>	INVITE				INVITE	100 Trying	←				410m Gone	←		←	410 Gone	ACK	→		→	ACK	
<b>SIP</b>	→	<b>SUT</b>	→	<b>SIP</b>																							
INVITE				INVITE																							
100 Trying	←																										
410m Gone	←		←	410 Gone																							
ACK	→		→	ACK																							

<b>SS__XX_U07</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 / ES 283 003 [1]</b>																										
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																										
Selection criteria:																											
Test purpose:	Ensure that when the destination is out of order, the network initiate call clearing to the calling user with a 502 Bad Gateway message.																										
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																										
Comments:	<table border="0"> <tr> <td style="text-align: right;"><b>SIP</b></td> <td style="text-align: center;">→</td> <td style="text-align: center;"><b>SUT</b></td> <td style="text-align: center;">→</td> <td style="text-align: left;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td></td> <td></td> <td></td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> <td></td> </tr> <tr> <td>502 Bad Gateway</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td>502 Bad Gateway</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>	<b>SIP</b>	→	<b>SUT</b>	→	<b>SIP</b>	INVITE				INVITE	100 Trying	←				502 Bad Gateway	←		←	502 Bad Gateway	ACK	→		→	ACK	
<b>SIP</b>	→	<b>SUT</b>	→	<b>SIP</b>																							
INVITE				INVITE																							
100 Trying	←																										
502 Bad Gateway	←		←	502 Bad Gateway																							
ACK	→		→	ACK																							

<b>SS__XX_U08</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																										
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																										
Selection criteria:																											
Test purpose:	Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user with 484 Address Incomplete message.																										
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																										
Comments:	<table border="0"> <tr> <td style="text-align: right;"><b>SIP</b></td> <td style="text-align: center;">→</td> <td style="text-align: center;"><b>SUT</b></td> <td style="text-align: center;">→</td> <td style="text-align: left;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td></td> <td></td> <td></td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> <td></td> <td></td> </tr> <tr> <td>484 Address Incomplete</td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td>484 Address Incomplete</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>	<b>SIP</b>	→	<b>SUT</b>	→	<b>SIP</b>	INVITE				INVITE	100 Trying	←				484 Address Incomplete	←		←	484 Address Incomplete	ACK	→		→	ACK	
<b>SIP</b>	→	<b>SUT</b>	→	<b>SIP</b>																							
INVITE				INVITE																							
100 Trying	←																										
484 Address Incomplete	←		←	484 Address Incomplete																							
ACK	→		→	ACK																							

<b>SS__XX_U09</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the called user is not compatible the network initiates call clearing to the calling user with a 503 Service unavailable message.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	

<b>SS__XX_U09</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>	
Comments:	<p><b>SIP</b></p> INVITE →	<p><b>SUT</b></p> → INVITE
	100 Trying ←	← 503 Service unavailable
	503 Service unavailable ←	→ ACK
	ACK →	

<b>SS__XX_U10</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the calling user clears the call with a CANCEL message before answer from called user, the network transport the CANCEL message to the called user.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	Case a)	
	<b>UE1</b>	<b>Proxy 1</b> <b>Proxy 2</b> <b>UE2</b>
	INVITE →	INVITE →                      INVITE →                      INVITE →
	100 ←	100 ←
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
	CANCEL →	CANCEL →                      CANCEL →                      CANCEL →
		Case b)
	INVITE →	INVITE →                      INVITE →
	100 ←	100 ←
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
	CANCEL →	CANCEL →                      CANCEL →                      CANCEL →
		Case c)
	INVITE →	INVITE →                      INVITE →
	100 ←	100 ←
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
		INVITE →
	CANCEL →	CANCEL →                      CANCEL →                      CANCEL →
		200 OK ←
		CANCEL →

<b>SS__XX_U11</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																																																		
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																																																		
Selection criteria:																																																																			
Test purpose:	<p>During the session, the <b>calling user</b> decide to change the characteristics of the media session. This is accomplished by sending a re-INVITE containing a new media description. This re- INVITE references the existing dialog so that the other party knows that it is to modify an existing session instead of establishing a new session.</p> <p>Ensutre that if the other party does not accept the change, he sends an error response such as 488 (Not Acceptable Here), which also receives an ACK.</p>																																																																		
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<b>SS__XX_U12</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																																																		
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																																																		
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BYE	←		←	BYE																																																															
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<b>SS__XX_U13</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																														
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																														
Selection criteria:																																															
Test purpose:	<ul style="list-style-type: none"> <li>Ensure that answer related to the SDP offer is contained in the 180 Ringing message. The media stream is rejected (port number is set to zero).</li> <li>Ensure that the call is rejected by sending a CANCEL or BYE.</li> </ul>																																														
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487 Request Terminated	←	← 487 Request Terminated																																													
ACK	→	→ ACK																																													

<b>SS__XX_U14</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																											
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																											
Selection criteria:																																												
Test purpose:	<ul style="list-style-type: none"> <li>Ensure that answer related to the SDP offer is contained in the 183 Session Progress message. The media stream is rejected (port number is set to zero).</li> <li>Ensure that the call is rejected by sending a CANCEL or BYE.</li> </ul>																																											
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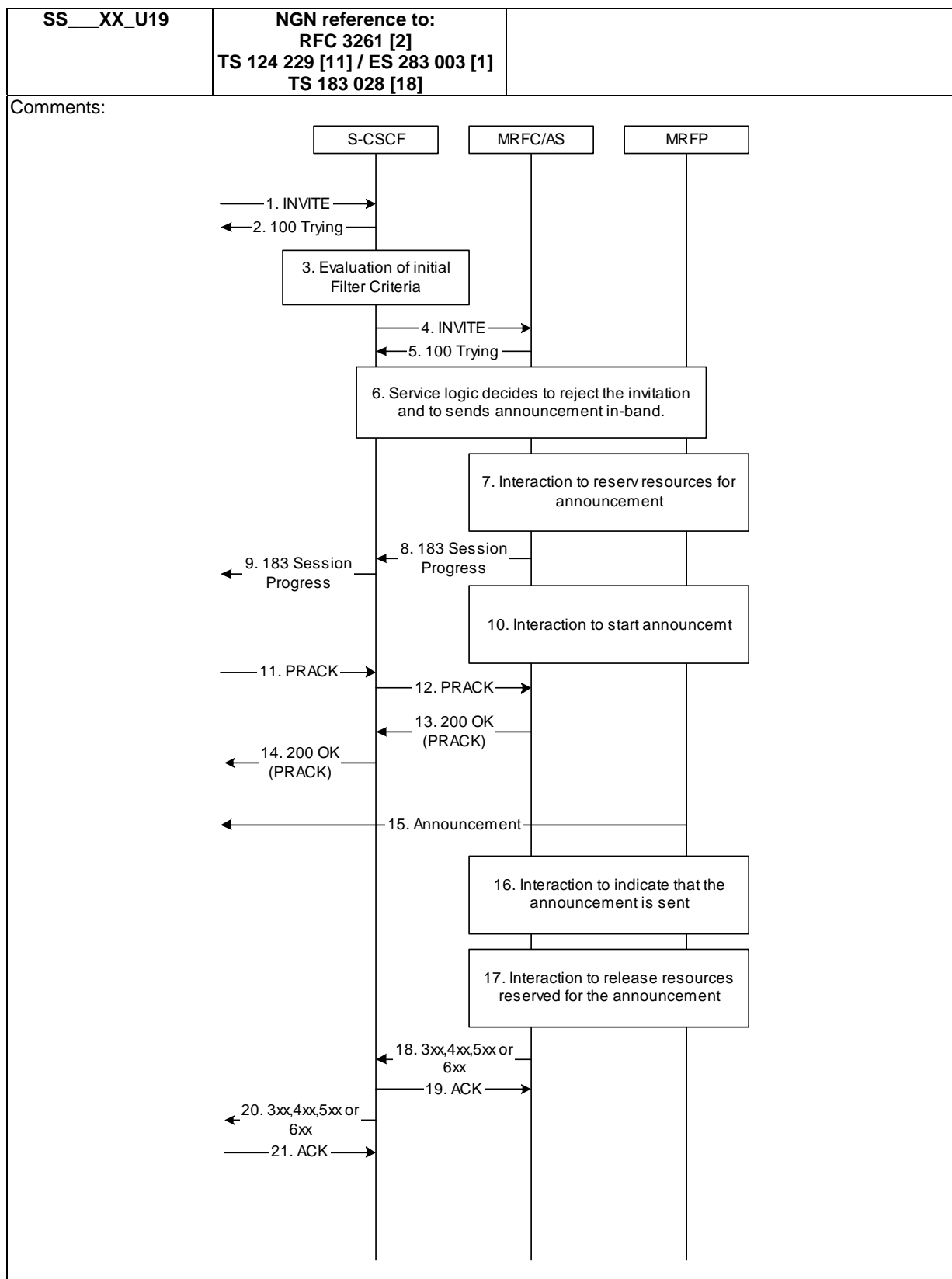
<b>SS__XX_U15</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																													
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																													
Selection criteria:																														
Test purpose:	<ul style="list-style-type: none"> <li>Ensure that answer related to the SDP offer is contained in the 200 OK INVITE message. The media stream is rejected (port number is set to zero).</li> <li>Ensure that the call is rejected by sending a BYE.</li> </ul>																													
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																													
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<b>SS__XX_U16</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																																	
Selection criteria:																																		
Test purpose:	Ensure that when there is no answer from the called user (" <i>no user responding</i> "), the calling user initiate call clearing to the calling user with CANCEL or BYE.																																	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																	
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487 Request Terminated		←	← 487 Request Terminated																															
ACK		→	→ ACK																															

<b>SS__XX_U17</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that upon receiving a 421 (Extension Required) response to an initial INVITE request in which the precondition mechanism was not used, including the "precondition" option tag in the Require header, the originating UE shall send a new INVITE request using the precondition mechanism, if the originating UE supports the precondition mechanism.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

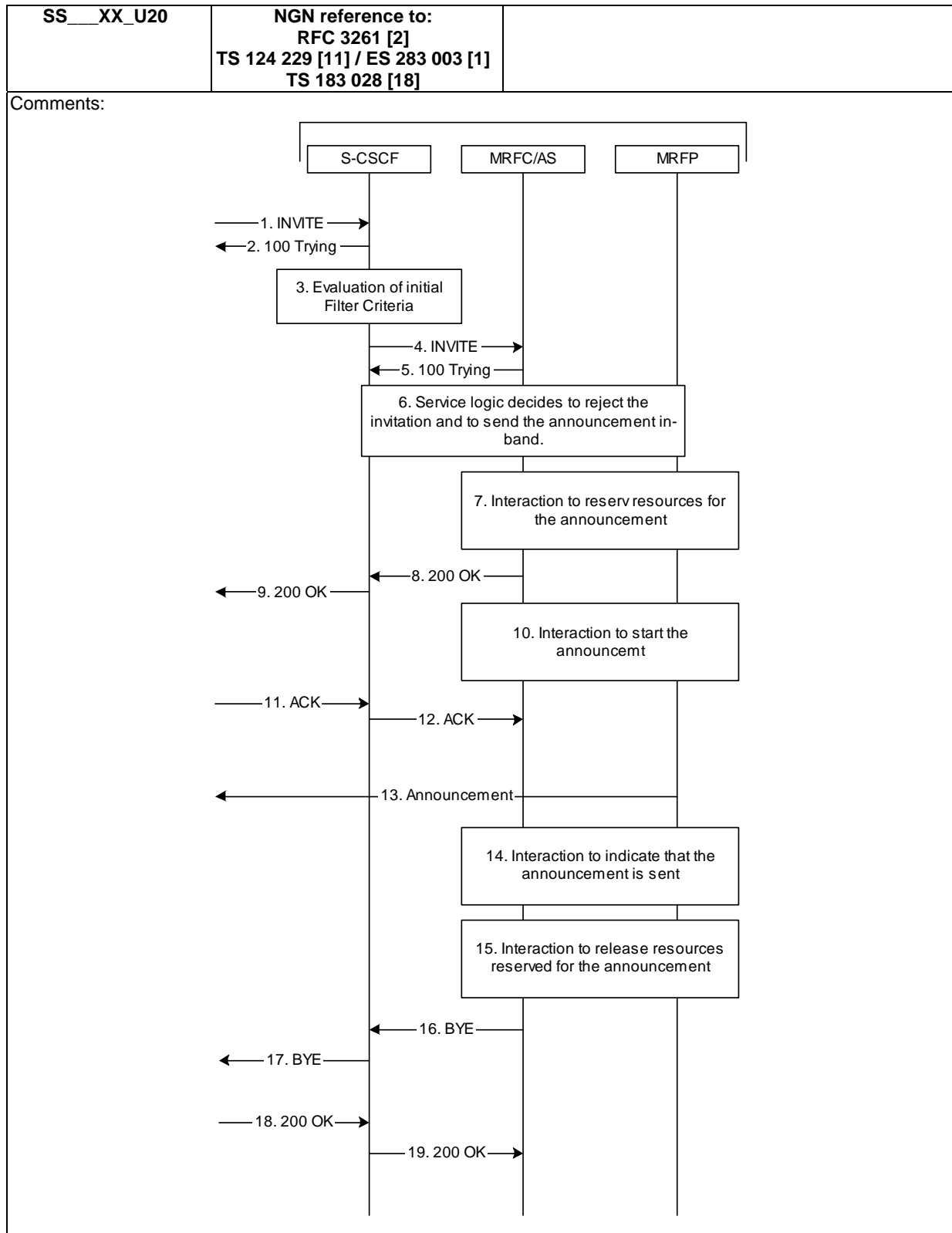
<b>SI__XX_U18</b>	<b>PSTN reference to: EN 300 403-1 [14], clause G.1.6</b>	<b>NGN reference to: EN 383 001 [15], clause 6.11 ES 283 027 [16], clause 7.2.3.1</b>																														
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful.																															
Selection criteria:																																
Test purpose:	During the call establishment, the <b>calling user</b> sends a media type not supported by the SUT. The call attempt is rejected by sending a 415 Unsupported media Type.																															
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition..																															
Comments:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></td> <td style="text-align: center;"><b>SIP</b></td> <td style="width: 33%;"></td> <td style="text-align: center;"><b>SUT</b></td> <td style="width: 33%;"></td> <td style="text-align: center;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>415 Unsupported Media Type</td> <td></td> <td style="text-align: center;">←</td> <td></td> <td style="text-align: center;">←</td> <td>415 Unsupported Media Type</td> </tr> <tr> <td>ACK</td> <td></td> <td style="text-align: center;">→</td> <td></td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>			<b>SIP</b>		<b>SUT</b>		<b>SIP</b>	INVITE		→		→	INVITE	100 Trying		←		←		415 Unsupported Media Type		←		←	415 Unsupported Media Type	ACK		→		→	ACK
	<b>SIP</b>		<b>SUT</b>		<b>SIP</b>																											
INVITE		→		→	INVITE																											
100 Trying		←		←																												
415 Unsupported Media Type		←		←	415 Unsupported Media Type																											
ACK		→		→	ACK																											

<b>SS__XX_U19</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Communication request rejected.</li> <li>• Sending the announcement as in-band information.</li> </ul>	
Test purpose:	<p>Service logic in an AS, e.g. the ACR service, decides to reject a communication request and provide an announcement to explain the reason for the rejection to the originating user.</p> <p>Ensure that the network can generate announcement using early media i.e. the AS establish an early session and uses that early session to send the in-band announcement.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	



<b>SS__XX_U20</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Communication request rejected.</li> <li>• Sending the announcement as in-band information.</li> </ul>	
Test purpose:	<p>Service logic in an AS, e.g. the ACR service, decides to reject a communication request and provide an announcement to explain the reason for the rejection to the originating user.</p> <p>Ensure hat the network can generate an announcement using an established session i.e. the AS accepts the INVITE request and uses the established session to send the in-band announcement.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p>	





<b>SS__XX_U21</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Communication request rejected.</li> <li>• Sending the announcement as in-band information.</li> </ul>	
Test purpose:	<p>Service logic in an AS, e.g. the ACR service, decides to reject a communication request and provide an announcement to explain the reason for the rejection to the originating user.</p> <p>Ensure hat the network can generate announcement include a reference to the announcement in a 3XX, 4XX, 5XX and 6XX response.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	<pre> sequenceDiagram     participant External     participant S-CSCF     participant AS      External-&gt;&gt;S-CSCF: 1. INVITE     S-CSCF-&gt;&gt;External: 2. 100 Trying     Note over S-CSCF: 3. Evaluation of initial Filter Criteria     S-CSCF-&gt;&gt;AS: 4. INVITE     AS-&gt;&gt;S-CSCF: 5. 100 Trying     Note over S-CSCF: 6. Service logic decides to reject the invitation and provides a reference to an announcement explaining the reason.     AS-&gt;&gt;S-CSCF: 7. 3xx,4xx,5xx or 6xx [http://url.wav]     S-CSCF-&gt;&gt;AS: 8. ACK     S-CSCF-&gt;&gt;External: 9. 3xx,4xx,5xx or 6xx [http://url.wav]     External-&gt;&gt;S-CSCF: 10. ACK </pre>	

<b>SS__XX_U01</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																
Selection criteria:																	
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with a 404 Not Found message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">SIP</th> <th style="text-align: center;">SUT</th> <th style="text-align: center;">SIP</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>404 Not Found</td> <td style="text-align: center;">←</td> <td>404 Not Found</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </tbody> </table>		SIP	SUT	SIP	INVITE	→	INVITE	100 Trying	←		404 Not Found	←	404 Not Found	ACK	→	ACK
SIP	SUT	SIP															
INVITE	→	INVITE															
100 Trying	←																
404 Not Found	←	404 Not Found															
ACK	→	ACK															

<b>SS__XX_U02</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																
Selection criteria:																	
Test purpose:	Ensure that the call will be released if the Service unavailable. The network initiates call clearing to the calling user with a 503 Service unavailable message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">SIP</th> <th style="text-align: center;">SUT</th> <th style="text-align: center;">SIP</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>503 Service Unavailable</td> <td style="text-align: center;">←</td> <td>503 Service Unavailable</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </tbody> </table>		SIP	SUT	SIP	INVITE	→	INVITE	100 Trying	←		503 Service Unavailable	←	503 Service Unavailable	ACK	→	ACK
SIP	SUT	SIP															
INVITE	→	INVITE															
100 Trying	←																
503 Service Unavailable	←	503 Service Unavailable															
ACK	→	ACK															

<b>SS__XX_U03</b>	<b>NGN reference to: RFC 3261 [2] and RFC 2327 [22]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																
Selection criteria:																	
Test purpose:	Ensure that, when the called user is busy the <b>network initiate</b> call clearing to the calling user with a 486 Busy Here message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">SIP</th> <th style="text-align: center;">SUT</th> <th style="text-align: center;">SIP</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>486 Busy Here</td> <td style="text-align: center;">←</td> <td>486 Busy Here</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </tbody> </table>		SIP	SUT	SIP	INVITE	→	INVITE	100 Trying	←		486 Busy Here	←	486 Busy Here	ACK	→	ACK
SIP	SUT	SIP															
INVITE	→	INVITE															
100 Trying	←																
486 Busy Here	←	486 Busy Here															
ACK	→	ACK															

<b>SS__XX_U04</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																																														
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																																																														
Selection criteria:																																																															
Test purpose:	Ensure that when there is no answer from the called user (there is no response from INVITE messages), the network initiate call clearing to the calling user with a 480 Temporarily unavailable message or 408 request time out .																																																														
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																																														
Comments:	<table style="width:100%; border:none;"> <thead> <tr> <th style="text-align:left;"></th> <th style="text-align:center;">UE1</th> <th style="text-align:center;">Proxy 1</th> <th style="text-align:center;">Proxy 2</th> <th style="text-align:right;">UE2</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align:center;">→</td> <td></td> <td></td> <td></td> </tr> <tr> <td>100</td> <td style="text-align:center;">←</td> <td>INVITE</td> <td style="text-align:center;">→</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">←</td> <td>INVITE</td> <td style="text-align:center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align:center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> <tr> <td>480</td> <td style="text-align:center;">←</td> <td>480</td> <td style="text-align:center;">←</td> <td>480</td> </tr> <tr> <td>ACK</td> <td style="text-align:center;">→</td> <td>ACK</td> <td style="text-align:center;">→</td> <td>ACK</td> </tr> </tbody> </table>				UE1	Proxy 1	Proxy 2	UE2	INVITE	→				100	←	INVITE	→				←	INVITE	→					→				→	→				→	→				→	→				→	→				→	→	480	←	480	←	480	ACK	→	ACK	→	ACK
	UE1	Proxy 1	Proxy 2	UE2																																																											
INVITE	→																																																														
100	←	INVITE	→																																																												
		←	INVITE	→																																																											
				→																																																											
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			→	→																																																											
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			→	→																																																											
			→	→																																																											
480	←	480	←	480																																																											
ACK	→	ACK	→	ACK																																																											

<b>SS__XX_U05</b>	<b>NGN reference to:</b> <b>draft-ietf-sipping-basic-call-flows-02.txt</b>																						
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																						
Selection criteria:	A transaction timer regarding the call establishment is implemented at the UAS.																						
Test purpose:	Ensure that when there is no answer from the called user, the user initiate call clearing to the calling user with a 480 Temporarily unavailable message (do not disturb service).																						
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																						
Comments:	<table style="width:100%; border:none;"> <thead> <tr> <th style="text-align:left;"></th> <th style="text-align:center;">SIP UA A</th> <th style="text-align:center;">SUT</th> <th style="text-align:right;">SIP UA B</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> <tr> <td>180 Ringing</td> <td></td> <td style="text-align:center;">←</td> <td style="text-align:center;">←</td> </tr> <tr> <td>480 Teporary unavaible</td> <td></td> <td style="text-align:center;">←</td> <td style="text-align:center;">←</td> </tr> <tr> <td>ACK</td> <td></td> <td style="text-align:center;">→</td> <td style="text-align:center;">→</td> </tr> </tbody> </table>				SIP UA A	SUT	SIP UA B	INVITE		→	→	180 Ringing		←	←	480 Teporary unavaible		←	←	ACK		→	→
	SIP UA A	SUT	SIP UA B																				
INVITE		→	→																				
180 Ringing		←	←																				
480 Teporary unavaible		←	←																				
ACK		→	→																				

<b>SS__XX_U06</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>		
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.		
Selection criteria:			
Test purpose:	Ensure that when the number is changed, the network initiate call clearing to the calling user with a 410 Gone message.		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		

<b>SS__XX_U06</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																
Comments:	<table border="0"> <tr> <td style="text-align: center;"><b>SIP</b></td> <td style="text-align: center;"><b>SUT</b></td> <td style="text-align: center;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>410m Gone</td> <td style="text-align: center;">←</td> <td>410 Gone</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>	<b>SIP</b>	<b>SUT</b>	<b>SIP</b>	INVITE	→	INVITE	100 Trying	←		410m Gone	←	410 Gone	ACK	→	ACK	
<b>SIP</b>	<b>SUT</b>	<b>SIP</b>															
INVITE	→	INVITE															
100 Trying	←																
410m Gone	←	410 Gone															
ACK	→	ACK															

<b>SS__XX_U07</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful																
Selection criteria:																	
Test purpose:	Ensure that when the destination is out of order, the network initiate call clearing to the calling user with a 502 Bad Gateway message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table border="0"> <tr> <td style="text-align: center;"><b>SIP</b></td> <td style="text-align: center;"><b>SUT</b></td> <td style="text-align: center;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>502 Bad Gateway</td> <td style="text-align: center;">←</td> <td>502 Bad Gateway</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>	<b>SIP</b>	<b>SUT</b>	<b>SIP</b>	INVITE	→	INVITE	100 Trying	←		502 Bad Gateway	←	502 Bad Gateway	ACK	→	ACK	
<b>SIP</b>	<b>SUT</b>	<b>SIP</b>															
INVITE	→	INVITE															
100 Trying	←																
502 Bad Gateway	←	502 Bad Gateway															
ACK	→	ACK															

<b>SS__XX_U08</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																
Selection criteria:																	
Test purpose:	Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user with 484 Address Incomplete message.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
Comments:	<table border="0"> <tr> <td style="text-align: center;"><b>SIP</b></td> <td style="text-align: center;"><b>SUT</b></td> <td style="text-align: center;"><b>SIP</b></td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>100 Trying</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>484 Address Incomplete</td> <td style="text-align: center;">←</td> <td>484 Address Incomplete</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> </table>	<b>SIP</b>	<b>SUT</b>	<b>SIP</b>	INVITE	→	INVITE	100 Trying	←		484 Address Incomplete	←	484 Address Incomplete	ACK	→	ACK	
<b>SIP</b>	<b>SUT</b>	<b>SIP</b>															
INVITE	→	INVITE															
100 Trying	←																
484 Address Incomplete	←	484 Address Incomplete															
ACK	→	ACK															

<b>SS__XX_U09</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the called user is not compatible the network initiates call clearing to the calling user with a 503 Service unavailable message.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	

<b>SS__XX_U09</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>			
Comments:	<b>SIP</b> INVITE → 100 Trying ← 503 Service unavailable ← ACK →	<b>SUT</b>	<b>SIP</b> → INVITE ← 503 Service unavailable → ACK	

<b>SS__XX_U10</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1]</b>																																																																																																																																																																																																
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																																																																																																																																																																																																
Selection criteria:																																																																																																																																																																																																	
Test purpose:	Ensure that when the calling user clears the call with a CANCEL message before answer from called user, the network transport the CANCEL message to the called user.																																																																																																																																																																																																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																																																																																																																																																																																
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Test purpose:	<ul style="list-style-type: none"> <li>Ensure that answer related to the SDP offer is contained in the 183 Session Progress message. The media stream is rejected (port number is set to zero).</li> <li>Ensure that the call is rejected by sending a CANCEL or BYE.</li> </ul>																																											
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<b>SIP</b>	<b>SUT</b>	<b>SIP</b>																																										
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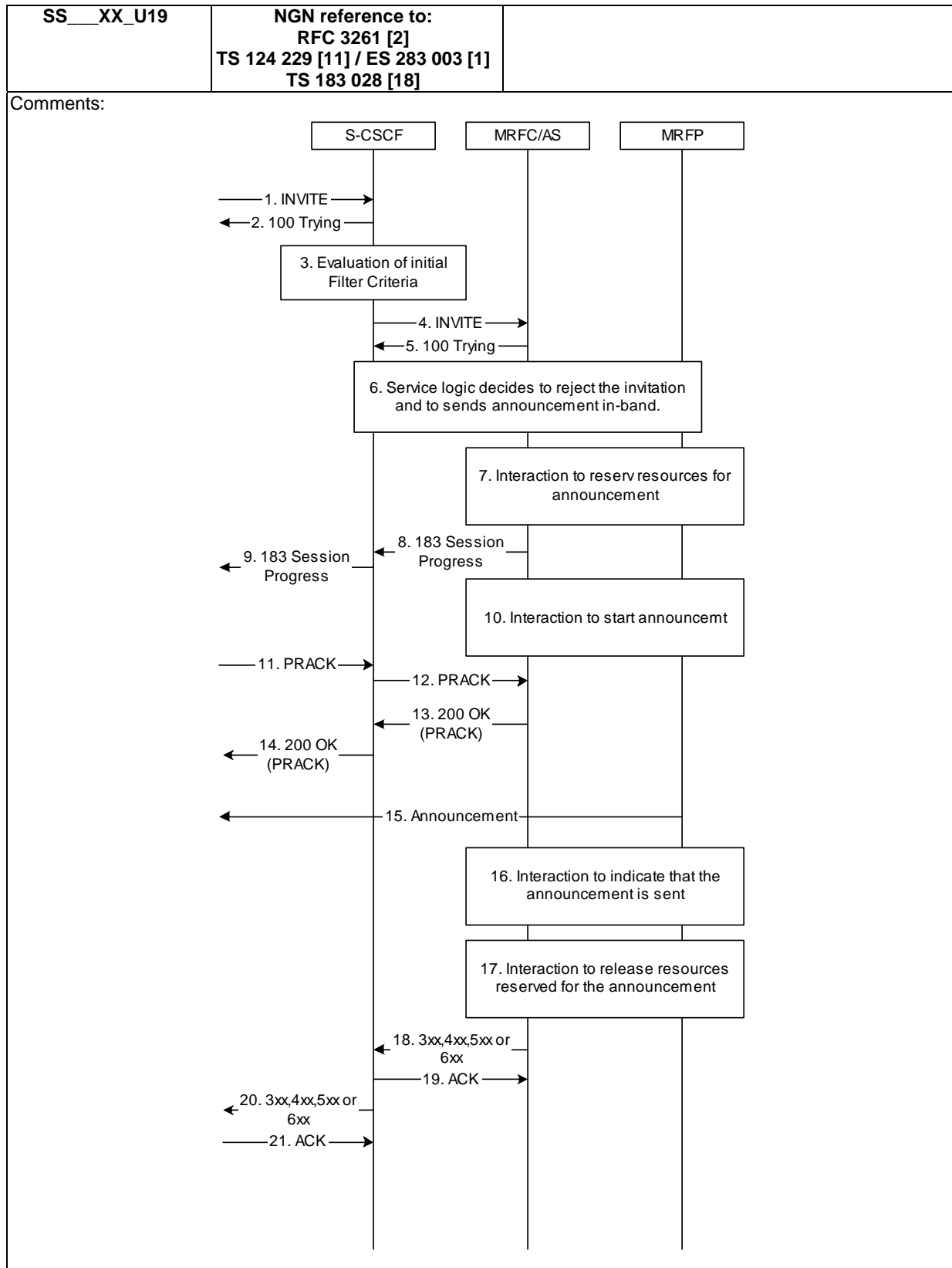
<b>SS__XX_U15</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																													
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																													
Selection criteria:																														
Test purpose:	<ul style="list-style-type: none"> <li>Ensure that answer related to the SDP offer is contained in the 200 OK INVITE message. The media stream is rejected (port number is set to zero).</li> <li>Ensure that the call is rejected by sending a BYE.</li> </ul>																													
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																													
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	SIP	SUT	SIP																											
INVITE	offer1	→	→ INVITE offer1																											
100 Trying		←																												
200 OK answer 1		→	→ 200 OK answer 1																											
ACK		→	→ ACK																											
BYE		←	← BYE																											
200 OK		→	→ 200 OK																											

<b>SS__XX_U16</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b>																																	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.																																	
Selection criteria:																																		
Test purpose:	Ensure that when there is no answer from the called user (" <i>no user responding</i> "), the calling user initiate call clearing to the calling user with CANCEL or BYE.																																	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																	
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200 OK CANCEL		→	→ 200 OK CANCEL																															
487 Request Terminated		←	← 487 Request Terminated																															
ACK		→	→ ACK																															

<b>SS__XX_U17</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 / ES 283 003 [1]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:		
Test purpose:	Ensure that upon receiving a 421 (Extension Required) response to an initial INVITE request in which the precondition mechanism was not used, including the "precondition" option tag in the Require header, the originating UE shall send a new INVITE request using the precondition mechanism, if the originating UE supports the precondition mechanism.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

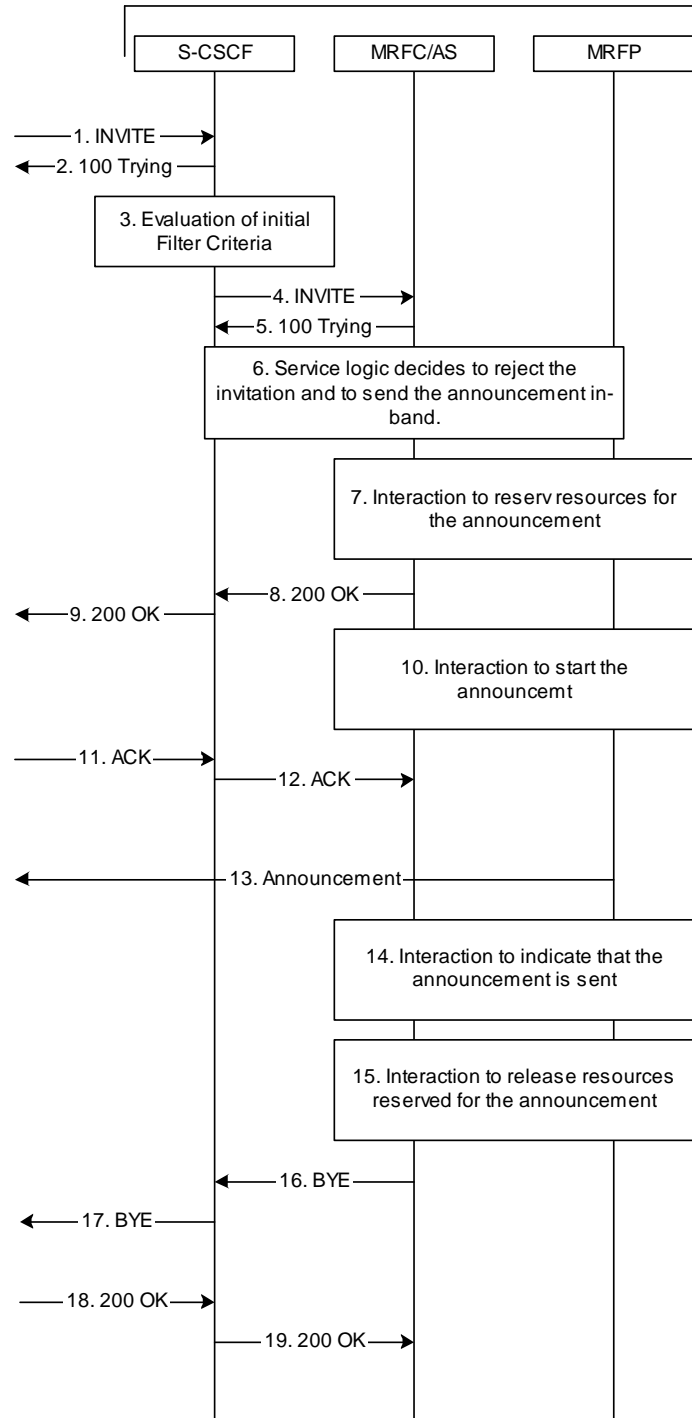
<b>SI__XX_U18</b>	<b>PSTN reference to: EN 300 403-1 [14], clause G.1.6</b>	<b>NGN reference to: Q.1912.5 clause 6.11 EN 383 001 [15] clause 6.11 ES 283 027 [16] clause 7.2.3.1</b>															
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful.																
Selection criteria:																	
Test purpose:	During the call establishment, the <b>calling user</b> sends a media type not supported by the SUT. The call attempt is rejected by sending a 415 Unsupported media Type.																
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																
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<b>SIP</b>	<b>SUT</b>	<b>SIP</b>															
INVITE	→	INVITE															
100 Trying	←																
415 Unsupported Media Type	←	415 Unsupported Media Type															
ACK	→	ACK															

<b>SS__XX_U19</b>	<b>NGN reference to: RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Communication request rejected.</li> <li>• Sending the announcement as in-band information.</li> </ul>	
Test purpose:	Service logic in an AS, e.g. the ACR service, decides to reject a communication request and provide an announcement to explain the reason for the rejection to the originating user. Ensure that the network can generate announcement using early media i.e. the AS establish an early session and uses that early session to send the in-band announcement.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	



<b>SS__XX_U20</b>	<b>NGN reference to:</b> <b>RFC 3261 [2]</b> <b>TS 124 229 [11] / ES 283 003 [1]</b> <b>TS 183 028 [18]</b>	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Communication request rejected.</li> <li>• Sending the announcement as in-band information.</li> </ul>	
Test purpose:	<p>Service logic in an AS, e.g. the ACR service, decides to reject a communication request and provide an announcement to explain the reason for the rejection to the originating user.</p> <p>Ensure hat the network can generate an announcement using an established session i.e. the AS accepts the INVITE request and uses the established session to send the in-band announcement.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	

Comments:



<b>SS__XX_U21</b>	<b>NGN reference to:</b> RFC 3261 [2] TS 124 229 [11] / ES 283 003 [1] TS 183 028 [18]	
TSS reference:	SIP-SIP/Basic_call/Unsuccessful.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Communication request rejected.</li> <li>• Sending the announcement as in-band information.</li> </ul>	
Test purpose:	<p>Service logic in an AS, e.g. the ACR service, decides to reject a communication request and provide an announcement to explain the reason for the rejection to the originating user.</p> <p>Ensure hat the network can generate announcement include a reference to the announcement in a 3XX, 4XX, 5XX and 6XX response.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	<pre> sequenceDiagram     participant S as S-CSCF     participant A as AS     S-&gt;&gt;A: 1. INVITE     A--&gt;S: 2. 100 Trying     Note over A: 3. Evaluation of initial Filter Criteria     S-&gt;&gt;A: 4. INVITE     A--&gt;S: 5. 100 Trying     Note over A: 6. Service logic decides to reject the invitation and provides a reference to an announcement explaining the reason.     A--&gt;S: 7. 3xx,4xx,5xx or 6xx [http://url.wav]     S-&gt;&gt;A: 8. ACK     S--&gt;A: 9. 3xx,4xx,5xx or 6xx [http://url.wav]     A-&gt;&gt;S: 10. ACK </pre>	

## 6.5.2 Test purposes for SIP-SIP, Supplementary services

### 6.5.2.1 Test purposes for OIP

SS	XXSS_OIP01	OIP/OIR reference [16] clauses 4.3.2 and 4.5.2.4		
TSS reference:	SIP-SIP/SupplementaryServices/OIP			
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted". The terminating user subscribes the OIP service.			
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and no privacy value is received, ensure that no identity information is provided by the originating UE, the terminating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the originating UE identifies the originator of the session.			
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.			
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>	
	INVITE	→	→	INVITE
	180 Ringing	←	←	180 Ringing
	200 OK INVITE	←	←	200 OK INVITE
	ACK	→	→	ACK
		Conversation		
	BYE	→	→	BYE
	200 OK (BYE)	←	←	200 OK (BYE)

SS	XXSS_OIP02	OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4		
TSS reference:	SIP-SIP/SupplementaryServices/OIP.			
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted". The terminating user subscribes the OIP service.			
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and the Privacy header field that is set to " <b>none</b> ", ensure that no identity information is provided by the originating UE, the terminating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the originating UE identifies the originator of the session.			
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.			
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>	
	INVITE	→	→	INVITE
	180 Ringing	←	←	180 Ringing
	200 OK INVITE	←	←	200 OK INVITE
	ACK	→	→	ACK
		Conversation		
	BYE	→	→	BYE
	200 OK (BYE)	←	←	200 OK (BYE)



<b>SS</b> <b>XXSS_OIP03</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "restricted" is subscribed and the Privacy header field that is set to " <b>none</b> ", ensure that no identity information is provided by the originating UE, the terminating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the originating UE identifies the originator of the session.																									
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SIP UA A	SUT	SIP UA B																								
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ACK	→	→ ACK																								
	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIP05</b>	<b>OIP/OIR reference [19]</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and no privacy value is received, ensure that an identity information is provided by the originating UE, does not match with the set of registered public identities of the originating UE the terminating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the originating UE identifies the originator of the session.																									
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	Conversation																									
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<b>SS</b> <b>XXSS_OIP06</b>	<b>OIP/OIR reference [19]</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and the Privacy header field that is set to " <b>none</b> ", ensure that an identity information is provided by the originating UE, does not match with the set of registered public identities of the originating UE the terminating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the originating UE identifies the originator of the session.																									
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	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIP07</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "restricted" is subscribed and the Privacy header field that is set to " <b>none</b> ", ensure that an identity information is provided by the originating UE, does not match with the set of registered public identities of the originating UE the terminating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the originating UE identifies the originator of the session.																									
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<b>SS</b> <b>XXSS_OIP09</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and no privacy value is received, ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE the terminating user receives a <b>P-Asserted-Identity</b> based on the information provided by the originating UE identifies the originator of the session.																									
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<b>SS</b> <b>XXSS_OIP10</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and the Privacy header field that is set to " <b>none</b> ", ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE the terminating user receives a <b>P-Asserted-Identity</b> based on the information provided by the originating UE, identifies the originator of the session.																									
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<b>SS</b> <b>XXSS_OIP11</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted". The terminating user subscribes the OIP service.																									
Test purpose:	In case "temporary mode" with default "restricted" is subscribed and the Privacy header field that is set to " <b>none</b> ", ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE the terminating user receives a <b>P-Asserted-Identity</b> based on the information provided by the originating UE, identifies the originator of the session.																									
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<b>SS</b> <b>XXSS_OIP13</b>	<b>OIP/OIR reference [19] clause 4.5.2.3</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The S-CSCF has knowledge of an associated tel-URI for a SIP URI The terminating user subscribes the OIP service.																									
Test purpose:	The S-CSCF has knowledge of an associated tel-URI for a SIP URI contained in the P-Asserted-Identity header field received in the request, the S-CSCF adds a second P-Asserted-Identity header field containing this tel-URI.																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																									
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Conversation																										
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIP14</b>	<b>OIP/OIR reference [19] clause 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP																									
Selection criteria:	OIP service subscribed. Special arrangement does not exist. The network attempts to match the information in the From header with the set of registered public identities of the originating user.																									
Test purpose:	The special arrangement does not exist. The network attempts to match the information in the From header with the set of registered public identities of the originating user There is no match found, the AS sets the From header to the SIP URI that includes the registered default public user identity.																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																									
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	Conversation																									
BYE	→	→ BYE																								
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<b>SS</b> <b>XXSS_OIP15</b>	<b>OIP/OIR reference [19] clause 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	<ul style="list-style-type: none"> <li>• OIP service subscribed.</li> <li>• Special arrangement exists.</li> </ul>																									
Test purpose:	The special arrangement exists. The network does not attempt to match the information in the From header with the set of registered public identities of the originating user. The From header field is transparently transported to the terminating user.																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																									
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## 6.5.2.2 Test purposes for OIR

<b>SS</b> <b>XXSS_OIR01</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted".																									
Test purpose:	In case "temporary mode" with default "restricted" is subscribed a Privacy value was not received, ensure that no identity information is provided by the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																									
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<b>SS</b> <b>XXSS_OIR02</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted".																									
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<b>SS</b> <b>XXSS_OIR03</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
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<b>SS</b> <b>XXSS_OIR04</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR.																									
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<b>SS</b> <b>XXSS_OIR06</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR.																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted".																									
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TSS reference:	SIP-SIP/SupplementaryServices/OIR.																									
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Test purpose:	In case "permanent mode" is subscribed a Privacy header field that is set to "id", ensure that an identity information is provided by the originating UE, does not match with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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INVITE	→	→ INVITE																								
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	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIR11</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted".																									
Test purpose:	In case "temporary mode" with default "restricted" is subscribed a Privacy value was not received, ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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SIP UA A	SUT	SIP UA B																								
INVITE	→	→ INVITE																								
180 Ringing	←	← 180 Ringing																								
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ACK	→	→ ACK																								
	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIR12</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR																									
Selection criteria:	The user subscribes OIR "temporary mode" default "restricted".																									
Test purpose:	In case "temporary mode" with default "restricted" is subscribed a Privacy header field that is set to "id", ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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SIP UA A	SUT	SIP UA B																								
INVITE	→	→ INVITE																								
180 Ringing	←	← 180 Ringing																								
200 OK INVITE	←	← 200 OK INVITE																								
ACK	→	→ ACK																								
	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIR13</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR																									
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted".																									
Test purpose:	a Privacy header field that is set to "id", ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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ACK	→	→ ACK																								
	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIR14</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR																									
Selection criteria:	The user subscribes OIR permanent mode.																									
Test purpose:	In case "permanent mode" is subscribed, a Privacy value was not received, ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session- The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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	Conversation																									
BYE	→	→ BYE																								
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<b>SS</b> <b>XXSS_OIR15</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR																									
Selection criteria:	The user subscribes OIR permanent mode.																									
Test purpose:	In case "permanent mode" is subscribed a Privacy header field that is set to "id", ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b> <b>XXSS_OIR16</b>	<b>OIP/OIR reference [19] clause 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIR.																									
Selection criteria:	The user subscribes OIR permanent mode. Modifies the From header field to remove the identification.																									
Test purpose:	In case of the OIR service, the AS modifies the From header field to remove the identification information. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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	Conversation																									
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS</b>	<b>XXSS_OIR17</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>	
TSS reference:	SIP-SIP/SupplementaryServices/OIR.		
Selection criteria:	The user subscribes OIR permanent mode the AS add a Privacy header field set to "user".		
Test purpose:	In case of the OIR service, the AS add a Privacy header field set to "user".		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
	INVITE	→	→ INVITE
	180 Ringing	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
		Conversation	
	BYE	→	→ BYE
	200 OK (BYE)	←	← 200 OK (BYE)

<b>SS</b>	<b>XXSS_OIR18</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>	
TSS reference:	SIP-SIP/SupplementaryServices/OIP		
Selection criteria:	The user subscribes OIR "permanent mode". The terminating user subscribes the OIP service.		
Test purpose:	In case "permanent mode" is subscribed a Privacy header field that is set to "none", ensure that an identity information is provided by the originating UE, matches with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
	INVITE	→	→ INVITE
	180 Ringing	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
		Conversation	
	BYE	→	→ BYE
	200 OK (BYE)	←	← 200 OK (BYE)

<b>SS XXSS_OIR19</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "permanent mode". The terminating user subscribes the OIP service.																									
Test purpose:	In case "permanent mode" is subscribed a Privacy header field that is set to " <b>none</b> ", ensure that an identity information is provided by the originating UE, does not match with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received-																									
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<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>																								
INVITE	→	→ INVITE																								
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Conversation																										
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

<b>SS XXSS_OIR20</b>	<b>OIP/OIR reference [19] clauses 4.3.2 and 4.5.2.4</b>																									
TSS reference:	SIP-SIP/SupplementaryServices/OIP.																									
Selection criteria:	The user subscribes OIR "permanent mode". The terminating user subscribes the OIP service.																									
Test purpose:	In case "permanent mode" is subscribed a Privacy header field that is set to " <b>none</b> ", ensure that no identity information is provided by the originating UE, does not match with the set of registered public identities of the originating UE, the terminating user does not receive an information identifying the originator of the session. The terminating UE receives a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received.																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																									
Comments:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 33%;"><b>SIP UA A</b></th> <th style="text-align: center; width: 33%;"><b>SUT</b></th> <th style="text-align: right; width: 33%;"><b>SIP UA B</b></th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→ INVITE</td> </tr> <tr> <td>180 Ringing</td> <td style="text-align: center;">←</td> <td style="text-align: right;">← 180 Ringing</td> </tr> <tr> <td>200 OK INVITE</td> <td style="text-align: center;">←</td> <td style="text-align: right;">← 200 OK INVITE</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→ ACK</td> </tr> <tr> <td colspan="3" style="text-align: center;">Conversation</td> </tr> <tr> <td>BYE</td> <td style="text-align: center;">→</td> <td style="text-align: right;">→ BYE</td> </tr> <tr> <td>200 OK (BYE)</td> <td style="text-align: center;">←</td> <td style="text-align: right;">← 200 OK (BYE)</td> </tr> </tbody> </table>		<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>	INVITE	→	→ INVITE	180 Ringing	←	← 180 Ringing	200 OK INVITE	←	← 200 OK INVITE	ACK	→	→ ACK	Conversation			BYE	→	→ BYE	200 OK (BYE)	←	← 200 OK (BYE)
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>																								
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ACK	→	→ ACK																								
Conversation																										
BYE	→	→ BYE																								
200 OK (BYE)	←	← 200 OK (BYE)																								

## 6.5.2.3 Test purposes for TIP

<b>SS__XXSS_TIP01</b>	<b>[18] clause 5.2.6.4, [12] clause 4.5.2.4</b>		
TSS reference:	SIP-SIP/SupplementaryServices/TIP.		
Selection criteria:	The user subscribes TIR "temporary mode" default "not restricted". The originating user subscribes the TIP service.		
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and no privacy value is received, ensure that the identity information is provided by the P-CSCF, the originating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the terminating UE identifies the callee.		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
	INVITE	→	→ INVITE
	<b>Case A</b>		
	180 Ringing (P-Asserted-Identity)	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Case B</b>		
	183 Session Progress (P-Asserted-Identity)	←	← 183 Session Progress
	180 Ringing	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Case C</b>		
	180 Ringing	←	← 180 Ringing
	200 OK INVITE (P-Asserted-Identity)	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Conversation</b>		
	BYE	→	→ BYE
	200 OK (BYE)	←	← 200 OK (BYE)



<b>SS</b> XXSS_TIP02	<b>[18] clause 5.2.6.4, [12] clause 4.5.2.4</b>		
TSS reference:	SIP-SIP/SupplementaryServices/TIP.		
Selection criteria:	The user subscribes TIR "temporary mode" default "not restricted". The originating user subscribes the TIP service.		
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and a Privacy header field is set to " <b>none</b> ", ensure that the identity information is provided by the P-CSCF, the originating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the terminating UE identifies the callee.		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
	INVITE	→	→ INVITE
	<b>Case A</b>		
	180 Ringing(P-Asserted-Identi)	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Case B</b>		
	183 Session Progress(P-Asserted-Identi)	←	← 183 Session Progress
	180 Ringing	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Case C</b>		
	180 Ringing	←	← 180 Ringing
	200 OK INVITE(P-Asserted-Identi)	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Conversation</b>		
	BYE	→	→ BYE
	200 OK (BYE)	←	← 200 OK (BYE)

SS	XXSS	TIP03	[18] clause 5.2.6.4, [12] clause 4.5.2.4																																																																																										
TSS reference:	SIP-SIP/SupplementaryServices/TIP.																																																																																												
Selection criteria:	The user subscribes TIR "temporary mode" default "restricted". The originating user subscribes the TIP service.																																																																																												
Test purpose:	In case "temporary mode" with default "restricted" is subscribed and a Privacy header field is set to " <b>none</b> " ensure that the identity information is provided by the P-CSCF, the originating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the terminating UE identifies the callee.																																																																																												
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BYE		→	→	BYE																																																																																									
200 OK (BYE)		←	←	200 OK (BYE)																																																																																									

#### 6.5.2.4 Test purposes for TIR

SS	XXSS	TIR01	[18] clause 5.2.6.4, [12] clauses 4.5.2.4 and 4.5.2.9																																																																						
TSS reference:	SIP-SIP/SupplementaryServices/TIR.																																																																								
Selection criteria:	The terminating user subscribes TIR "temporary mode" default "not restricted". The originating user subscribes the TIP service.																																																																								
Test purpose:	In case "temporary mode" with default "not restricted" is subscribed and a Privacy header field is set to " <b>id</b> ", ensure that identity information is provided by the terminating P-CSCF, the originating user does not receive an information identifying the callee neither in a 1XXx response nor in a 2XX response.																																																																								
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	SIP UA A	SUT		SIP UA B																																																																					
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ACK		→	→	ACK																																																																					
<b>Case B</b>																																																																									
183 Session Progress		←	←	183 Session Progress																																																																					
180 Ringing		←	←	180 Ringing																																																																					
200 OK INVITE		←	←	200 OK INVITE																																																																					
ACK		→	→	ACK																																																																					
<b>Conversation</b>																																																																									
BYE		→	→	BYE																																																																					
200 OK (BYE)		←	←	200 OK (BYE)																																																																					

<b>SS</b> <b>XXSS</b> <b>TIR02</b>	<b>[18] clause 5.2.6.4, [12] clauses 4.5.2.4 and 4.5.2.9</b>	
TSS reference:	SIP-SIP/SupplementaryServices/TIR.	
Selection criteria:	The terminating user subscribes TIR "temporary mode" default "restricted". The originating user subscribes the TIP service.	
Test purpose:	In case "temporary mode" with default "restricted" is subscribed and no privacy value is received, ensure that identity information is provided by the terminating P-CSCF, the originating user does not receive an information identifying the callee neither in a 1XXx response nor in a 2XX response.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	<b>SIP UA A</b>	<b>SUT</b> <b>SIP UA B</b>
	INVITE	→      → INVITE
	<b>Case A</b>	
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Case B</b>	
	183 Session Progress	←      ← 183 Session Progress
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Conversation</b>	
	BYE	→      → BYE
	200 OK (BYE)	←      ← 200 OK (BYE)

<b>SS</b> <b>XXSS</b> <b>TIR03</b>	<b>[18] clause 5.2.6.4, [12] clauses 4.5.2.4 and 4.5.2.9</b>	
TSS reference:	SIP-SIP/SupplementaryServices/TIR.	
Selection criteria:	The terminating user subscribes TIR "temporary mode" default "restricted". The originating user subscribes the TIP service.	
Test purpose:	In case "temporary mode" with default "restricted" is subscribed and a Privacy header field is set to "id", ensure that identity information is provided by the terminating P-CSCF, the originating user does not receive an information identifying the callee neither in a 1XXx response nor in a 2XX response.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	<b>SIP UA A</b>	<b>SUT</b> <b>SIP UA B</b>
	INVITE	→      → INVITE
	<b>Case A</b>	
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Case B</b>	
	183 Session Progress	←      ← 183 Session Progress
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Conversation</b>	
	BYE	→      → BYE
	200 OK (BYE)	←      ← 200 OK (BYE)

<b>SS</b> <b>XXSS</b> <b>TIR04</b>	<b>[18] clause 5.2.6.4, [12] clauses 4.5.2.4 and 4.5.2.9</b>	
TSS reference:	SIP-SIP/SupplementaryServices/TIR.	
Selection criteria:	The terminating user subscribes TIR "permanent mode". The originating user subscribes the TIP service.	
Test purpose:	In case "permanent mode" is subscribed and no privacy value is received, ensure that identity information is provided by the terminating P-CSCF, the originating user does not receive an information identifying the callee neither in a 1XXx response nor in a 2XX response.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel nd precondition.	
Comments:	<b>SIP UA A</b>	<b>SUT</b> <b>SIP UA B</b>
	INVITE	→      → INVITE
	<b>Case A</b>	
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Case B</b>	
	183 Session Progress	←      ← 183 Session Progress
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Conversation</b>	
	BYE	→      → BYE
	200 OK (BYE)	←      ← 200 OK (BYE)

<b>SS</b> <b>XXSS</b> <b>TIR05</b>	<b>[18] clause 5.2.6.4, [12] clauses 4.5.2.4 and 4.5.2.9</b>	
TSS reference:	SIP-SIP/SupplementaryServices/TIR.	
Selection criteria:	The terminating user subscribes TIR "permanent mode". The originating user subscribes the TIP service.	
Test purpose:	In case "permanent mode" is subscribed and a Privacy header field is set to "id", ensure that identity information is provided by the terminating P-CSCF, the originating user does not receive an information identifying the callee neither in a 1XXx response nor in a 2XX response.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	<b>SIP UA A</b>	<b>SUT</b> <b>SIP UA B</b>
	INVITE	→      → INVITE
	<b>Case A</b>	
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Case B</b>	
	183 Session Progress	←      ← 183 Session Progress
	180 Ringing	←      ← 180 Ringing
	200 OK INVITE	←      ← 200 OK INVITE
	ACK	→      → ACK
	<b>Conversation</b>	
	BYE	→      → BYE
	200 OK (BYE)	←      ← 200 OK (BYE)

<b>SS</b> <b>XXSS_TIR16</b>	<b>[18] clause 5.2.6.4, [12] clause 4.3.3</b>		
TSS reference:	SIP-SIP/SupplementaryServices/TIP		
Selection criteria:	The originating user subscribes the TIP service. The originating use has the "override category". The terminating user subscribes TIR "permanent mode".		
Test purpose:	Ensure that an originating user, that subscribed the TIP service and additionally has the override category, receives the P-Asserted-Identity identifying the callee in a 1XX response or in a 2XX response. The originating user does not receive a Privacy value "id".		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
	INVITE	→	→ INVITE
	<b>Case A</b>		
	180 Ringing(P-Asserted-Identi)	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Case B</b>		
	183 Session Progress(P-Asserted-Identi)	←	← 183 Session Progress
	180 Ringing	←	← 180 Ringing
	200 OK INVITE	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Case C</b>		
	180 Ringing	←	← 180 Ringing
	200 OK INVITE(P-Asserted-Identi)	←	← 200 OK INVITE
	ACK	→	→ ACK
	<b>Conversation</b>		
	BYE	→	→ BYE
	200 OK (BYE)	←	← 200 OK (BYE)

<b>SS</b> XXSS_TIR17	<b>[18] clause 5.2.6.4, [12] clause 4.5.2.4</b>		
TSS reference:	SIP-SIP/SupplementaryServices/TIP		
Selection criteria:	The user subscribes TIR "permanent mode". The originating user subscribes the TIP service.		
Test purpose:	In case "permanent mode" is subscribed and a Privacy header field is set to " <b>none</b> ", ensure that the identity information is provided by the P-CSCF, the originating user receives a <b>P-Asserted-Identity</b> based on the default public user identity associated with the terminating UE identifies the callee.		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:	<b>SIP UA A</b> INVITE → <b>Case A</b> 180 Ringing(P-Asserted-Identi) ← 200 OK INVITE ← ACK → <b>Case B</b> 183 Session Progress(P-Asserted-Identi) ← 180 Ringing ← 200 OK INVITE ← ACK → <b>Case C</b> 180 Ringing ← 200 OK INVITE(P-Asserted-Identi) ← ACK → <b>Conversation</b> BYE → 200 OK (BYE) ←	<b>SUT</b> → ← 180 Ringing ← 200 OK INVITE → ACK ← 183 Session Progress ← 180 Ringing ← 200 OK INVITE → ACK ← 180 Ringing ← 200 OK INVITE → ACK → BYE ← 200 OK (BYE)	<b>SIP UA B</b> → INVITE ← 180 Ringing ← 200 OK INVITE → ACK ← 183 Session Progress ← 180 Ringing ← 200 OK INVITE → ACK ← 180 Ringing ← 200 OK INVITE → ACK → BYE ← 200 OK (BYE)

## 6.5.2.5 Hold

## 6.5.2.5.1 Communication Hold with support for UPDATE

<b>SS_XXSSCH01</b>	<b>NGN reference to: [21]</b>																									
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE																									
Selection criteria:	<i>Session hold. UPDATE method is used</i>																									
Test purpose:	<p><i>Individual media streams are affected. The media stream was previously set to sendrecv.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an UPDATE to hold the session. Hold is done containing the SDP with the attribute "a=" sendonly. The IUT after requesting the hold session receives 200 OK final response containing the SDP with the attribute "a=" recvonly.</p>																									
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendrecv".</li> <li>• Individual media streams.</li> </ul>																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																									
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<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>																								
INVITE ( <b>sendrecv</b> )	→	→ INVITE																								
180 Ringing	←	← 180 Ringing																								
200 OK INVITE	←	← 200 OK INVITE																								
UPDATE( <b>sendonly</b> )	→	→ UPDATE(sendonly)																								
200 OK UPDATE ( <b>recvonly</b> )	←	← 200 OK UPDATE (recvonly)																								
BYE	→	→ BYE																								
200 OK BYE	←	← 200 OK BYE																								

<b>SS_XXSSCH02</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE	
Selection criteria:	<i>Session hold. UPDATE method is used.</i>	
Test purpose:	<p><i>Individual media streams are affected. The media stream was previously set to recvonly.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an UPDATE to hold the session. Hold is done containing the SDP with the attribute "a=" inactive. The IUT after requesting the hold session <i>receives</i> 200 OK final response containing the SDP with the attribute "a=" inactive.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "recvonly".</li> <li>• Individual media streams.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	INVITE
180 Ringing	←	180 Ringing
200 OK INVITE	←	200 OK INVITE
UPDATE(sendonly)	←	UPDATE(sendonly)
200 OK UPDATE (recvonly)	→	200 OK UPDATE (recvonly)
UPDATE( <b>inactive</b> )	→	UPDATE( <b>inactive</b> )
200 OK UPDATE ( <b>inactive</b> )	←	200 OK UPDATE ( <b>inactive</b> )
BYE	→	BYE
200 OK BYE	←	200 OK BYE



<b>SS_XXSSCH03</b>	<b>NGN reference to: [21]</b>																																																			
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE																																																			
Selection criteria:	<i>Session hold. UPDATE method is used.</i>																																																			
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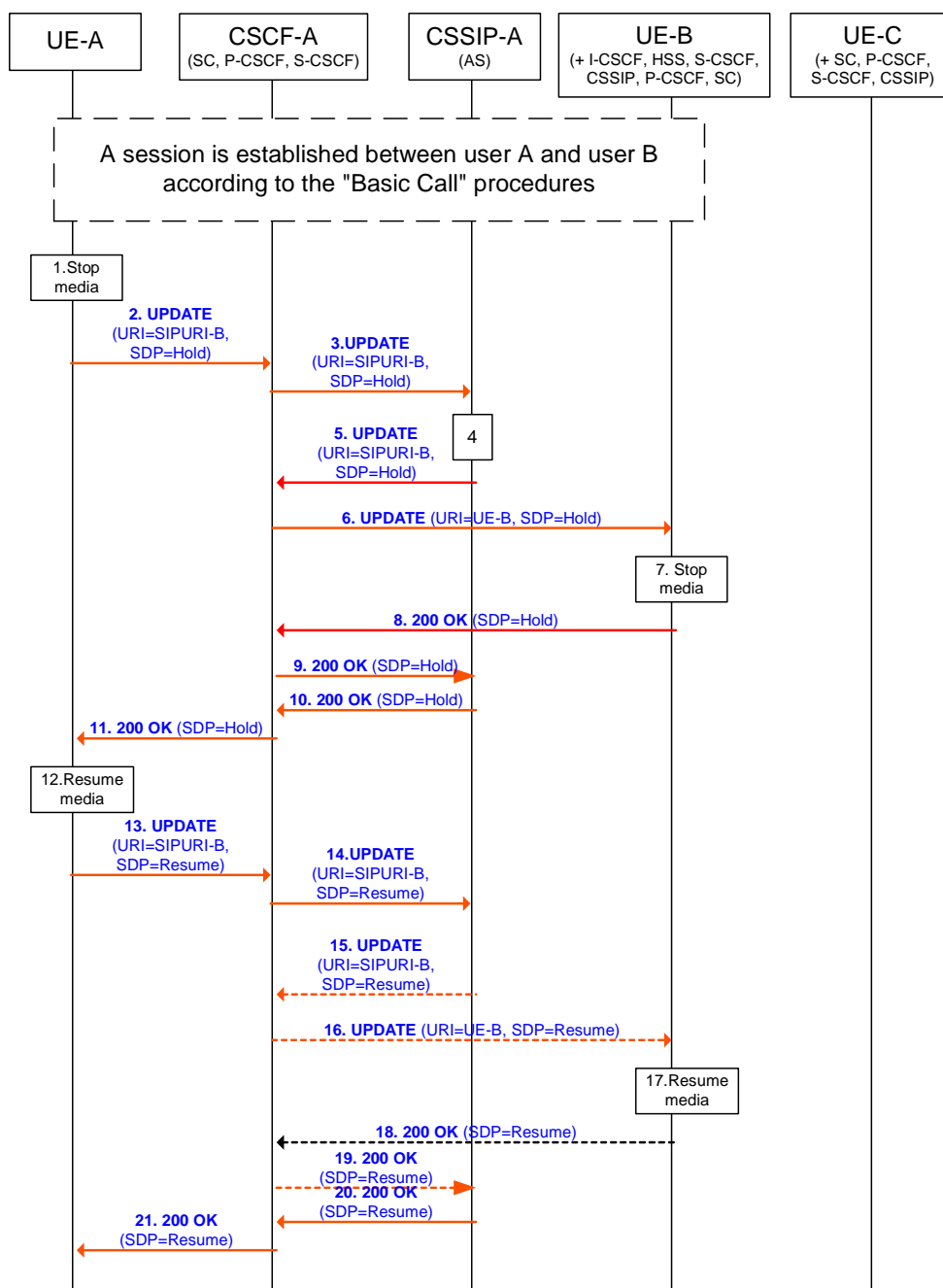
<b>SS_XXSSCH04</b>	<b>NGN reference to: [21]</b>																																					
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE																																					
Selection criteria:	<i>Session hold. UPDATE method is used. Individual media streams are affected.</i>																																					
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<b>SS_XXSSCH05</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE	
Selection criteria:	<i>Session hold. UPDATE method is used.</i>	
Test purpose:	<p><i>Individual media streams are affected. The media stream was previously set to sendrecv.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an UPDATE to hold the session. Hold is done containing the SDP with the attribute "a=" sendonly. The IUT after requesting the hold session receives 200 OK final response containing the SDP with the attribute "a=" recvonly.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendrecv".</li> <li>• Media streams in the SDP.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrecv</b> )	→	INVITE
180 Ringing	←	180 Ringing
200 OK INVITE	←	200 OK INVITE
UPDATE( <b>sendonly</b> )	→	UPDATE(sendonly)
200 OK UPDATE ( <b>recvonly</b> )	←	200 OK UPDATE (recvonly)
BYE	→	BYE
200 OK BYE	←	200 OK BYE

<b>SS_XXSSCH06</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE	
Selection criteria:	<i>Session hold. UPDATE method is used.</i>	
Test purpose:	<p><i>Individual media streams are affected. The media stream was previously set to recvonly.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an UPDATE to hold the session. Hold is done containing the SDP with the attribute "a=" inactive. The IUT after requesting the hold session <i>receives</i> 200 OK final response containing the SDP with the attribute "a=" inactive.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendonly".</li> <li>• Media streams in the SDP.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	INVITE
180 Ringing	←	180 Ringing
200 OK INVITE	←	200 OK INVITE
UPDATE(sendonly)	←	UPDATE(sendonly)
200 OK UPDATE (recvonly)	→	200 OK UPDATE (recvonly)
UPDATE( <b>inactive</b> )	→	UPDATE( <b>inactive</b> )
200 OK UPDATE ( <b>inactive</b> )	←	200 OK UPDATE ( <b>inactive</b> )
BYE	→	BYE
200 OK BYE	←	200 OK BYE

<b>SS_XXSSCH07</b>	<b>NGN reference to: [21]</b>																																																			
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE																																																			
Selection criteria:	<i>Session hold. UPDATE method is used. All the media streams are affected.</i>																																																			
Test purpose:	<p><i>Individual media streams are affected. The media stream was previously set to sendonly.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an UPDATE to resume the session with the attribute "a=" sendrecv in the SDP The IUT after requesting the hold session <i>receives</i> 200 OK final response and optionally the attribute "a=" sendrecv in the SDP. The a=sendrecv attribute is the default value therefore the attribute can be omitted.</p>																																																			
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<b>SS_XXSSCH08</b>	<b>NGN reference to: [21]</b>																																																													
TSS reference:	ServedUser/WithoutAnnounc/WithUPDATE																																																													
Selection criteria:	<i>Session hold. UPDATE method is used. All the media streams are affected.</i>																																																													
Test purpose:	<p><i>All the media streams are affected. The media stream was previously set to sendonly.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an INVITE to resume the session with the attribute "a=" sendrecv in the SDP. The IUT after requesting the hold session <i>receives</i> 200 OK final response and optionally the attribute "a=" sendrecv in the SDP. The a=sendrecv attribute is the default value therefore the attribute can be omitted.</p>																																																													
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "inactive".</li> <li>• Media streams in the SDP.</li> </ul>																																																													
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BYE	→		→	BYE																																																										
200 OK BYE	←		←	200 OK BYE																																																										



### 6.5.2.5.2 Communication Hold without support for UPDATE

SS_XXSSCH 09	NGN reference to: [21]
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE
Selection criteria:	UPDAT method is not supported, the reINVITE is used.
Test purpose:	The media stream was previously set to sendrecv.  Ensure that in the case that UPDATE is not supported in one of the endpoints, and therefore does not have UPDATE in the allow header in the initial INVITE, Communication Hold should be done using a Re-INVITE. The UPDATE is not contained in Allow header in the 200 OK INVITE
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>The media stream was previously set to "sendrecv".</li> <li>Individual media streams.</li> </ul>

SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:			
	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→	INVITE
180 Ringing	←	←	180 Ringing
200 OK INVITE	←	←	200 OK INVITE
INVITE( <b>sendonly</b> )	→	→	INVITE(sendonly)
200 OK INVITE ( <b>rcvonly</b> )	←	←	200 OK INVITE(rcvonly)
BYE	→	→	BYE
200 OK BYE	←	←	200 OK BYE

<b>SS_XXSSCH 10</b>	<b>NGN reference to: [21]</b>		
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE		
Selection criteria:	<i>Session hold. INVITE method is used. Individual media streams are affected.</i>		
Test purpose:	<i>The media stream was previously set to sendrcv.</i>  Ensure that the IUT requesting the hold session stops sending media and sends an INVITE to hold the session. Hold is done containing the SDP with the attribute "a=" sendonly. The IUT after requesting the hold session <i>receives</i> 200 OK final response containing the SDP with the attribute "a=" rcvonly.		
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendrcv".</li> <li>• Individual media streams.</li> </ul>		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:			
	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→	INVITE
180 Ringing	←	←	180 Ringing
200 OK INVITE	←	←	200 OK INVITE
INVITE( <b>sendonly</b> )	→	→	INVITE(sendonly)
200 OK INVITE ( <b>rcvonly</b> )	←	←	200 OK INVITE(rcvonly)
BYE	→	→	BYE
200 OK BYE	←	←	200 OK BYE



<b>SS_XXSSCH 11</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE	
Selection criteria:	<i>Session hold. INVITE method is used. Individual media streams are affected.</i>	
Test purpose:	<p><i>The media stream was previously set to sendrcv.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an INVITE to hold the session.. Hold is done containing the SDP with the attribute "a=" sendonly. The IUT after requesting the hold session <i>receives</i> 200 OK final response containing the SDP with the attribute "a=" recvonly.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendrcv".</li> <li>• Individual media streams.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→ INVITE
180 Ringing	←	← 180 Ringing
200 OK INVITE	←	← 200 OK INVITE
INVITE( <b>sendonly</b> )	→	→ INVITE(sendonly)
200 OK INVITE ( <b>recvonly</b> )	←	← 200 OK INVITE(recvonly)
BYE	→	→ BYE
200 OK BYE	←	← 200 OK BYE

<b>SS_XXSSCH 12</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE	
Selection criteria:	<i>Session hold. INVITE method is used. Individual media streams are affected</i>	
Test purpose:	<p><i>The media stream was previously set to recvonly.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an INVITE to hold the session when . Hold is done containing the SDP with the attribute "a=" inactive. The IUT after requesting the hold session <i>receives</i> 200 OK final response containing the SDP with the attribute "a=" inactive.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "recvonly".</li> <li>• Individual media streams.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→ INVITE
180 Ringing	←	← 180 Ringing
200 OK INVITE	←	← 200 OK INVITE
INVITE (sendonly)	←	← INVITE(sendonly)
200 OK INVITE ( <b>recvonly</b> )	→	→ 200 OK INVITE(recvonly)
INVITE ( <b>inactive</b> )	→	→ INVITE(inactive)
200 OK INVITE ( <b>inactive</b> )	←	← 200 OK INVITE(inactive)
BYE	→	→ BYE
200 OK BYE	←	← 200 OK BYE

<b>SS_XXSSCH 13</b>	<b>NGN reference to: [21]</b>																															
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE																															
Selection criteria:	<i>Session hold. INVITE method is used. Individual media streams are affected.</i>																															
Test purpose:	<p><i>The media stream was previously set to sendonly.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an INVITE to resume the session with the attribute "a=" sendrecv in the SDP. The IUT after requesting the hold session <i>receives</i> 200 OK final response and optionally the attribute "a=" sendrecv in the SDP. The a=sendrecv attribute is the default value therefore the attribute can be omitted</p>																															
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendonly".</li> <li>• Individual media streams.</li> </ul>																															
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<b>SIP UA A</b>	<b>SUT</b>	<b>SIP</b>																														
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INVITE ( <b>sendonly</b> )	→	INVITE(sendonly)																														
200 OK INVITE (recvonly)	←	200 OK INVITE(recvonly)																														
INVITE ( <b>sendrecv</b> )	→	INVITE (sendrecv)																														
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BYE	→	BYE																														
200 OK BYE	←	200 OK BYE																														

<b>SS_XXSSCH 14</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE	
Selection criteria:	<i>Session hold. INVITE method is used. Individual media streams are affected.</i>	
Test purpose:	<p><i>The media stream was previously set to inactive.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an INVITE to resume the session with the attribute "a=" recvonly in the SDP. The IUT after requesting the hold session <i>receives</i> 200 OK final response and optionally the attribute "a=" sendonly in the SDP.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "inactive".</li> <li>• Individual media streams.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→ INVITE
180 Ringing	←	← 180 Ringing
200 OK INVITE	←	← 200 OK INVITE
INVITE(sendonly)	←	← INVITE(sendonly)
200 OK INVITE (rcvonly)	→	→ 200 OK INVITE(rcvonly)
ACK	←	← ACK
INVITE( <b>inactive</b> )	→	→ INVITE(inactive)
200 OK INVITE ( <b>inactive</b> )	←	← 200 OK INVITE(inactive)
INVITE ( <b>rcvonly</b> )	→	→ INVITE (rcvonly)
200 OK INVITE ( <b>sendonly</b> )	←	← 200 OK INVITE (sendonly)
BYE	→	→ BYE
200 OK BYE	←	← 200 OK BYE

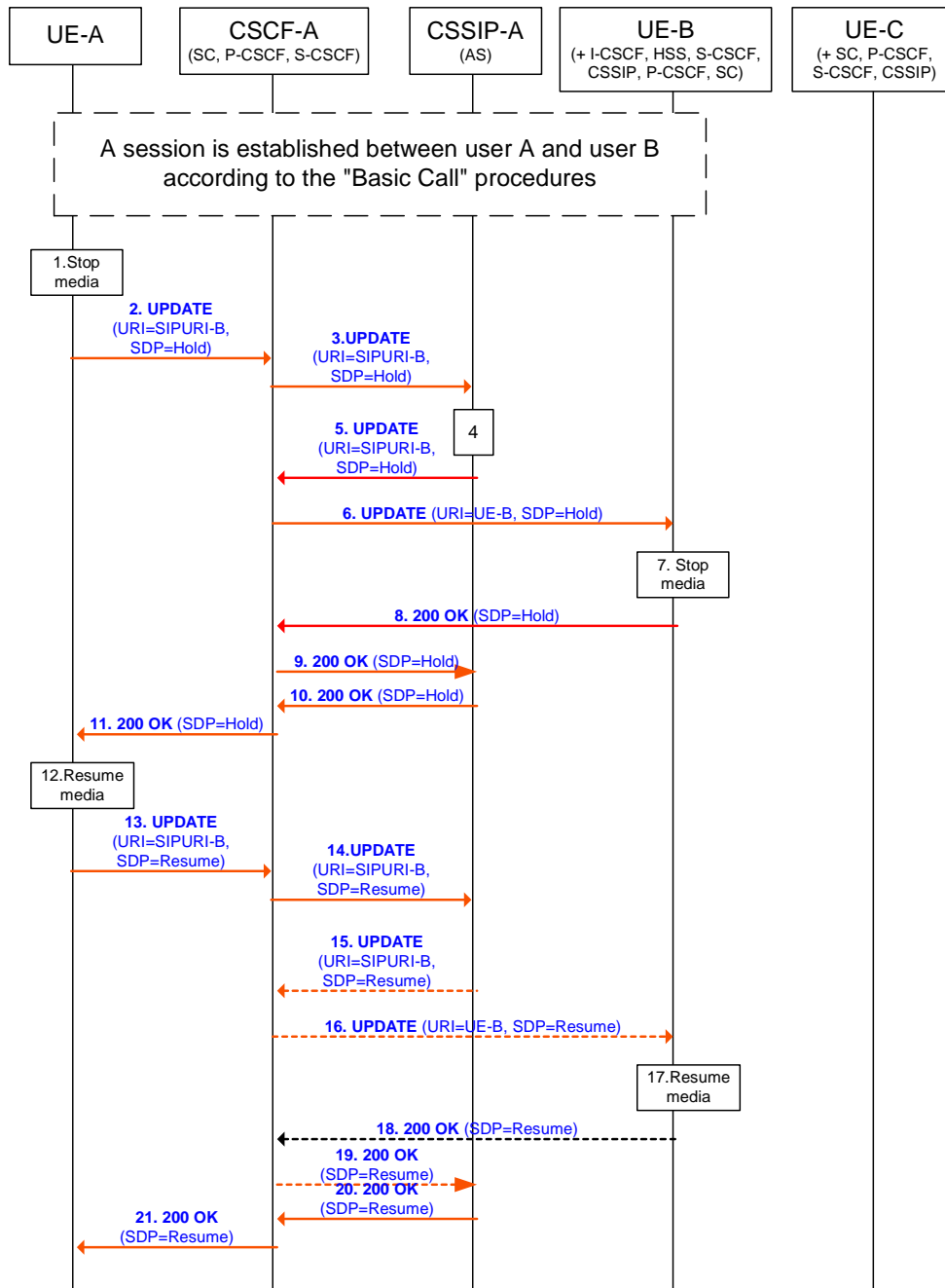
<b>SS_XXSSCH 15</b>	<b>NGN reference to: [21]</b>	
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE	
Selection criteria:	<i>Session hold. INVITE method is used. All the media streams are affected.</i>	
Test purpose:	<p><i>The media stream was previously set to sendrecv.</i></p> <p>Ensure that the IUT requesting the hold session stops sending media and sends an INVITE to hold the session. Hold is done containing the SDP with the attribute "a=" sendonly. The IUT after requesting the hold session receives 200 OK final response containing the SDP with the attribute "a=" recvonly.</p>	
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendrecv".</li> <li>• Media streams in the SDP.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrecv</b> )	→	→ INVITE
180 Ringing	←	← 180 Ringing
200 OK INVITE	←	← 200 OK INVITE
INVITE( <b>sendonly</b> )	→	→ INVITE(sendonly)
200 OK INVITE ( <b>recvonly</b> )	←	← 200 OK INVITE(recvonly)
BYE	→	→ BYE
200 OK BYE	←	← 200 OK BYE

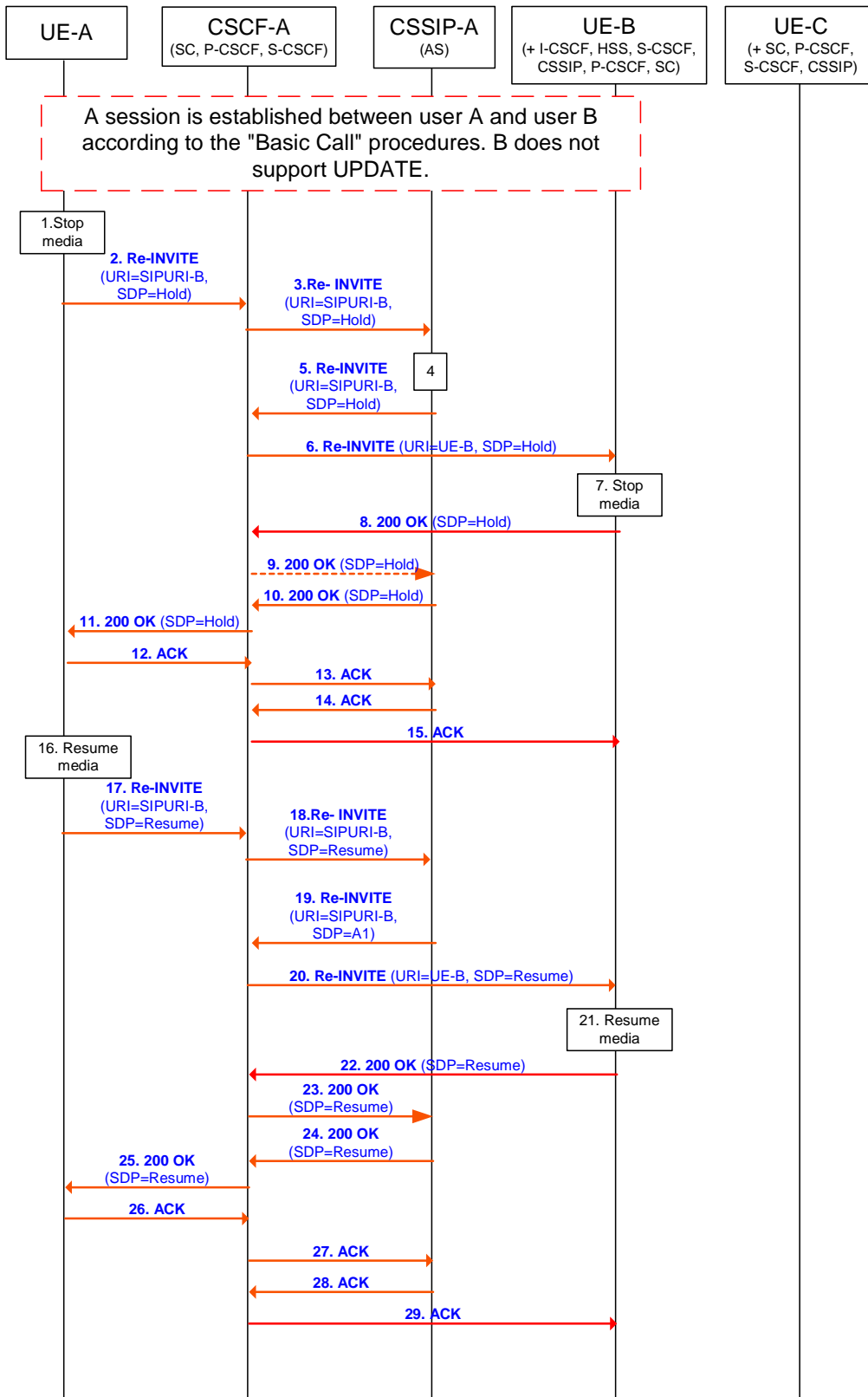
<b>SS_XXSSCH 16</b>	<b>NGN reference to: [21]</b>																																																																		
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE																																																																		
Selection criteria:	<i>Session hold. INVITE method is used. All the media streams.</i>																																																																		
Test purpose:	<p><i>are affected. The media stream was previously set to sendonly.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an INVITE to resume the session with the attribute "a=" sendrecv in the SDP. The IUT after requesting the hold session receives 200 OK final response and optionally the attribute "a=" sendrecv in the SDP. The a=sendrecv attribute is the default value therefore the attribute can be omitted.</p>																																																																		
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<b>SIP UA A</b>		<b>SUT</b>		<b>SIP UA B</b>																																																															
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180 Ringing	←		←	180 Ringing																																																															
200 OK INVITE	←		←	200 OK INVITE																																																															
INVITE (sendonly)	←		←	INVITE(sendonly)																																																															
200 OK INVITE ( <b>recvonly</b> )	→		→	200 OK INVITE(recvonly)																																																															
INVITE( <b>inactive</b> )	→		→	INVITE(inactive)																																																															
200 OK INVITE ( <b>inactive</b> )	←		←	200 OK INVITE(inactive)																																																															
BYE	→		→	BYE																																																															
200 OK BYE	←		←	200 OK BYE																																																															

<b>SS_XXSSCH 17</b>	<b>NGN reference to: [21]</b>																															
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE																															
Selection criteria:	<i>Session hold. INVITE method is used. All the media streams are affected.</i>																															
Test purpose:	<p><i>The media stream was previously set to sendonly.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an INVITE to resume the session with the attribute "a=" sendrecv in the SDP. The IUT after requesting the hold session <i>receives</i> 200 OK final response and optionally the attribute "a=" sendrecv in the SDP. The a=sendrecv attribute is the default value therefore the attribute can be omitted.</p>																															
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "sendonly".</li> <li>• Media streams in the SDP.</li> </ul>																															
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<b>SS_XXSSCH 18</b>	<b>NGN reference to: [21]</b>																																								
TSS reference:	ServedUser/WithoutAnnounc/WithoutUPDATE																																								
Selection criteria:	<i>Session hold. INVITE method is used. All the media streams are affected.</i>																																								
Test purpose:	<p><i>The media stream was previously set to inactive.</i></p> <p>Ensure that the IUT is requesting to <b>resume</b> the session with user B the UE-A starts sending media and sends an INVITE to resume the session with the attribute "a=" recvonly in the SDP. The IUT after requesting the hold session <i>receives</i> 200 OK final response and optionally the attribute "a=" sendonly in the SDP.</p>																																								
Precondition:	<ul style="list-style-type: none"> <li>• A session was established between user A and user B according to the "basic Call" procedures.</li> <li>• The media stream was previously set to "inactive".</li> <li>• Media streams in the SDP.</li> </ul>																																								
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## 6.5.2.5.3 Communication with announcements

## 6.5.2.5.3.1 Communication Hold with support for UPDATE

SS_XXSSCH 19	NGN reference to: [21]																												
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																												
Selection criteria:	<i>The remote user is put on hold, an announcement starts to the held user. The UPDATE method is used. Individual media streams are affected.</i>																												
Test purpose:	Ensure that when the remote user is set on HOLD, an announcement is started to the remote UE. An UPDATE is sent to the remote user B with SDP a=sendonly.																												
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>Individual media streams.</li> </ul>																												
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BYE	→	→ BYE																											
200 OK BYE	←	← 200 OK BYE																											

SS_XXSSCH 20	NGN reference to: [21]																																					
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																																					
Selection criteria:	The announcement is stopped after the held user puts the media stream on hold. The UPDATE method is used. Individual media streams are affected.																																					
Test purpose:	Ensure that no announcement is started to any user if the media stream was previously put on hold by user A is subsequently put on hold by user B. An UPDATE is sent to User A with a SDP a=inactive.																																					
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>Individual media streams.</li> </ul>																																					
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<b>SS_XXSSCH 21</b>	<b>NGN reference to: [21]</b>																																					
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																																					
Selection criteria:	The announcement is stopped after retrieve. Individual media streams are affected.																																					
Test purpose:	Ensure that the announcement started to user B is stopped when the user B is retrieved by user A. An UPDATE is sent with SDP a=sendrecv. The normal conversation shall apply between user A and user B. The a=sendrecv attribute is the default value therefore the attribute can be omitted.																																					
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SS_XXSSCH 22	NGN reference to: [21]																																														
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<b>Announcement to UE B</b>																																															
BYE	→	BYE																																													
200 OK BYE	←	200 OK BYE																																													

SS_XXSSCH 23	NGN reference to: [21]																															
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																															
Selection criteria:	<i>The emote user is put on hold, an announcement starts to the held user. The UPDATE method is used. All the media streams are affected.</i>																															
Test purpose:	Ensure that when the remote user is set on HOLD, an announcement is started to the remote UE. An UPDATE is sent to the remote user with SDP a=sendonly.																															
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>Media streams in the SDP.</li> </ul>																															
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BYE	→	BYE																														
200 OK BYE	←	200 OK BYE																														

SS XXSSCH 24	NGN reference to: [21]																																					
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																																					
Selection criteria:	<i>The announcement is stopped after the held user puts the media stream on hold. The UPDATE method is used. All the media streams are affected.</i>																																					
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BYE	→	→ BYE																																				
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SS XXSSCH 25	NGN reference to: [21]																																					
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																																					
Selection criteria:	<i>Announcement is stopped after retrieve. All the media streams are affected.</i>																																					
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BYE	→	→ BYE																																				
200 OK BYE	←	← 200 OK BYE																																				

SS_XXSSCH 26	NGN reference to: [21]																																								
TSS reference:	ServedUser/WithAnnounc/WithUPDATE																																								
Selection criteria:	<i>Announcement is started to user B when user B retrieves the connection. All the media streams are affected.</i>																																								
Test purpose:	Ensure that when user B retrieves the connection and is still held by the user A (was previously set on hold by user A), an UPDATE with SDP a=recvonly is sent to user A, the announcement is started to user B.																																								
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BYE	→	→ BYE																																							
200 OK BYE	←	← 200 OK BYE																																							

## 6.5.2.5.3.2

## Communication Hold without support for UPDATE

SS_XXSSCH 27	NGN reference to: [21]	
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE	
Selection criteria:	<i>The emote user is put on hold, an announcement starts to the held user. The INVITE method is used. Individual media streams are affected.</i>	
Test purpose:	Ensure that when the remote user is set on HOLD, an announcement is started to the remote UE. An INVITE is sent to the remote user with SDP a=sendonly.	
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>Individual media streams.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→ INVITE
180 Ringing	←	← 180 Ringing
200 OK INVITE	←	← 200 OK INVITE
INVITE(sendonly)	→	→ INVITE ( <b>sendonly</b> )
200 OK INVITE (recvonly)	←	← 200 OK INVITE ( <b>recvonly</b> )
<b>Announcement to UE B</b>		
BYE	→	→ BYE
200 OK BYE	←	← 200 OK BYE

SS_XXSSCH 28	NGN reference to: [21]	
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE	
Selection criteria:	<i>The announcement is stopped after the held user puts the media stream on hold. The INVITE method is used. Individual media streams are affected.</i>	
Test purpose:	Ensure that no announcement is started to any user if the media stream was previously put on hold by user A is subsequently put on hold by user B. An INVITE is sent to User A with a SDP a=inactive.	
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>Individual media streams.</li> </ul>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		
<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
INVITE ( <b>sendrcv</b> )	→	→ INVITE
180 Ringing	←	← 180 Ringing
200 OK INVITE	←	← 200 OK INVITE
INVITE(sendonly)	→	→ INVITE ( <b>sendonly</b> )
200 OK INVITE (recvonly)	←	← 200 OK INVITE(recvonly)
<b>Announcement to UE B</b>		
INVITE (inactive)	←	← INVITE ( <b>inactive</b> )
200 OK INVITE (inactive)	→	→ 200 OK INVITE ( <b>inactive</b> )
<b>Media sream is stopped</b>		
BYE	→	→ BYE
200 OK BYE	←	← 200 OK BYE



SS_XXSSCH 29	NGN reference to: [21]																																					
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE																																					
Selection criteria:	<i>Announcement is stopped after retrieve. The INVITE method is used. Individual media streams are affected.</i>																																					
Test purpose:	Ensure that the announcement started to user B is stopped when the user B is retrieved by user A. An INVITE is sent with SDP a=sendrecv. The normal conversation shall apply between user A and user B. The a=sendrecv attribute is the default value therefore the attribute can be omitted.																																					
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BYE	→	→ BYE																																				
200 OK BYE	←	← 200 OK BYE																																				

<b>SS_XXSSCH 30</b>	<b>NGN reference to: [21]</b>																																								
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE																																								
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SS_XXSSCH 31	NGN reference to: [21]																												
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE																												
Selection criteria:	<i>The emote user is put on hold, an announcement starts to the held user. The INVITE method is used. All the media streams are affected.</i>																												
Test purpose:	Ensure that when the remote user is set on HOLD, an announcement is started to the remote UE. An INVITE is sent to the remote user with SDP a=sendonly.																												
Precondition:	<ul style="list-style-type: none"> <li>A session was established between user A and user B according to the "basic Call" procedures.</li> <li>Media streams in the SDP.</li> </ul>																												
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SS_XXSSCH 32	NGN reference to: [21]																																					
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE																																					
Selection criteria:	<i>The announcement is stopped after the held user puts the media stream on hold. The INVITE method is used. All the media streams are affected.</i>																																					
Test purpose:	Ensure that no announcement is started to any user if the media stream was previously put on hold by user A is subsequently put on hold by user B. An INVITE is sent to User A with a SDP a=inactive.																																					
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TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE																																					
Selection criteria:																																						
Test purpose:	<p><i>Announcement is stopped after retrieve. The INVITE method is used. All the media streams are affected.</i></p> <p>Ensure that the announcement started to user B is stopped when the user B is retrieved by user A. An INVITE is sent with SDP a=sendrecv. The normal conversation shall apply between user A and user B. The a=sendrecv attribute is the default value therefore the attribute can be omitted.</p>																																					
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SS_XXSSCH 32	NGN reference to: [21]																																																				
TSS reference:	ServedUser/WithAnnounc/WithoutUPDATE																																																				
Selection criteria:	<i>Announcement is started to user B when user B retrieves the connection. The INVITE method id used. All the media streams are affected.</i>																																																				
Test purpose:	Ensure that when user B retrieves the connection and is still held by the user A (was previously set on hold by user A), an INVITE with SDP a=recvonly is sent to user A, the announcement is started to user B.																																																				
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## 6.5.2.5.3.3

The early dialogue is established

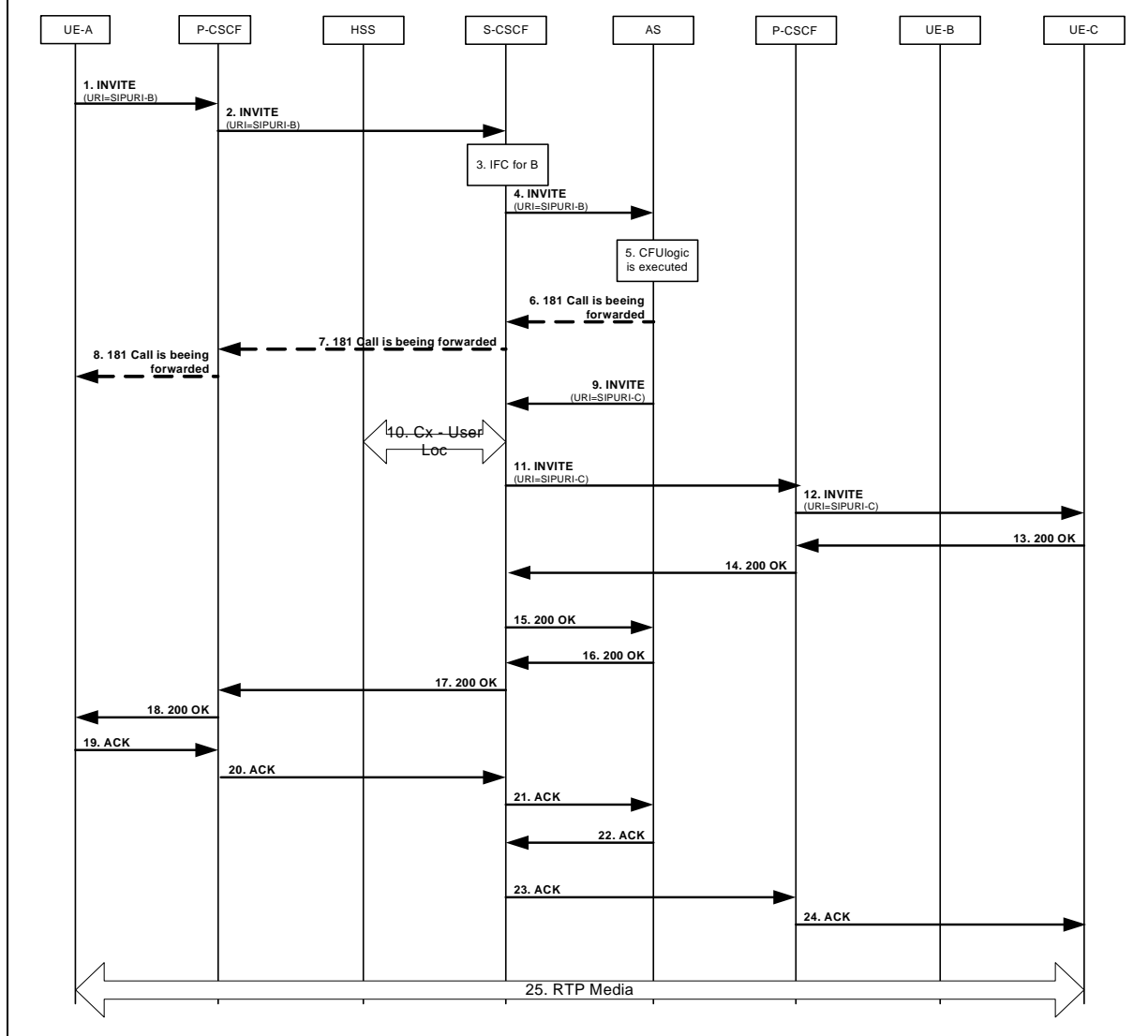
SS_XXSSCH 33	NGN reference to: [21]																												
TSS reference:	ServedUser/RingingState																												
Selection criteria:																													
Test purpose:	<i>The caller puts the media stream on hold; the early dialogue is established.</i> Ensure that the IUT requesting to <b>hold the session</b> sends an UPDATE to hold the session. Hold is done containing the SDP with the attribute "a=" <b>sendonly</b> . The IUT after requesting the hold session <i>receives a 200 OK (UPDATE) message</i> containing the SDP with the attribute "a=" <b>reconly</b> .																												
Precondition:	Early dialogue was established between user A and user B according to the "basic Call" procedures.																												
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition																												
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200 OK BYE	←	200 OK BYE																											

<b>SS_XXSSCH 34</b>	<b>NGN reference to: [21]</b>		
TSS reference:	ServedUser/RingingState		
Selection criteria:			
Test purpose:	<p><i>The caller retrieves the media stream; the early dialogue is established.</i></p> <p>Ensure that the IUT is requesting to <b>resume the session</b> with user B the UE-A starts sending media and sends a UPDATE to resume the session with the supported codec in the SDP. The IUT after requesting the hold session receives a <i>200 OK (UPDATE)</i> message containing the SDP with the supported codec. The a=sendrecv attribute is the default value therefore the attribute can be omitted.</p>		
Precondition:	session was established between user A and user B according to the "basic Call" procedures		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.		
Comments:			
	<b>SIP UA A</b>	<b>SUT</b>	<b>SIP UA B</b>
	INVITE ( <b>sendrecv</b> )	→	INVITE
	180 Ringing	←	180 Ringing
	UPDATE( <b>sendonly</b> )	→	UPDATE(sendonly)
	200 OK UPDATE ( <b>recvonly</b> )	←	200 OK UPDATE (recvonly)
	UPDATE( <b>sendrecv</b> )	→	UPDATE(sendrecv)
	200 OK UPDATE ( <b>sendrecv</b> )	←	200 OK UPDATE (sendrecv)
	BYE	→	BYE
	200 OK BYE	←	200 OK BYE

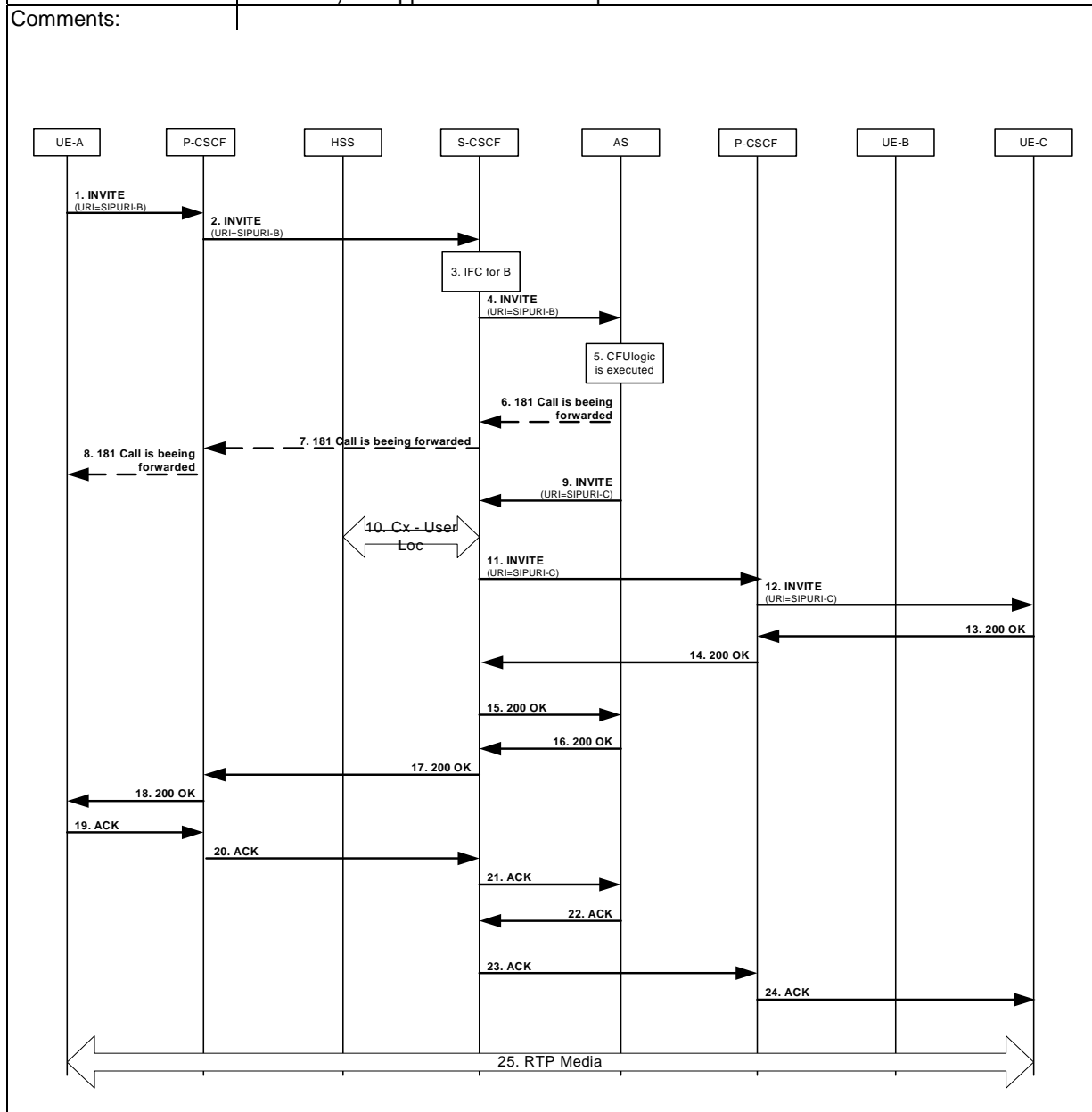
6.5.2.6 CFU

<b>SSS_XXSSCFU 01</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU.
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding unconditional supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C. Ensure that in the active call state the voice transfer on the media channels is performed correctly (e.g. testing QoS parameters).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:

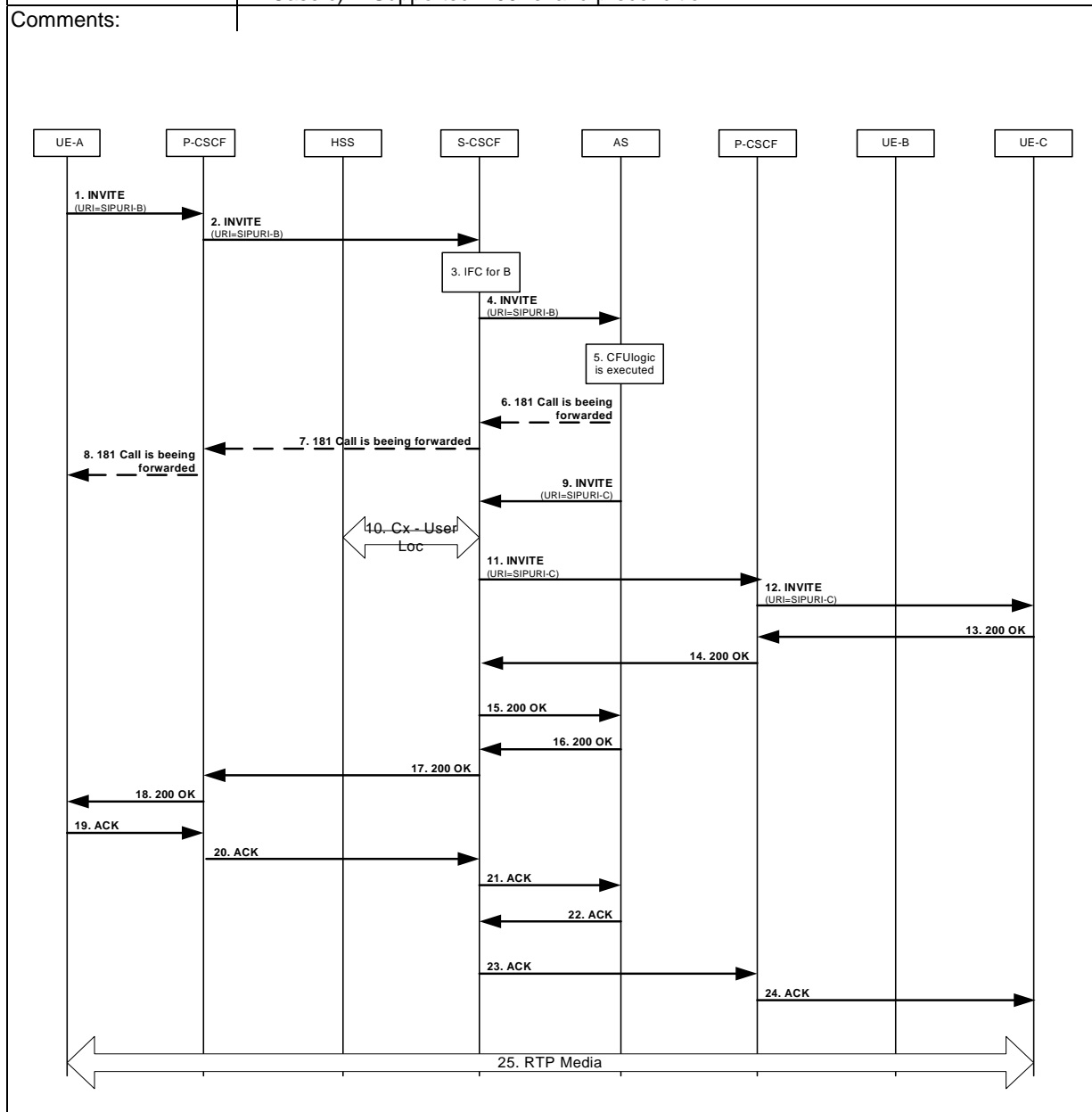


<b>SSS XXSSCFU 02</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU
Configuration	The user A and the user C are in network N1. The user B is provided with CFU.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =Yes).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding unconditional supported</li> <li>• CF Notifications supported</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition

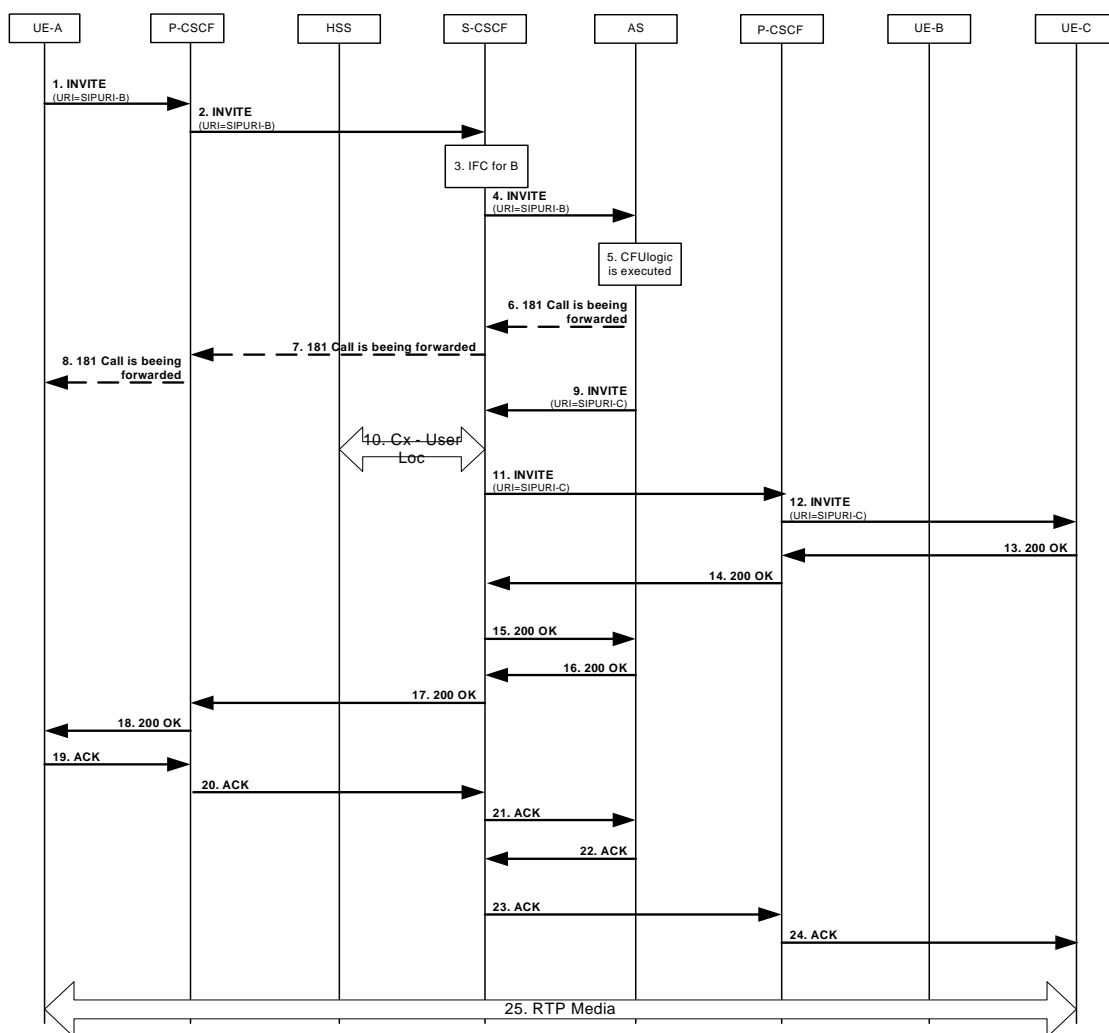




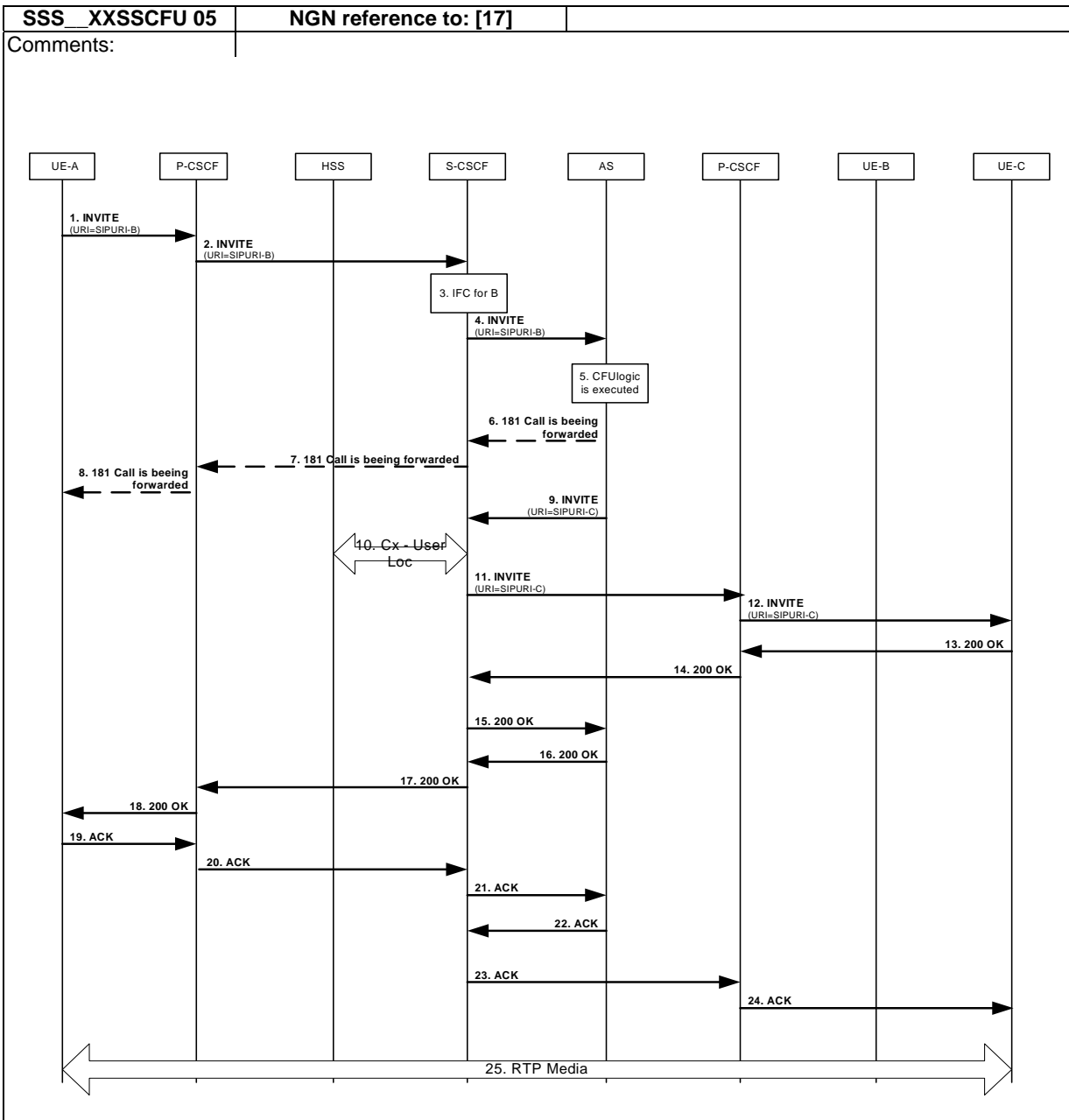
<b>SSS XXSSCFU 03</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU
Configuration	The user A and the user C are in network N1. The user B is provided with CFU.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =No).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding unconditional supported.</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.



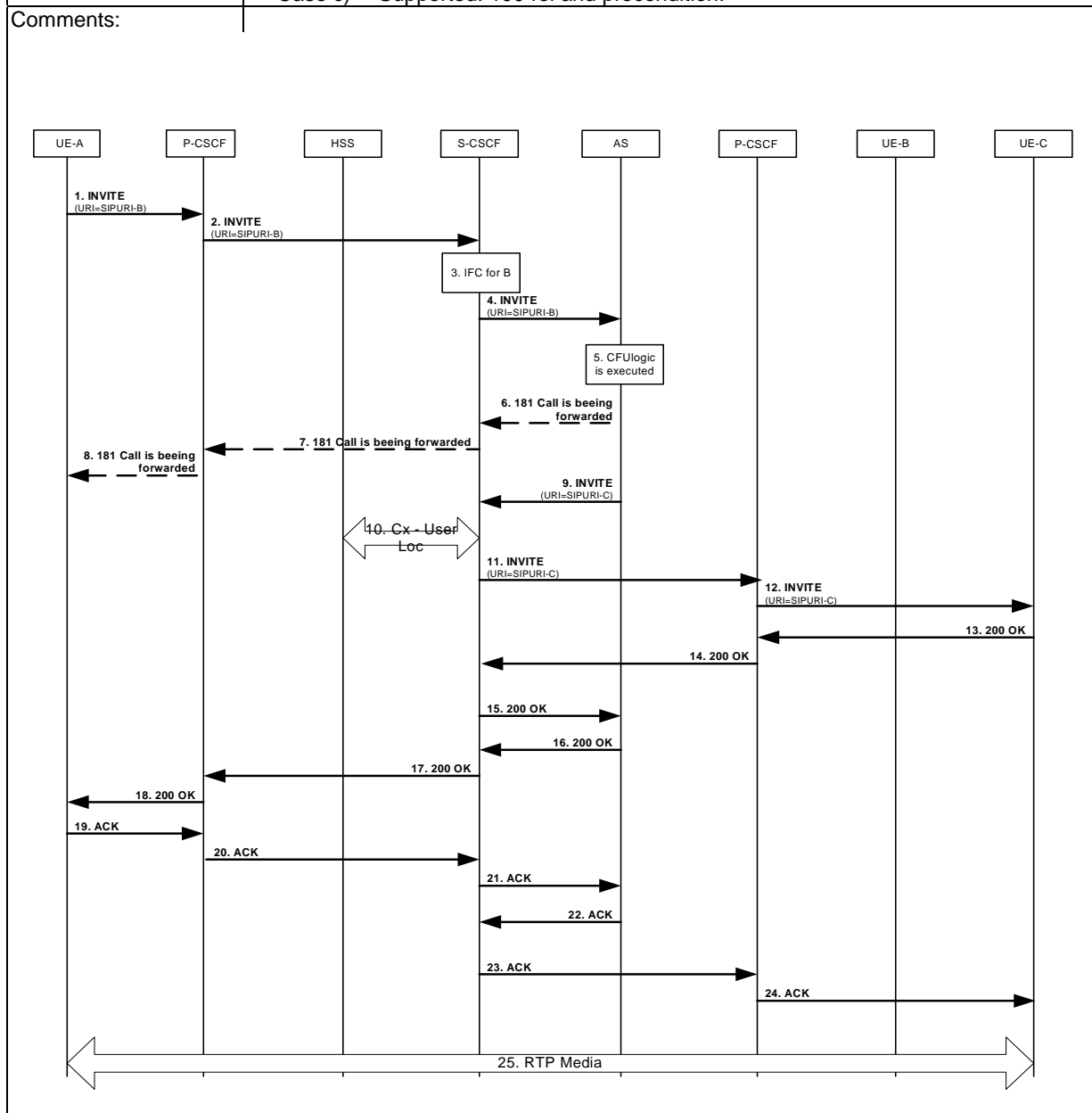
<b>SSS_XXSSCFU 04</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding unconditional supported.</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p>User B is not notified of call diversion.</p>
SIP Parameter values:	<p>Dial string parameters options=PIXIT                  TYPE_SDP= PIXIT;                  PIXIT for supported header:                  Case a) No 100 rel;                  Case b) Supported: 100 rel;                  Case c) Supported: 100 rel and precondition.</p>
Comments:	



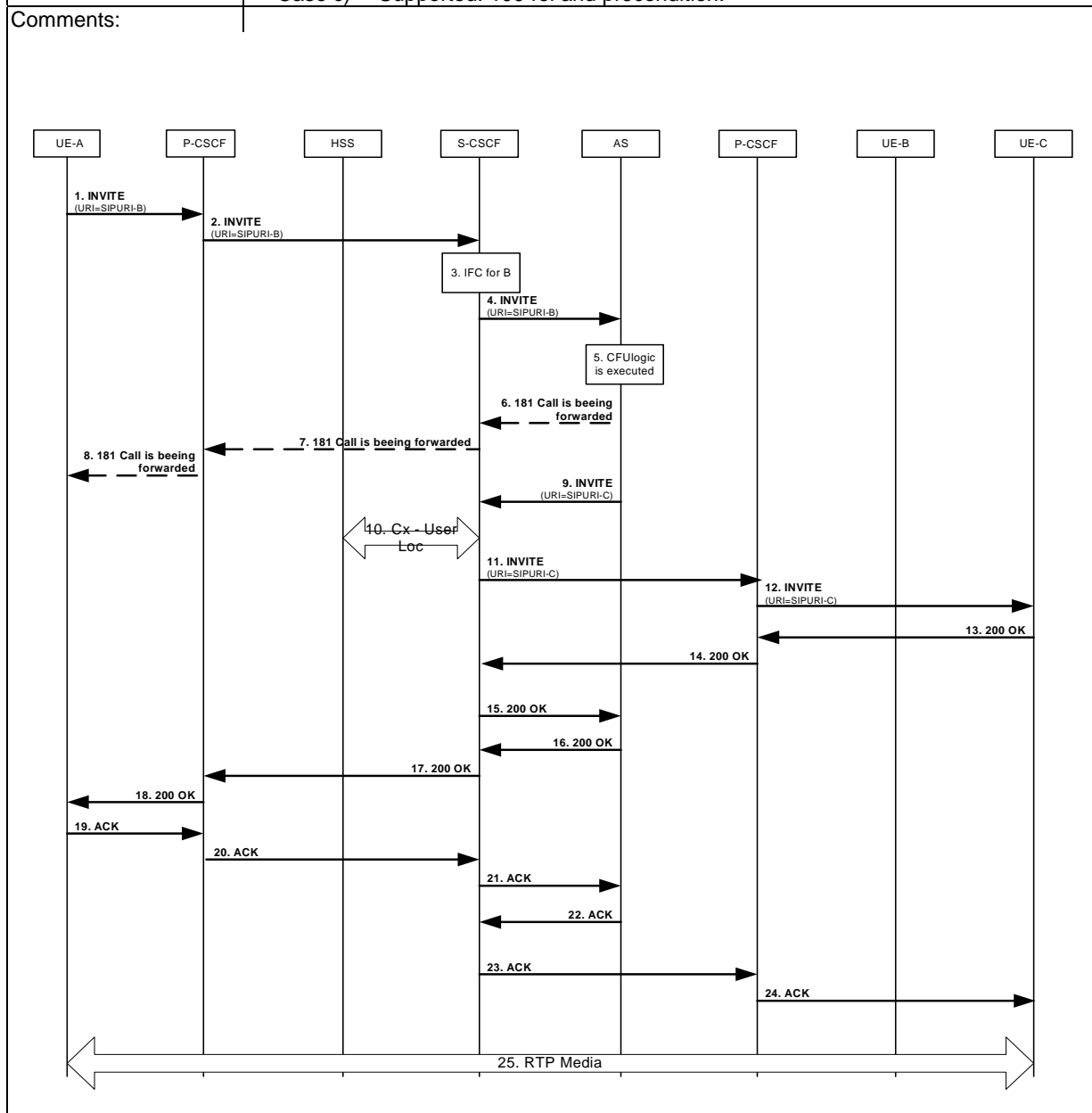
<b>SSS_XXSSCFU 05</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU	
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CFU.</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no).</p>	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding unconditional supported.</li> <li>• CF Notifications supported.</li> </ul>	
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is not notified of call diversion and not informed of the diverted-to number (user C has TIP) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT  TYPE_SDP= PIXIT;  PIXIT for supported header:  Case a) No 100 rel;  Case b) Supported: 100 rel;  Case c) Supported: 100 rel and precondition.</p>	



<b>SSS_XXSSCFU 06</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU
Configuration	The user B is in network N2 and is provided with CFU
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding unconditional supported.</li> <li>• user C is user determined user busy.</li> </ul>
Test purpose:	To verify that a call is released correctly if <b>CFU was not successful</b> .  User A calls user B, the call is forwarded to user C who is <b>user</b> determined user busy.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.



<b>SSS_XXSSCFU 07</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU
Configuration	The user B is in network N2 and is provided with CFU
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding unconditional supported</li> <li>• user C is network determined user busy</li> </ul>
Test purpose:	To verify that a call is released correctly if CFU was not successful.  User A calls user B, the call is forwarded to user C who is <b>network</b> determined user busy.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.



<b>SSS_XXSSCFU 08</b>	<b>NGN reference to: TS 183 004 [17] clause 4.5.2.6.3</b>																																																					
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU																																																					
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Test purpose:	<p><i>The served user subscribes to the CFU simulation service; originating user is notified. Additionally an announcement is played.</i></p> <p>When Communication Diversion occurs and if the notification procedures of the originating user is supported then a 181 (Call Is Being Forwarded) response shall be sent towards the originating user. Additional the AS initiates an announcement to be included towards the calling user in order to inform about the diversion. Announcements shall be played according to procedures as are described in TS 183 028 [18].</p>																																																					
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition. 181 Call is Being Forwarded: P-Asserted-Identity SIP#2.																																																					
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Test purpose:	<p><i>The served user subscribes to the CFU simulation service; Indication of communication diversion to the diverting user using the MESSAGE request triggered by a timer.</i></p> <p>Ensure that when the diverting user is registering the AS sends a MESSAGE request including the information where the call is diverted to. The MESSAGE request that is be sent due to an timer value that can be provided by the user.</p>																																																									
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Test purpose:	<p><i>The served user subscribes to the CFU simulation service; Indication of communication diversion to the diverting user using the MESSAGE request when a new outgoing communication is requested.</i></p> <p>Ensure that a diverting user will be informed with a MESSAGE request after the diverting user has initiated a new outgoing communication the information where the call is diverted to.</p>																																																														
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Test purpose:	<p><i>The served user subscribes to the CFU simulation service; Indication of communication diversion to the diverting user using a voicemail or mail system.</i></p> <p>Ensure that when communication diversion is performed, the AS sends a <b>Voicemail or Message mail system</b> request including the information where the call is diverted to.</p>																																													
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<b>SSS__XXSSCFU 12</b>	<b>NGN reference to: TS 183 004 [17] clause 4.5.2.6.3</b>																																													
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFU																																													
Configuration	The user B is in network N2 and is provided with CFU.																																													
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Test purpose:	<p><i>The served user subscribes to the CFU simulation service; Indication of communication diversion to the diverting user using a voicemail or mail system requested by a timer.</i></p> <p>Ensure that when communication diversion is performed, the AS sends a Voicemail or Message mail system request including the information where the call is diverted to. The Voicemail or Message mail system request that is be sent due to a timer value that can be provided by the user.</p>																																													
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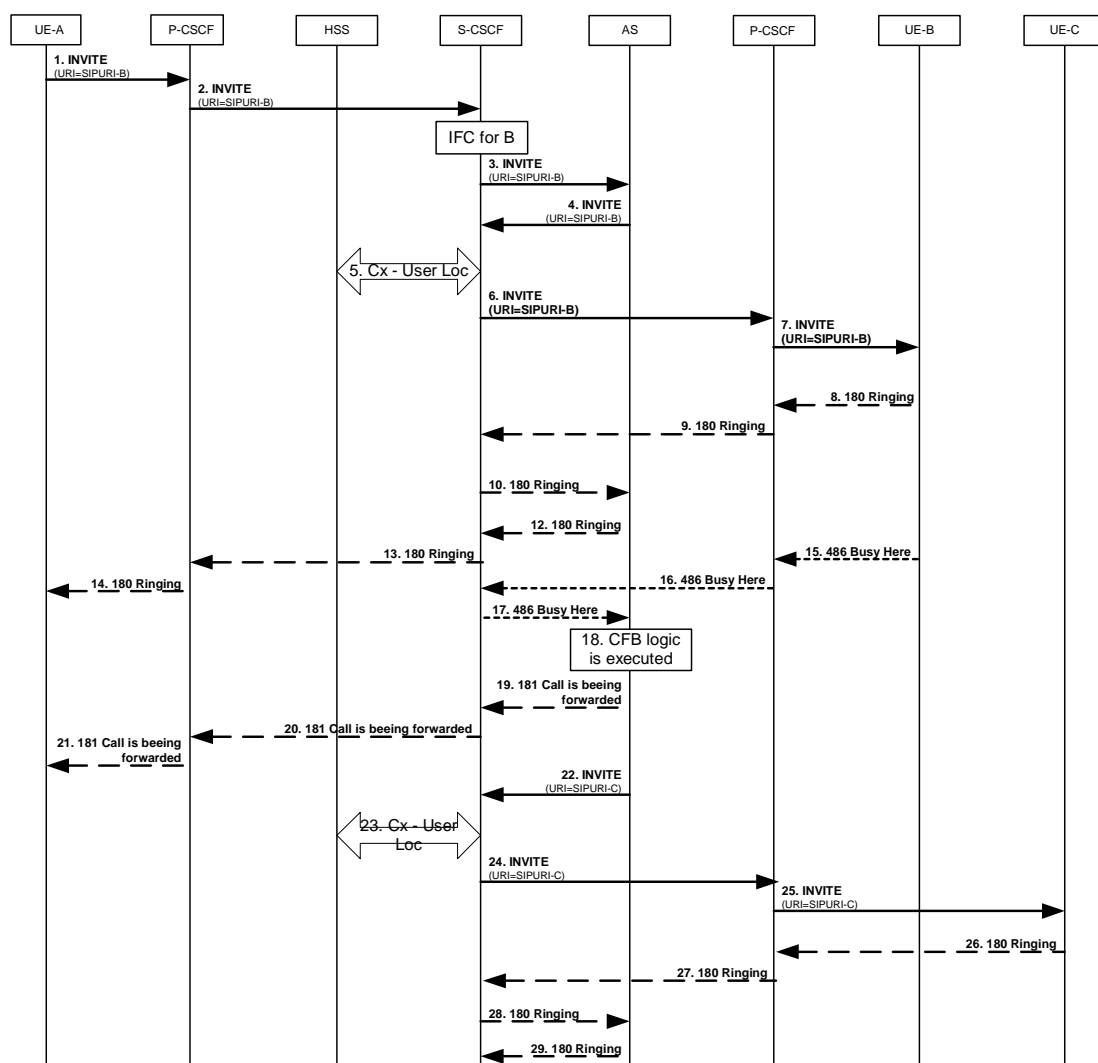
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<b>SSS__XXSSCFU 14</b>	<b>NGN reference to: TS 183 004 [17] clause 4.5.2.6.3</b>																																																														
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Test purpose:	<p><i>The served user subscribes to the CFU simulation service; Indication of a new communication diversion to the diverting user using a voicemail or mail system.</i></p> <p>Ensure that a diverting user will be informed with a Voicemail or Message mail system request after the diverting user has initiated a new outgoing communication the information where the call is diverted to.</p>																																																														
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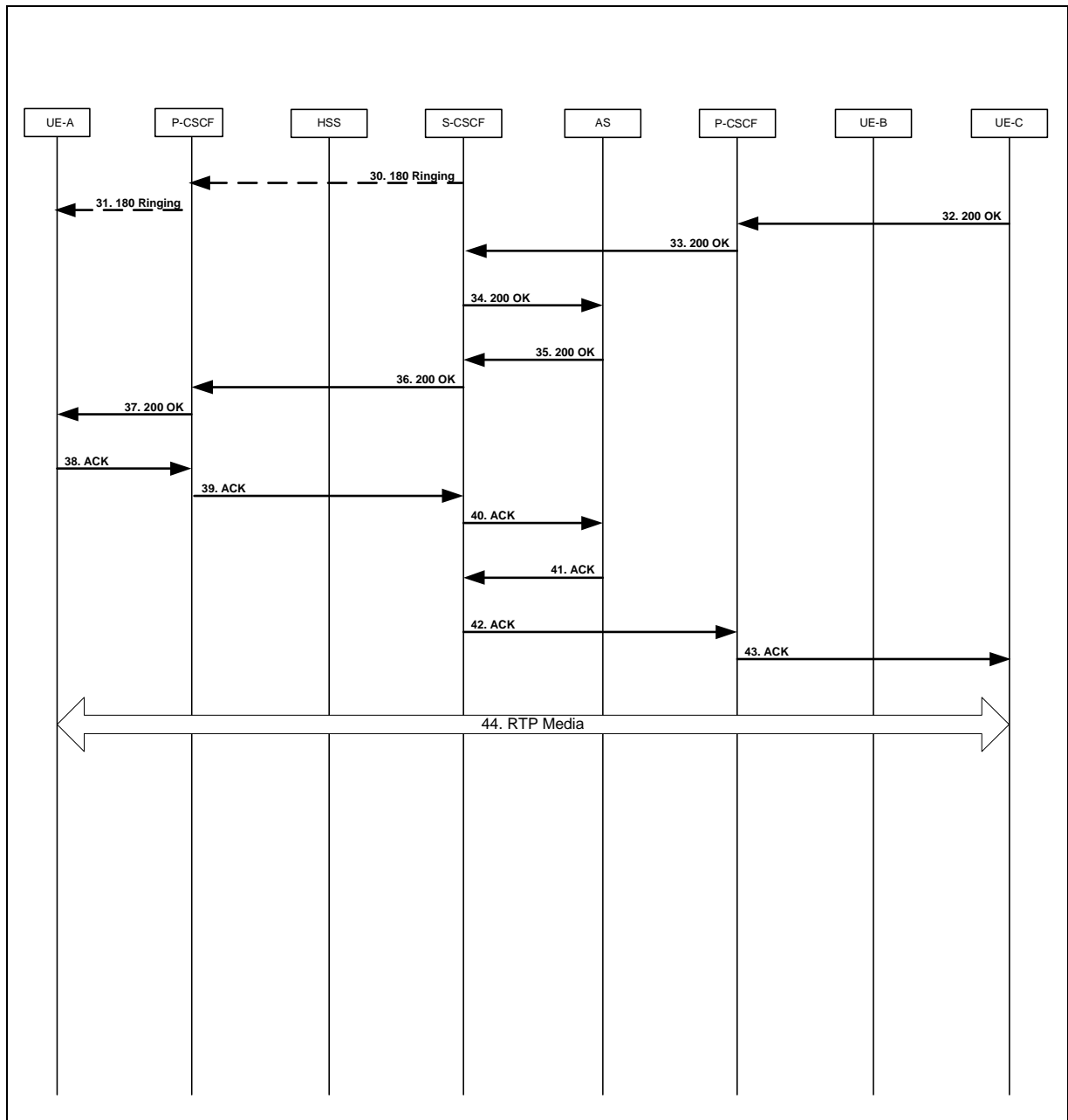
6.5.2.7 CFB

<b>SSS_XXSSCFB 01</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFB (user determined).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C. Ensure that in the active call state the voice transfer on the media channels is performed correctly (e.g. testing QoS parameters).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:

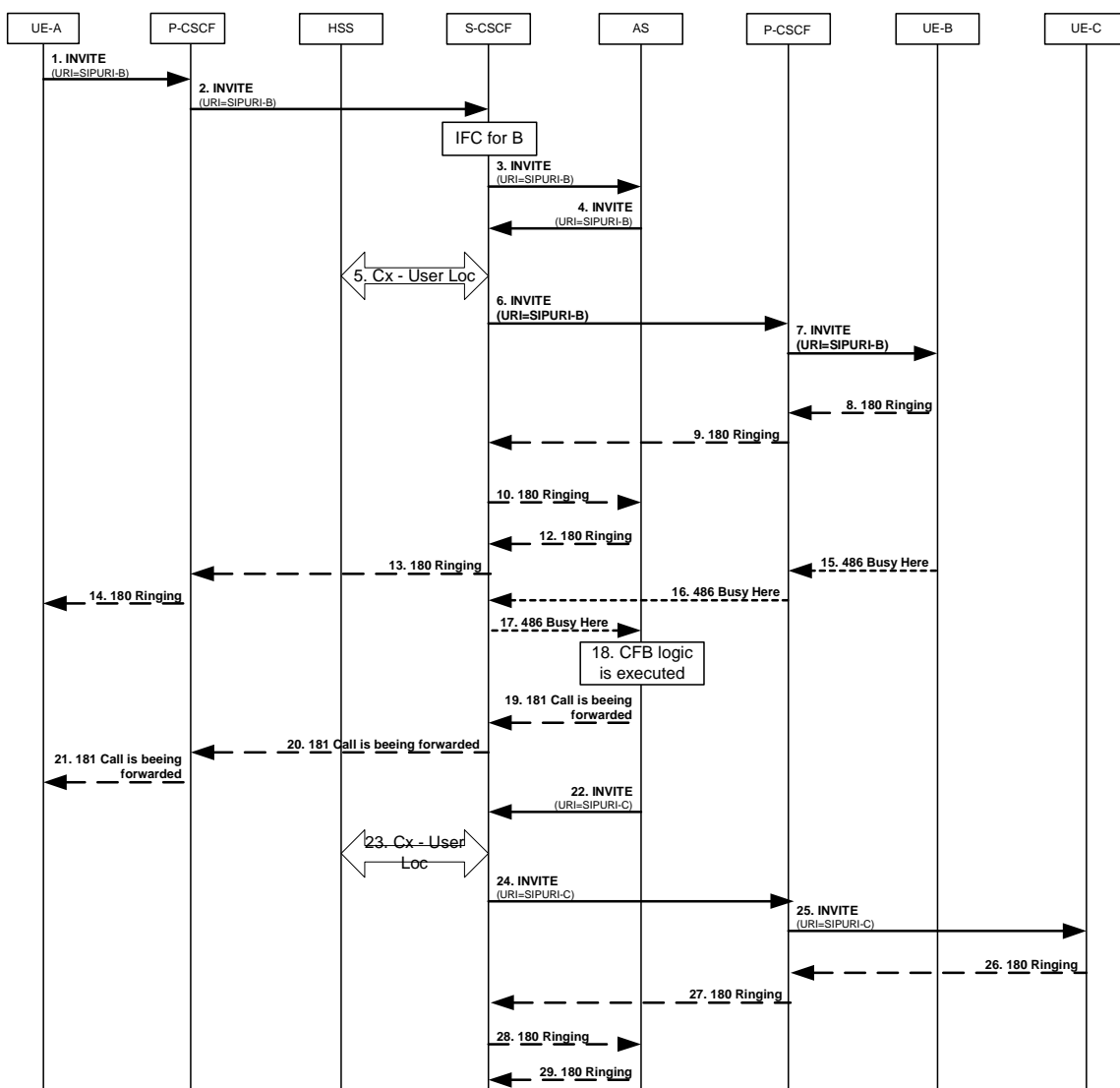


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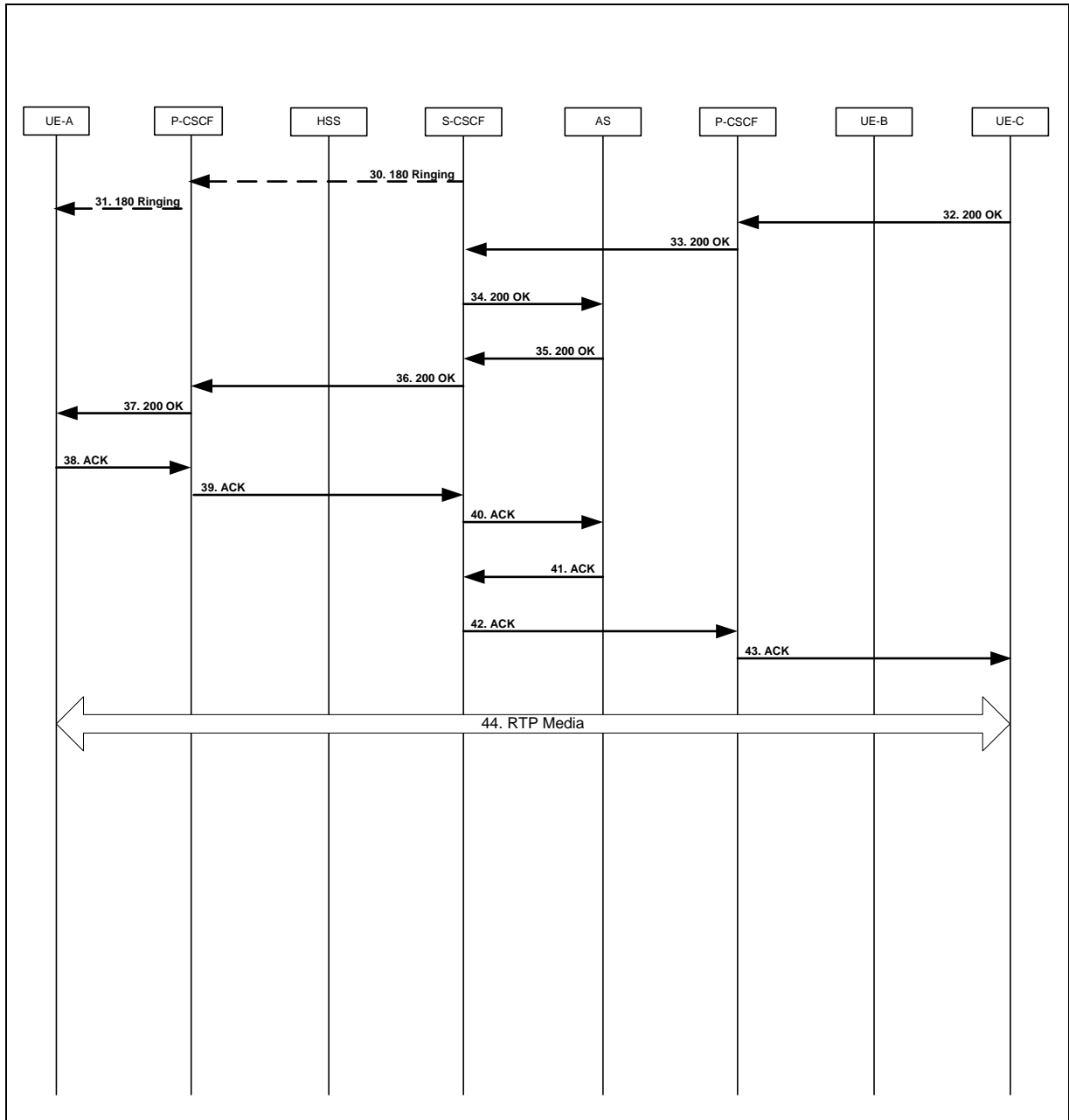
<b>SSS_XXSSCFB 02</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFB (network determined)
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding busy supported</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:



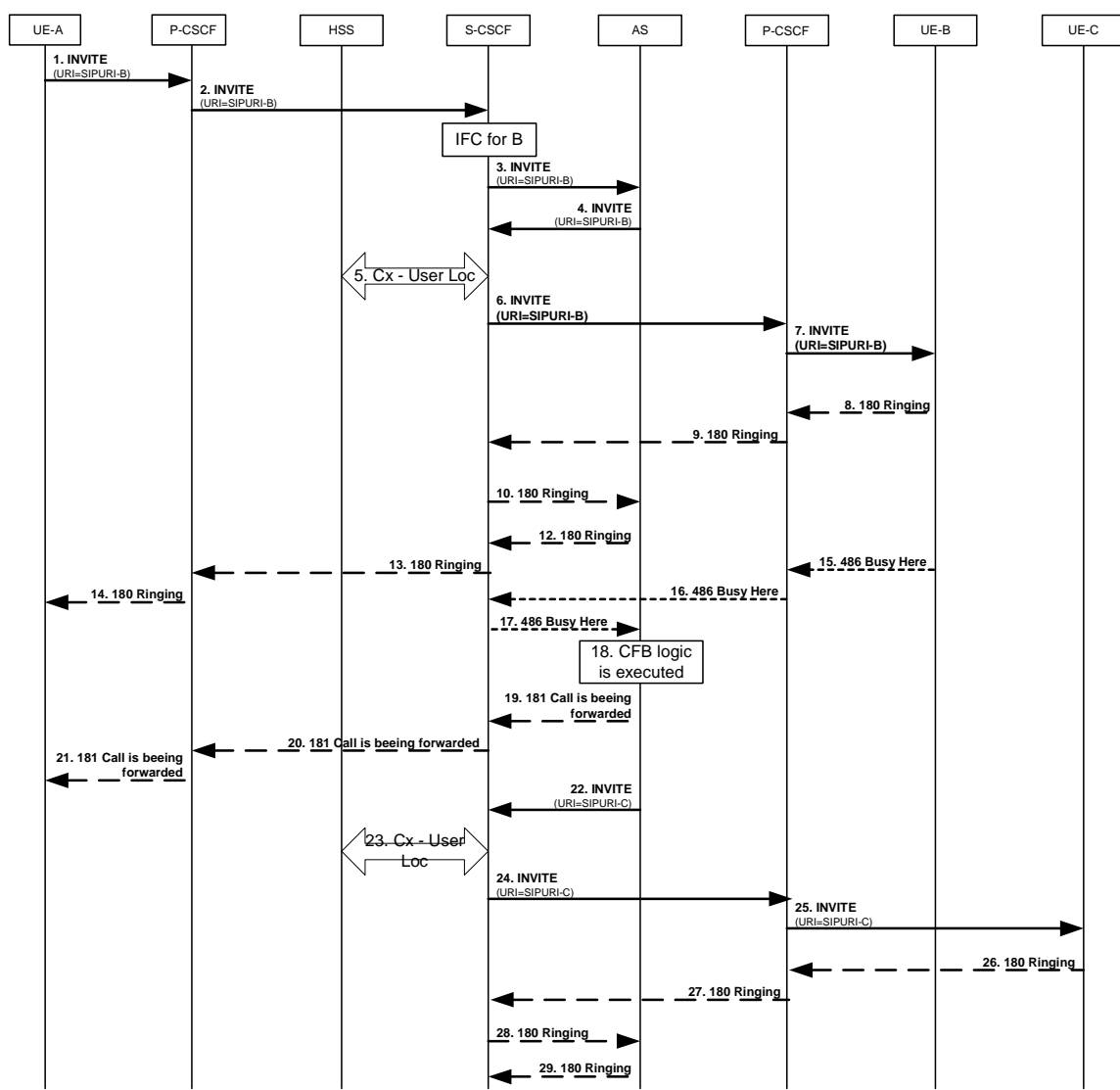
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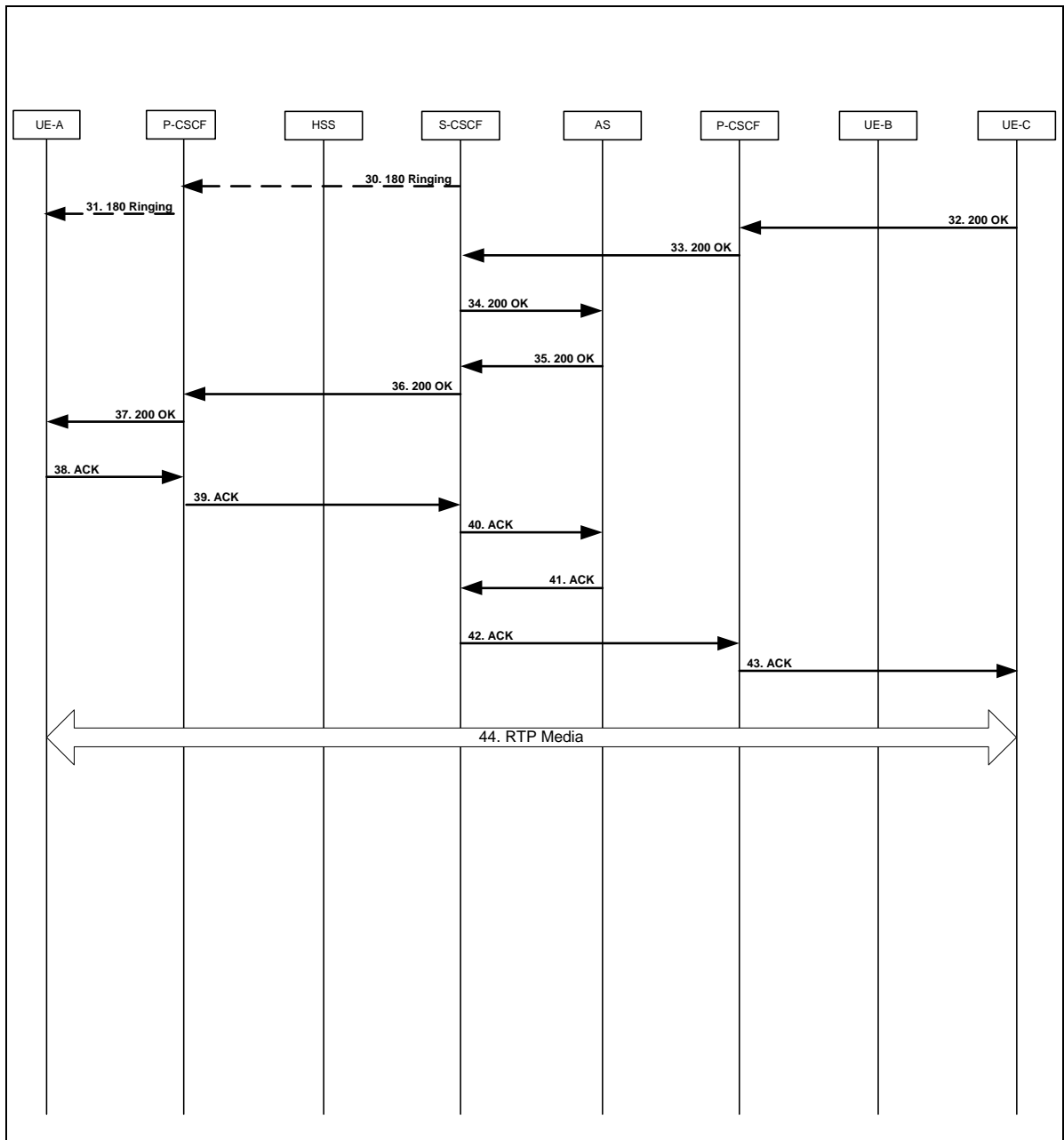


<b>SSS_XXSSCFB 03</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is provided with CFB.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =Yes).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding busy supported (user determined)</li> <li>• CF Notifications supported</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has TIP) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition

Comments:

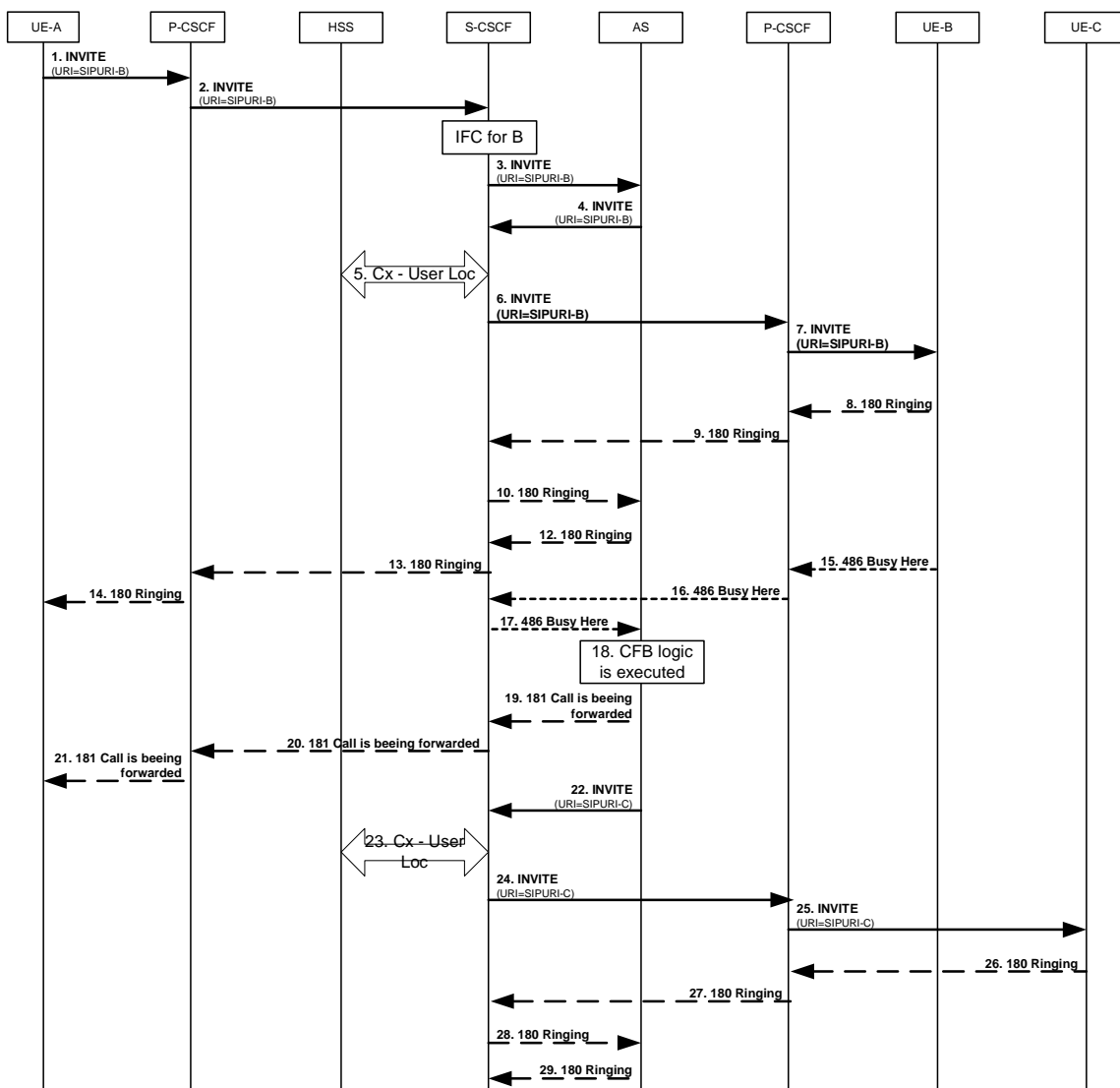


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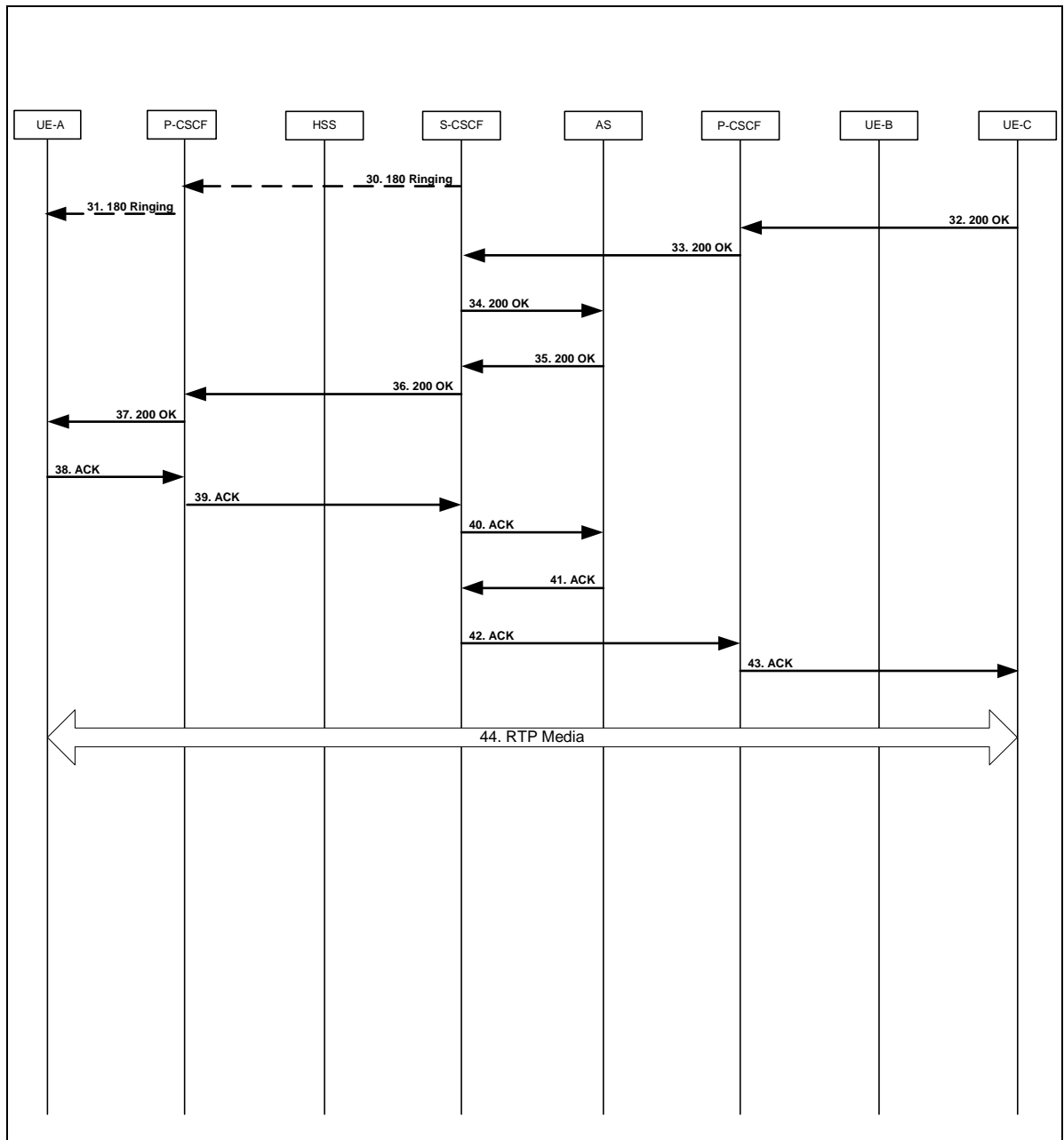


<b>SSS XXSSCFB 04</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is provided with CFB.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =No).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported (user determined).</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has TIP) and user C is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:

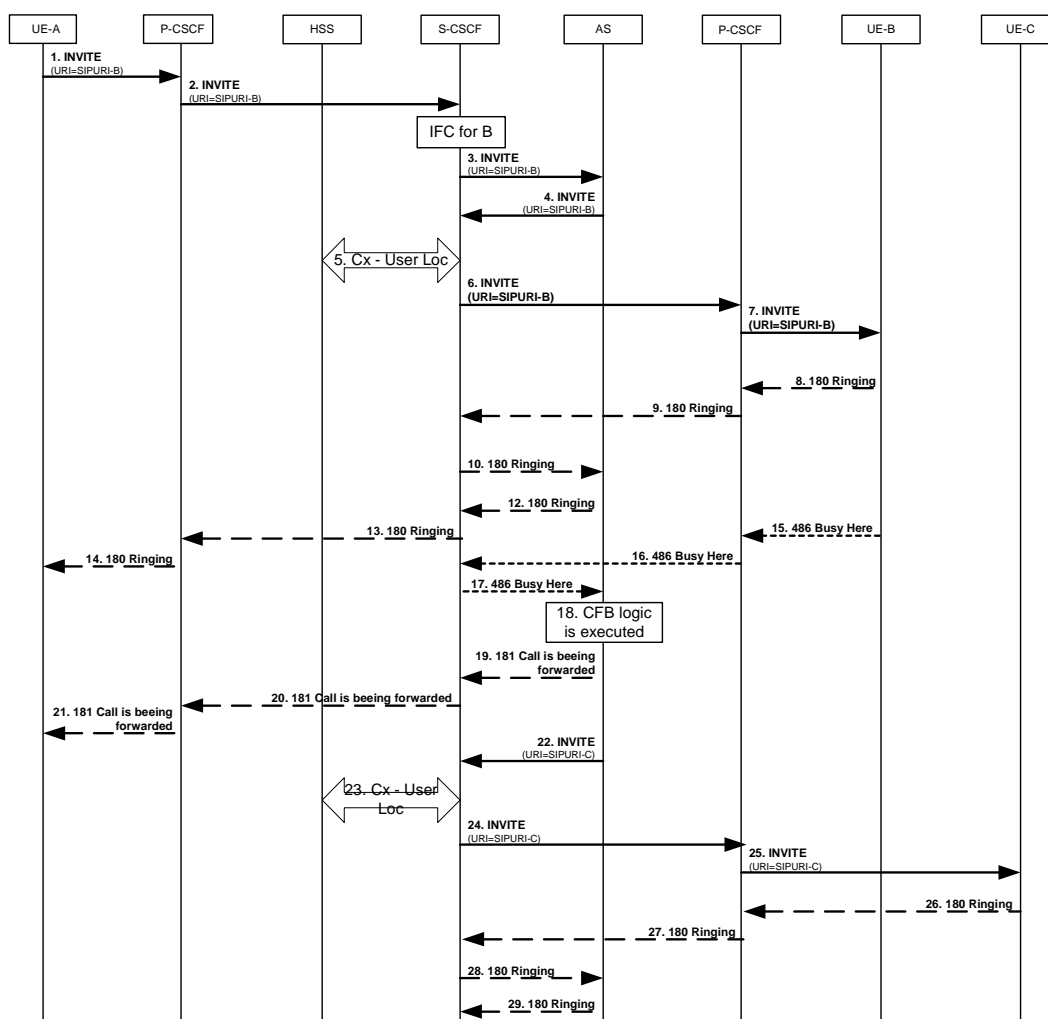


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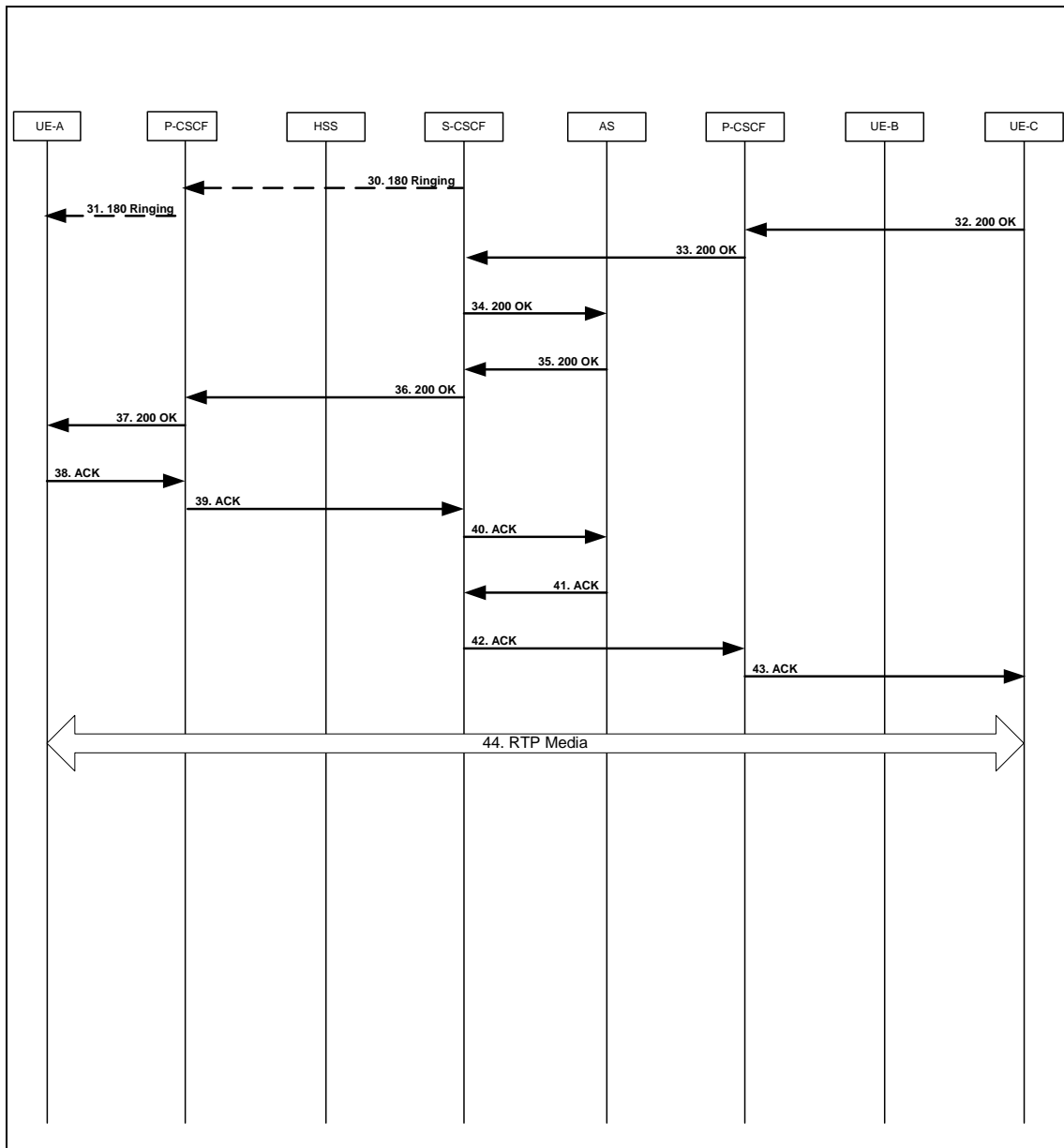


<b>SSS</b> XXSSCFB 05	<b>NGN reference to:</b> [17]
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB.
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding Busy supported (user determined).</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion.</p>
SIP Parameter values:	<p>Dial string parameters options=PIXIT                  TYPE_SDP= PIXIT;                  PIXIT for supported header:                  Case a) No 100 rel;                  Case b) Supported: 100 rel;                  Case c) Supported: 100 rel and precondition.</p>

Comments:

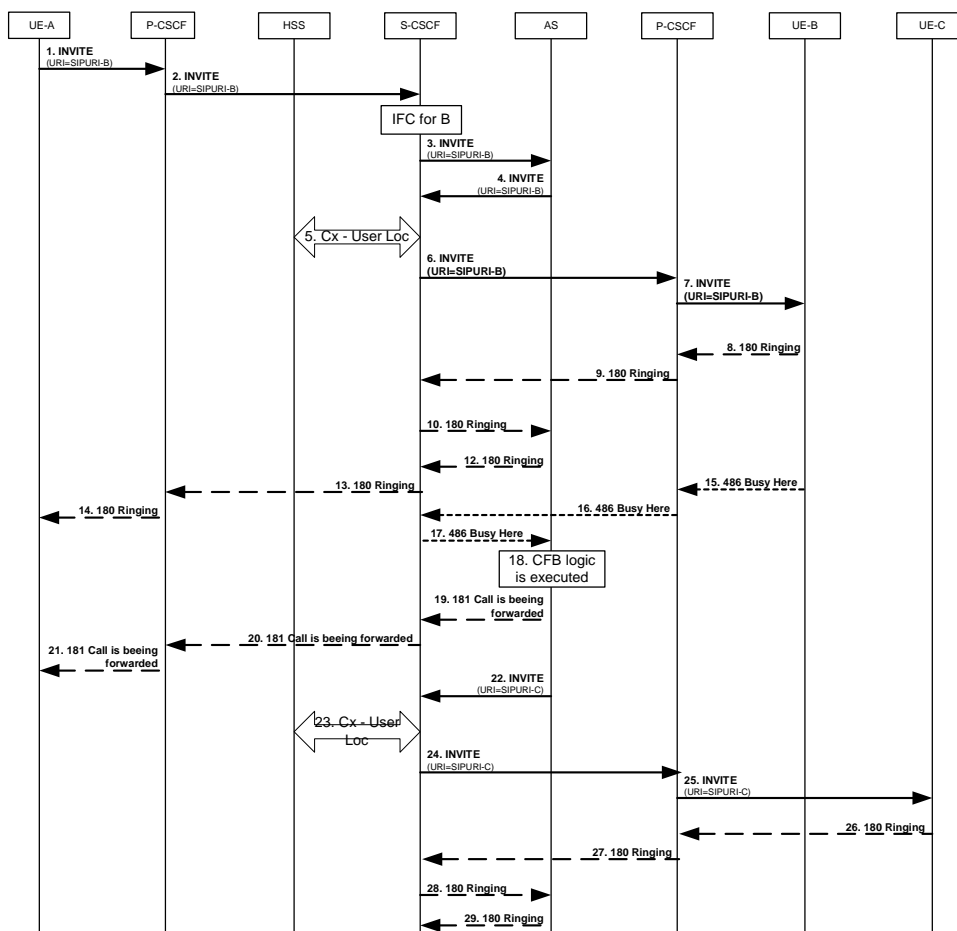


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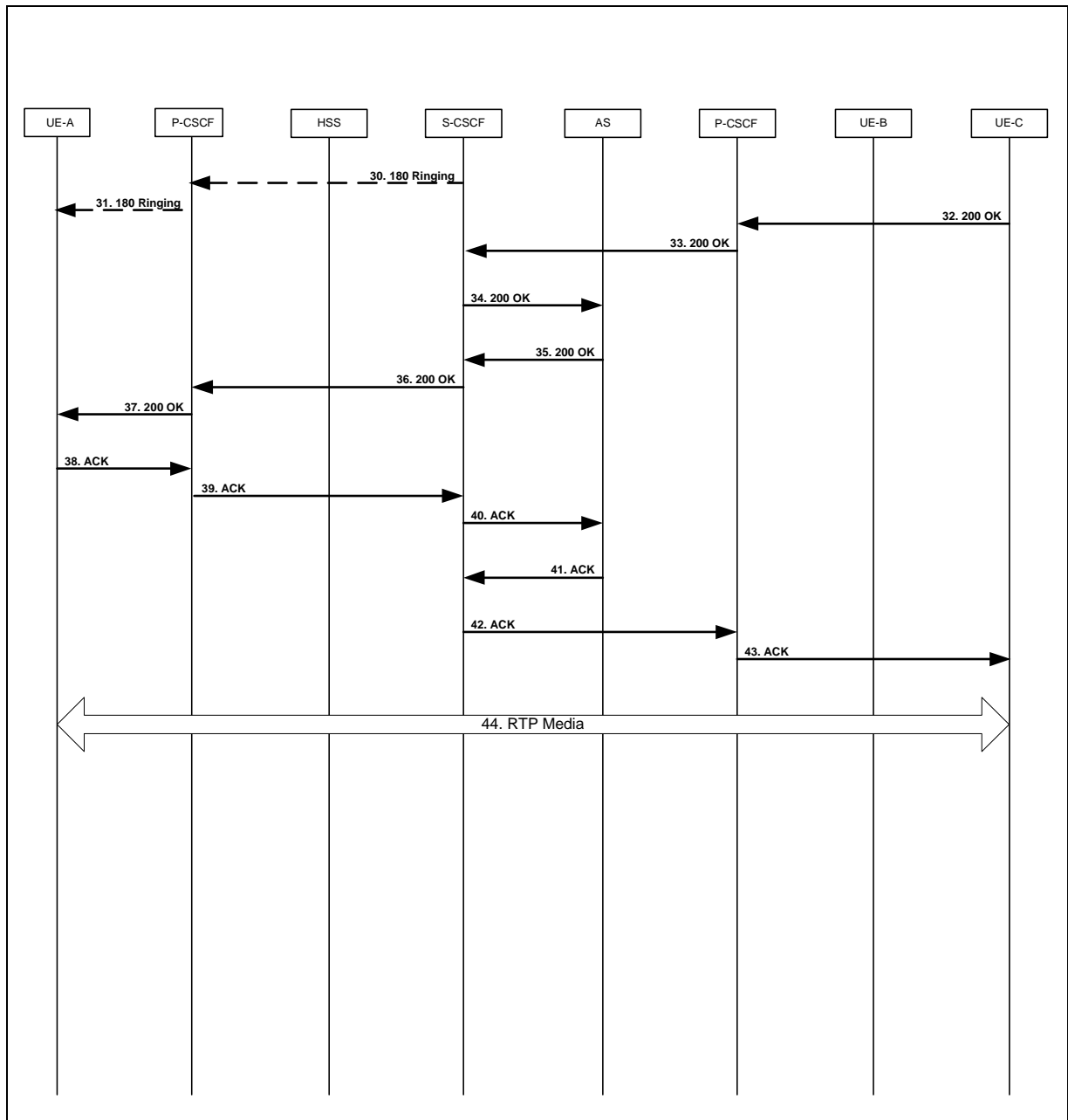
<b>SSS XXSSCFB 06</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CFB.</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no).</p>
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported (user determined).</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is not notified of call diversion and not informed of the diverted-to number (user C has presentation allowed – TIP) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion.</p>
SIP Parameter values:	<p>Dial string parameters options=PIXIT                  TYPE_SDP= PIXIT;                  PIXIT for supported header:                  Case a) No 100 rel;                  Case b) Supported: 100 rel;                  Case c) Supported: 100 rel and precondition.</p>

Comments:

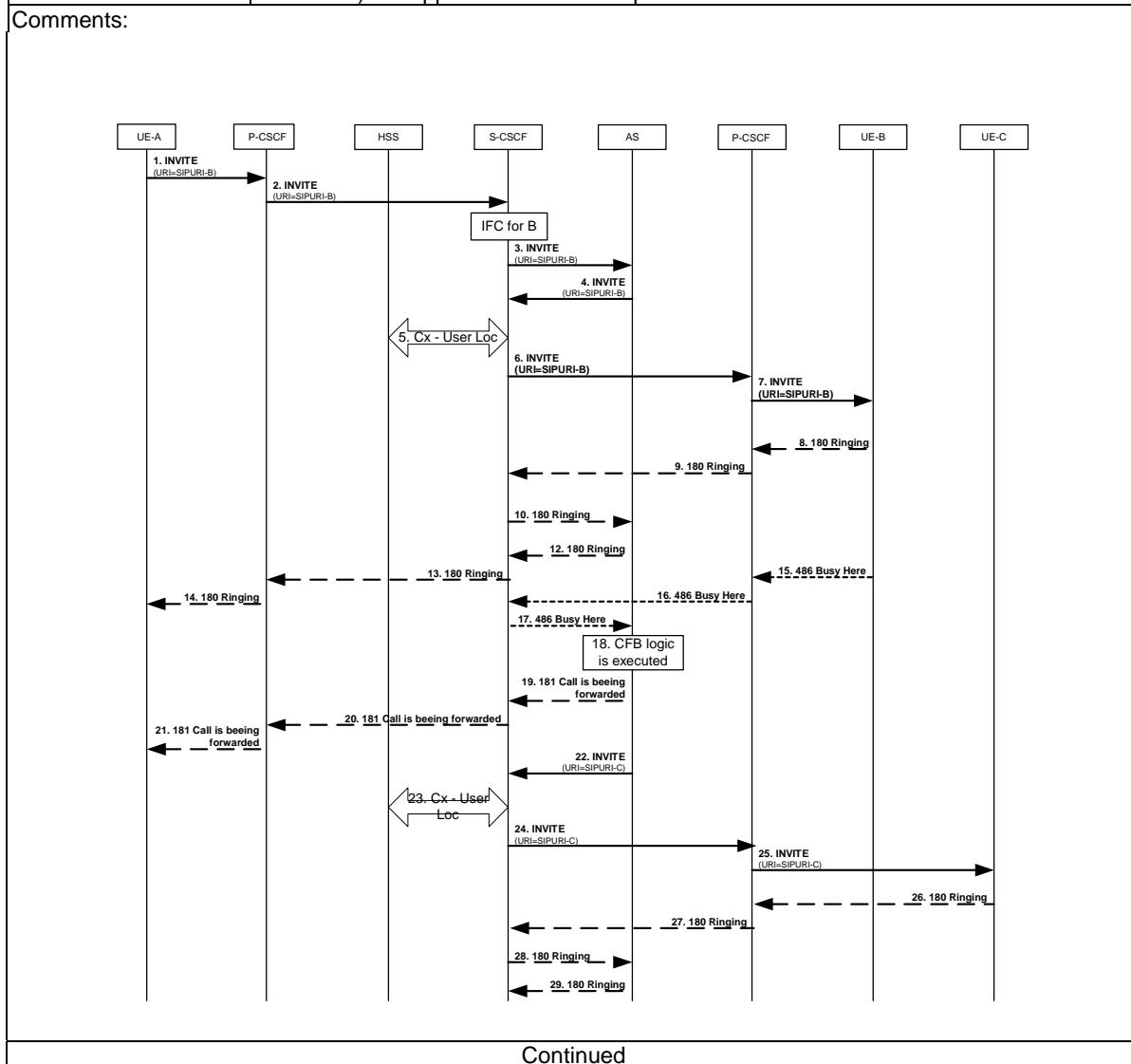


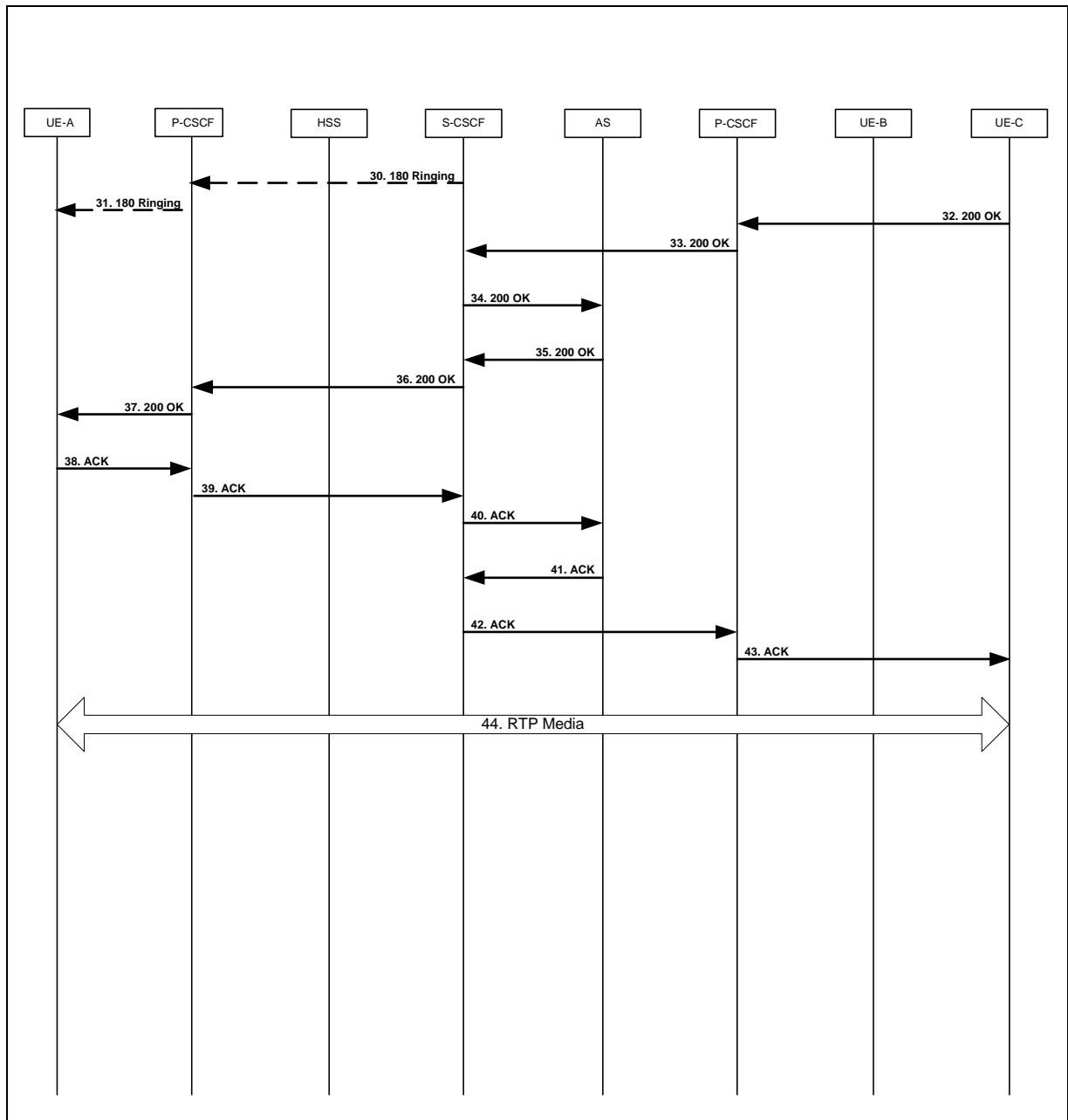
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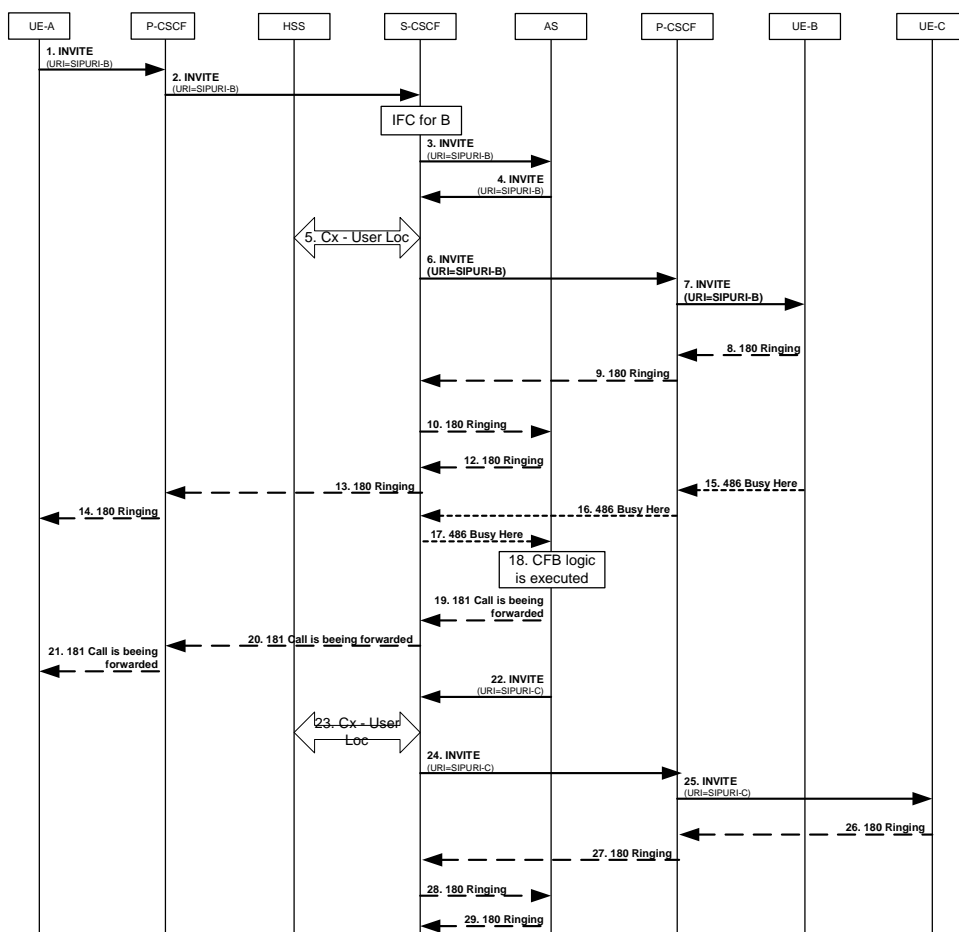
<b>SSS XXSSCFB 07</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is provided with CFB.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =Yes).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported (network determined).</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has TIP) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.



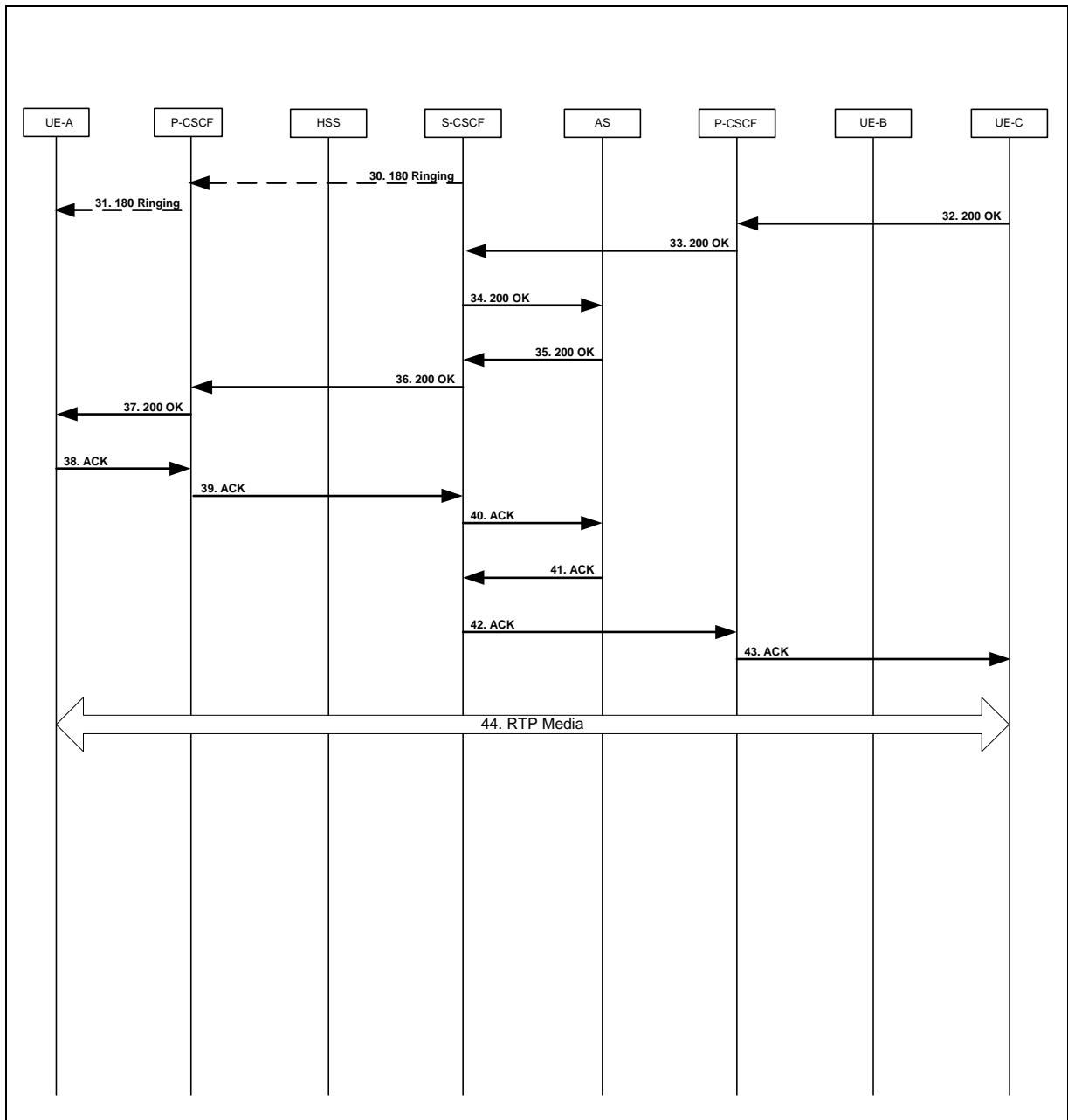


<b>SSS_XXSSCFB 08</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is provided with CFB.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =No).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding busy supported (network determined)</li> <li>• CF Notifications supported</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has TIP) and user C is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

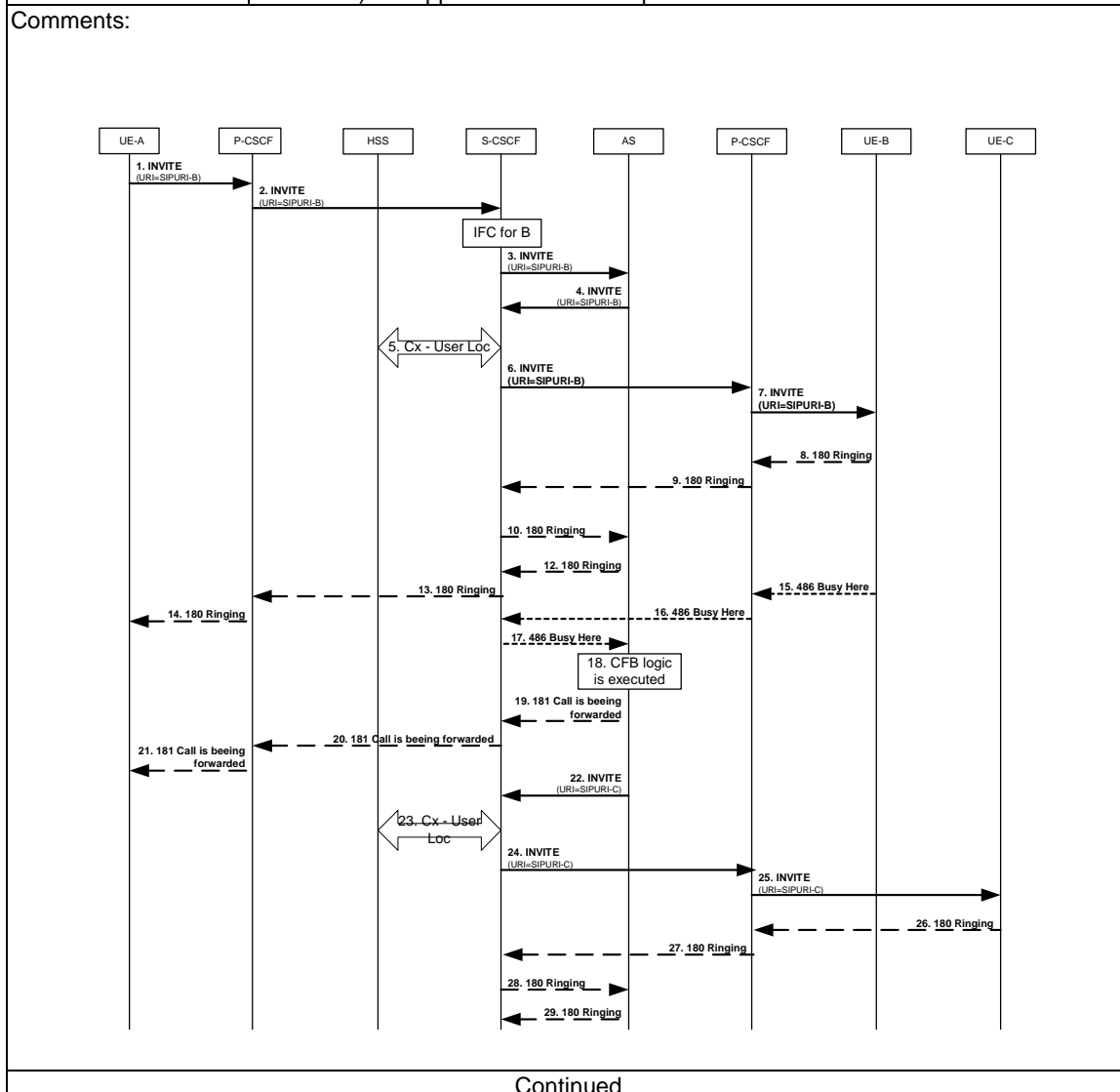
Comments:

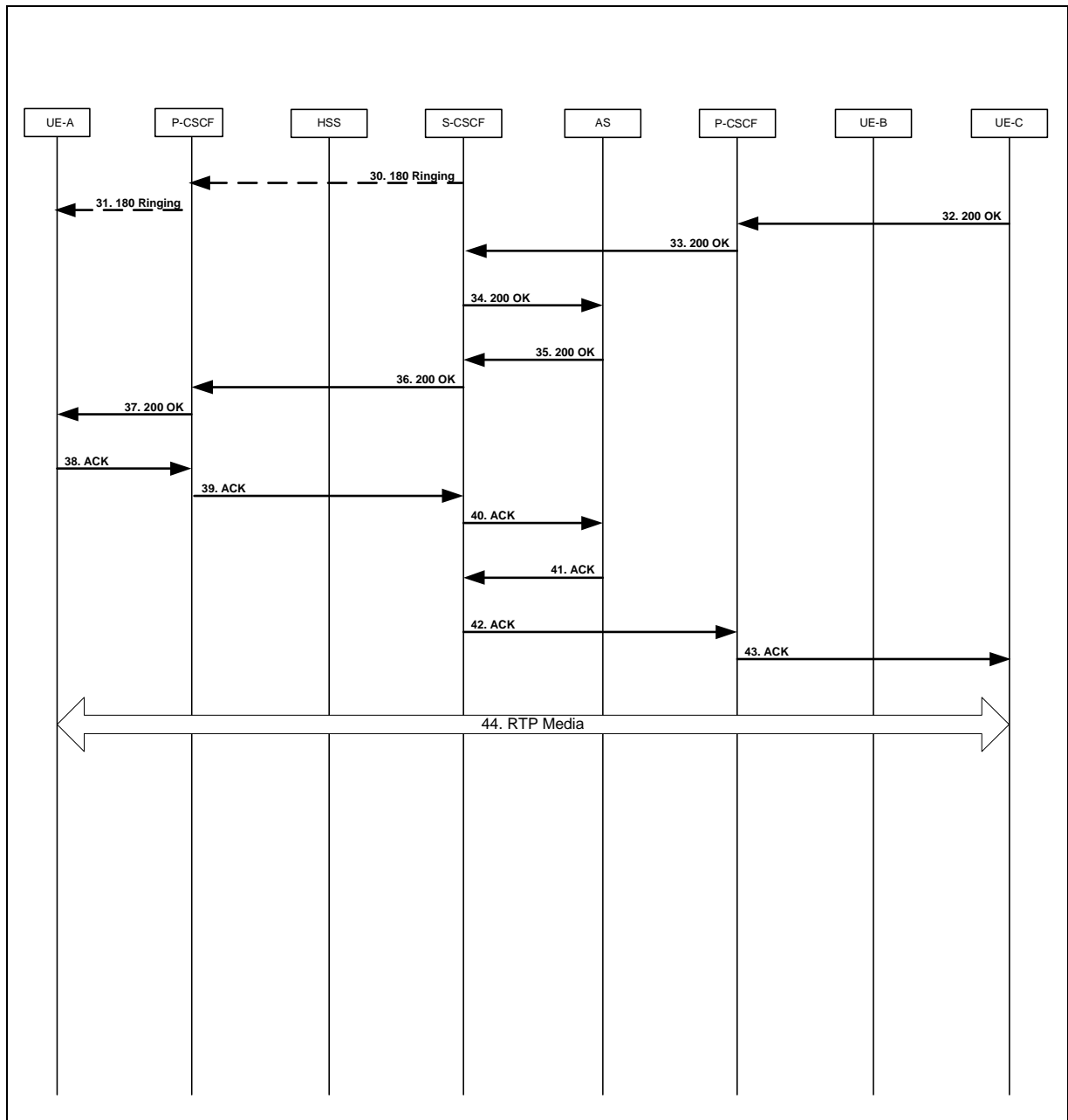


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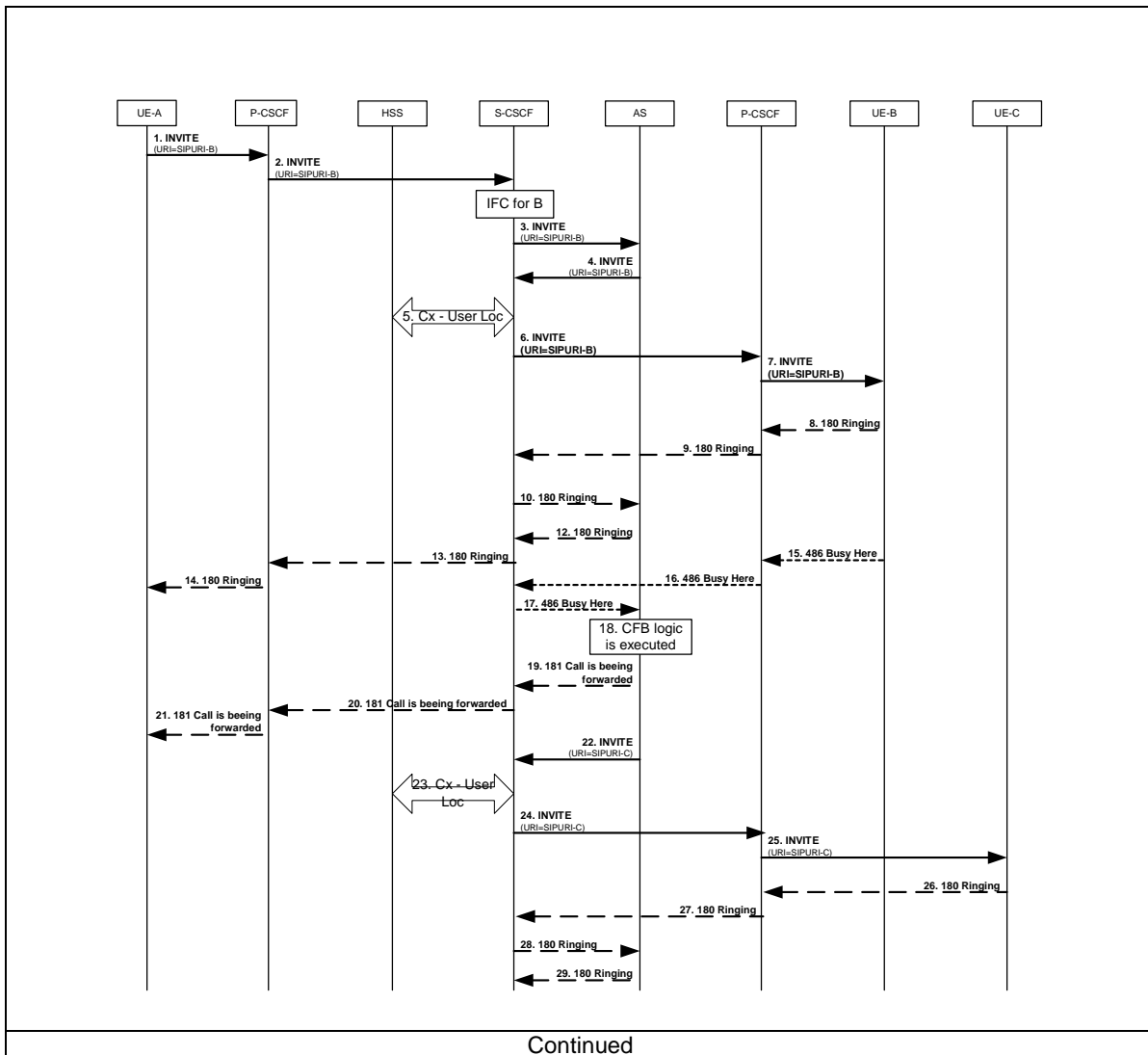
<b>SSS</b> XXSSCFB 09	<b>NGN reference to:</b> [17]
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding Busy supported (network determined)</li> <li>• CF Notifications supported</li> </ul>
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion</p>
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition

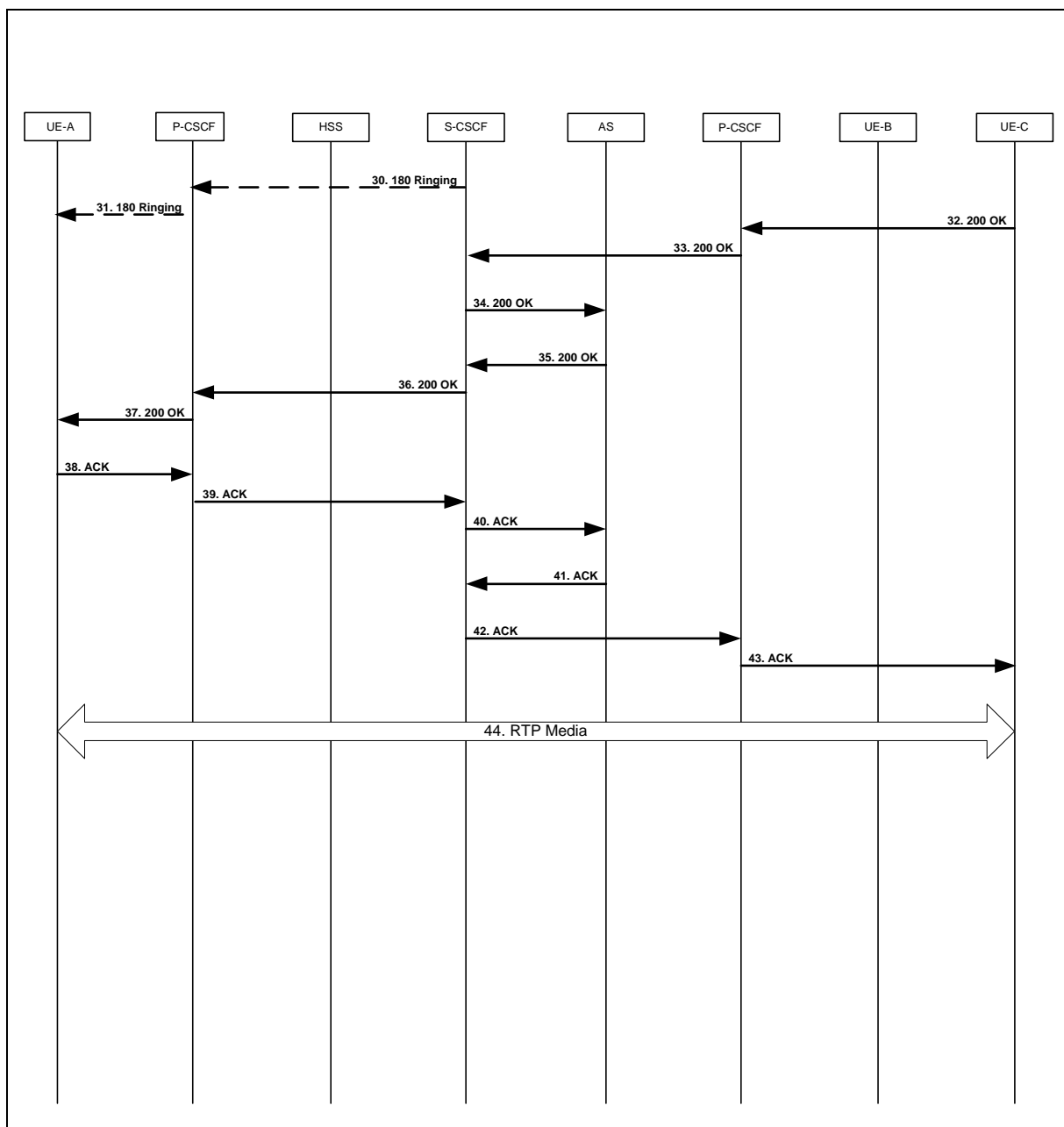




<b>SSS_XXSSCFB 10</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB	
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CFB</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no).</p>	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network</li> <li>• Call forwarding busy supported (network determined)</li> <li>• CF Notifications supported</li> </ul>	
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is not notified of call diversion and not informed of the diverted-to number (user C has presentation allowed – TIP) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT  TYPE_SDP= PIXIT;  PIXIT for supported header:  Case a) No 100 rel  Case b) Supported: 100 rel  Case c) Supported: 100 rel and precondition</p>	
Comments:	Continued	







<b>SSS_XXSSCFB 15</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB
Configuration	The user B is in network N2 and is provided with CFB
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>
Test purpose:	<p>To verify that a call is released correctly if <b>CFB was not successful</b>.</p> <p>User A calls user B, the call is forwarded to user C who is <b>user</b> determined user busy.</p>
SIP Parameter values:	<p>Dial string parameters options=PIXIT                  TYPE_SDP= PIXIT;                  PIXIT for supported header:                  Case a) No 100 rel                  Case b) Supported: 100 rel                  Case c) Supported: 100 rel and precondition</p>
Comments:	

<b>SSS_XXSSCFB 16</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB	
Configuration	The user B is in network N2 and is provided with CFB	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is network determined user busy.</li> </ul>	
Test purpose:	<p>To verify that a call is released correctly if CFB was not successful.</p> <p>User A calls user B, the call is forwarded to user C who is <b>network determined user busy</b>.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

<b>SSS_XXSSCFB 17</b>	<b>Reference TS 183 004 [17] clause 4.5.2.6.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB	
Configuration	The user B is in network N2 and is provided with CFB	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>	
Test purpose:	<p>The served user subscribes to the CFB simulation service; originating user is notified. Additionally an announcement is played.</p> <p>When Communication Diversion occurs and if the notification procedures of the originating user is supported then a 181 (Call Is Being Forwarded) response shall be sent towards the originating user.</p> <p>Additional the AS initiates an announcement to be included towards the calling user in order to inform about the diversion. Announcements shall be played according to procedures as are described in TS 183 028 [18].</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition <b>SIP header values:</b> 181 Call is Being Forwarded	
Comments:		

SIP#1	SUT	SIP#2 (served user)	SIP#3
INVITE 1	→ INVITE	INVITE → INVITE 486 Busy Here ← 486 Busy Here ACK → ACK	
181 Call is Being Forwarded	← 181 Call is Being Forwarded		
180 Ringing	← 180 Ringing	INVITE → 180 Ringing ← 200 OK (INVITE) ←	→ INVITE ← 180 Ringing ← 200 OK (INVITE)
200 OK (INVITE) ACK	← 200 OK (INVITE) →		→ ACK
		<b>Communication</b>	
BYE 200 OK (BYE)	→ ←		→ BYE ← 200 OK (BYE)

**The test case can not be tested with an ATS**

<b>SSS_XXSSCFB 18</b>	<b>Reference</b> <b>TS 183 004 [17] clause 4.5.2.6.3</b>			
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB			
Configuration	The user B is in network N2 and is provided with CFB			
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>			
Test purpose:	<p>The served user subscribes to the CFB simulation service; Indication of communication diversion to the diverting user using the MESSAGE request triggered by a timer.</p> <p>Ensure that when the diverting user is registering the AS sends a MESSAGE request including the information where the call is diverted to. The MESSAGE request that is be sent due to an timer value that can be provided by the user.</p>			
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition			
Comments:				
	<b>SIP#1</b>	<b>SUT</b>	<b>SIP#2</b> <b>(served user)</b>	<b>SIP#3</b>
INVITE 1	→ INVITE		INVITE → INVITE 486 Busy Here ← 486 Busy Here ACK → ACK INVITE 2 → → INVITE MESSAGE → MESSAGE 200 OK ← 200 OK 180 Ringing ← ← 180 Ringing	
180 Ringing	← 180 Ringing	200 OK (INVITE) ←		← 200 OK (INVITE)
200 OK (INVITE)	← 200 OK (INVITE)			
ACK	→			→ ACK
		<b>Communication</b>		
BYE	→			→ BYE
200 OK (BYE)	←			← 200 OK (BYE)

<b>SSS_XXSSCFB 19</b>	<b>Reference</b> <b>TS 183 004 [17] clause 4.5.2.6.3</b>																																																																									
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB																																																																									
Configuration	The user B is in network N2 and is provided with CFB																																																																									
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>																																																																									
Test purpose:	<p>The served user subscribes to the CFB simulation service; Indication of communication diversion to the diverting user using the MESSAGE request when a new outgoing communication is requested.</p> <p>Ensure that a diverting user will be informed with a MESSAGE request after the diverting user has initiated a new outgoing communication the information where the call is diverted to.</p>																																																																									
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition																																																																									
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<b>SSS__XXSSCFB 20</b>	<b>Reference</b> <b>TS 183 004 [17] clause 4.5.2.6.3</b>																																																									
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Configuration	The user B is in network N2 and is provided with CFB																																																									
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Test purpose:	<p>The served user subscribes to the CFB simulation service; Indication of communication diversion to the diverting user using a voicemail or mail system.</p> <p>Ensure that when communication diversion is performed, the AS sends Voicemail or Message mail system request including the information where the call is diverted to.</p>																																																									
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200 OK (BYE)	←		← 200 OK (BYE)																																																							

<b>SSS_XXSSCFB 21</b>	<b>Reference</b> <b>TS 183 004 [17] clause 4.5.2.6.3</b>																																																														
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB																																																														
Configuration	The user B is in network N2 and is provided with CFB																																																														
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>																																																														
Test purpose:	<p>The served user subscribes to the CFB simulation service; Indication of communication diversion to the diverting user using a voicemail or mail system requested by a timer.</p> <p>Ensure that when communication diversion is performed, the AS sends a Voicemail or Message mail system request including the information where the call is diverted to. The Voicemail or Message mail system shall be sent due to a timer value that can be provided by the user.</p>																																																														
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition																																																														
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<b>SIP#1</b>	<b>SUT</b>	<b>SIP#2</b> (served user)	<b>SIP#3</b>																																																												
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ACK	→		→ ACK																																																												
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BYE	→		→ BYE																																																												
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<b>SSS__XXSSCFB 22</b>	<b>Reference</b> <b>TS 183 004 [17] clause 4.5.2.6.3</b>			
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB			
Configuration	The user B is in network N2 and is provided with CFB			
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>			
Test purpose:	<p>The served user subscribes to the CFB simulation service; periodically indication of communication diversion to the diverting user using a voicemail or mail system.</p> <p>Ensure that when communication diversion is performed. the AS sends a Voicemail or Message mail system request including the information where the call is diverted to. The diverting user will be informed periodically with Voicemail or Message mail system with the information where the call is diverted to.</p>			
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition			
Comments:				
	<b>SIP#1</b>	<b>SUT</b>	<b>SIP#2 (served user)</b>	<b>SIP#3</b>
INVITE 1	→ INVITE	INVITE →	INVITE →	
		486 Busy Here ←	486 Busy Here ←	
		ACK →	ACK →	
		INVITE 2 →		→ INVITE
		<b>Voicemail or Message mail system</b> →	<b>Voicemail or Message mail system</b> →	
		180 Ringing ←		← 180 Ringing
180 Ringing	← 180 Ringing	200 OK (INVITE) ←		← 200 OK (INVITE)
200 OK (INVITE)	← 200 OK (INVITE)			
ACK	→	<b>Voicemail or Message mail system</b> →	<b>Voicemail or Message mail system</b> →	→ ACK
		<b>Communication</b>		
BYE	→			→ BYE
200 OK (BYE)	←			← 200 OK (BYE)
<b>The test case can not be tested with an ATS</b>				

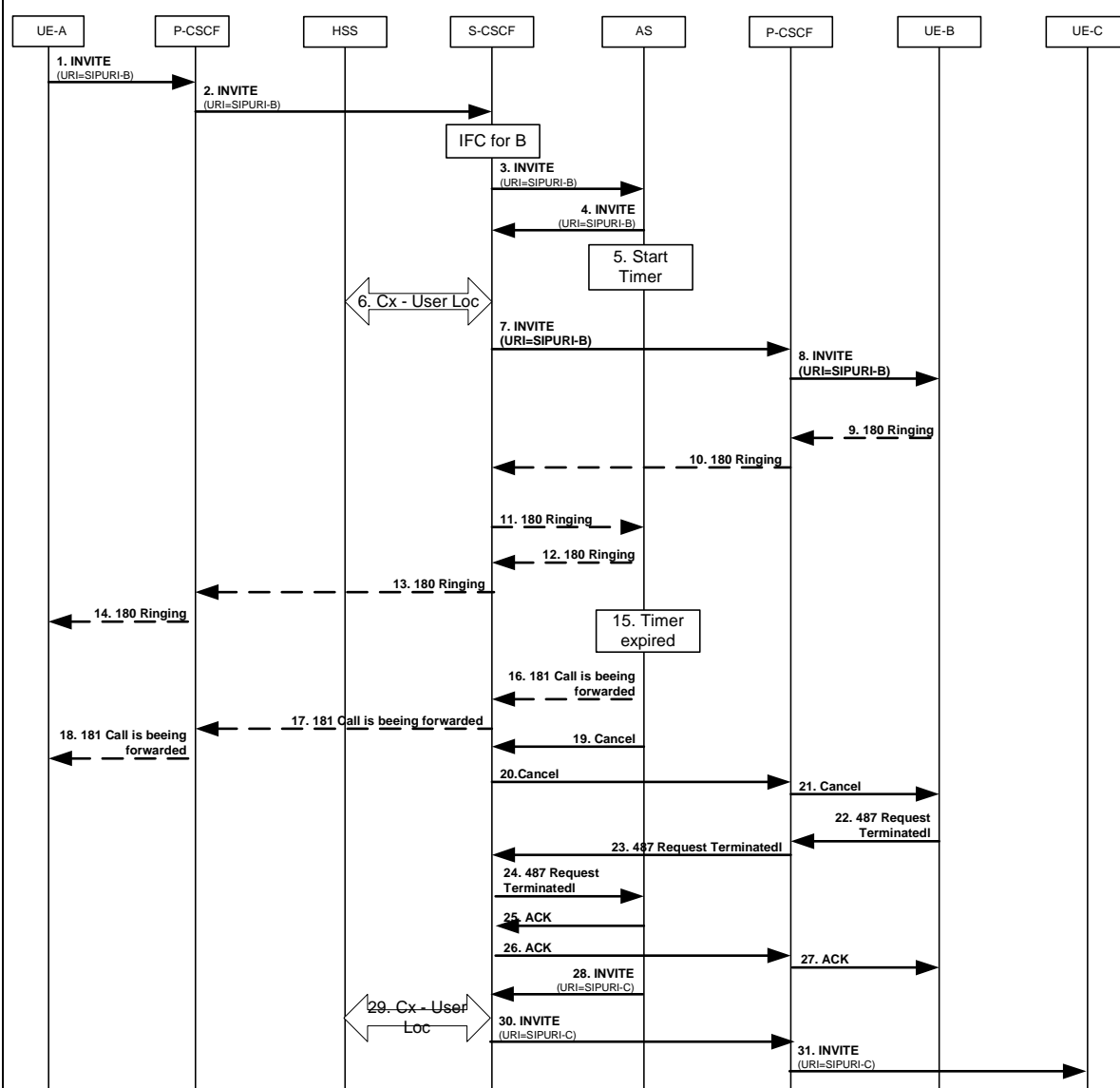


SSS_XXSSCFB 23	Reference TS 183 004 [17] clause 4.5.2.6.3																																														
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFB																																														
Configuration	The user B is in network N2 and is provided with CFB																																														
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding busy supported.</li> <li>• user C is user determined user busy.</li> </ul>																																														
Test purpose:	<p>The served user subscribes to the CFB simulation service; Indication of a new communication diversion to the diverting user using a voicemail or mail system.</p> <p>Ensure that a diverting user will be informed with Message mail system request after the diverting user has initiated a new outgoing communication the information where the call is diverted to.</p>																																														
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition																																														
Comments:	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 25%;">SIP#1</th> <th style="text-align: center; width: 25%;">SUT</th> <th style="text-align: center; width: 25%;">SIP#2 (served user)</th> <th style="text-align: right; width: 25%;">SIP#3</th> </tr> </thead> <tbody> <tr> <td>INVITE 1</td> <td>→ INVITE</td> <td>INVITE → 486 Busy Here ← ACK →</td> <td>INVITE → 486 Busy Here ← ACK →</td> </tr> <tr> <td></td> <td><b>Voicemail or Message mail system</b></td> <td>→ <b>Voicemail or Message mail system</b></td> <td></td> </tr> <tr> <td>180 Ringing</td> <td>← 180 Ringing</td> <td>INVITE 2 → 180 Ringing ←</td> <td>→ INVITE ← 180 Ringing</td> </tr> <tr> <td>200 OK (INVITE)</td> <td>← 200 OK (INVITE)</td> <td>200 OK (INVITE) ←</td> <td>← 200 OK (INVITE)</td> </tr> <tr> <td>ACK</td> <td>→</td> <td></td> <td>→ ACK</td> </tr> <tr> <td></td> <td><b>Communication</b></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>INVITE 3 → 180 Ringing ←</td> <td>→ INVITE ← 180 Ringing</td> </tr> <tr> <td></td> <td><b>Voicemail or Message mail system</b></td> <td>← 180 Ringing ← 200 OK (INVITE)</td> <td>← 200 OK (INVITE)</td> </tr> <tr> <td></td> <td></td> <td>→ <b>Voicemail or Message mail system</b></td> <td></td> </tr> <tr> <td></td> <td></td> <td>→ ACK</td> <td>→ ACK</td> </tr> </tbody> </table> <p><b>The test case can not be tested with an ATS</b></p>			SIP#1	SUT	SIP#2 (served user)	SIP#3	INVITE 1	→ INVITE	INVITE → 486 Busy Here ← ACK →	INVITE → 486 Busy Here ← ACK →		<b>Voicemail or Message mail system</b>	→ <b>Voicemail or Message mail system</b>		180 Ringing	← 180 Ringing	INVITE 2 → 180 Ringing ←	→ INVITE ← 180 Ringing	200 OK (INVITE)	← 200 OK (INVITE)	200 OK (INVITE) ←	← 200 OK (INVITE)	ACK	→		→ ACK		<b>Communication</b>					INVITE 3 → 180 Ringing ←	→ INVITE ← 180 Ringing		<b>Voicemail or Message mail system</b>	← 180 Ringing ← 200 OK (INVITE)	← 200 OK (INVITE)			→ <b>Voicemail or Message mail system</b>				→ ACK	→ ACK
SIP#1	SUT	SIP#2 (served user)	SIP#3																																												
INVITE 1	→ INVITE	INVITE → 486 Busy Here ← ACK →	INVITE → 486 Busy Here ← ACK →																																												
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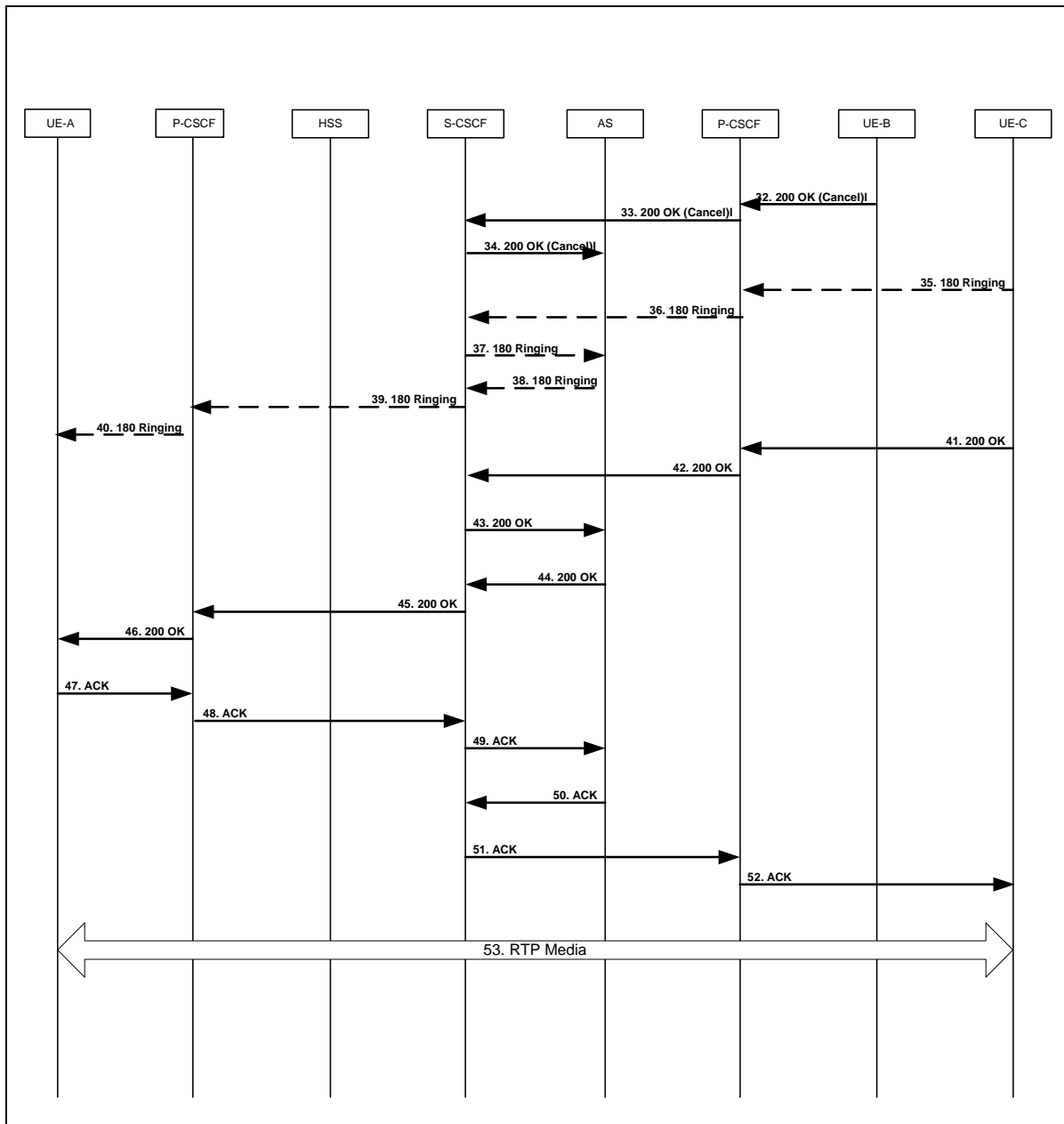
6.5.2.8 CFNR

<b>SSS_XXSSCFNR01</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR/
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR Served user communication retention on invocation of diversion (forwarding or deflection)= No [Clear call to the served user on invocation of call diversion].
Test purpose:	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. Ensure that in the active call state the voice transfer on the media channels is performed correctly (e.g. testing QoS parameters).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition

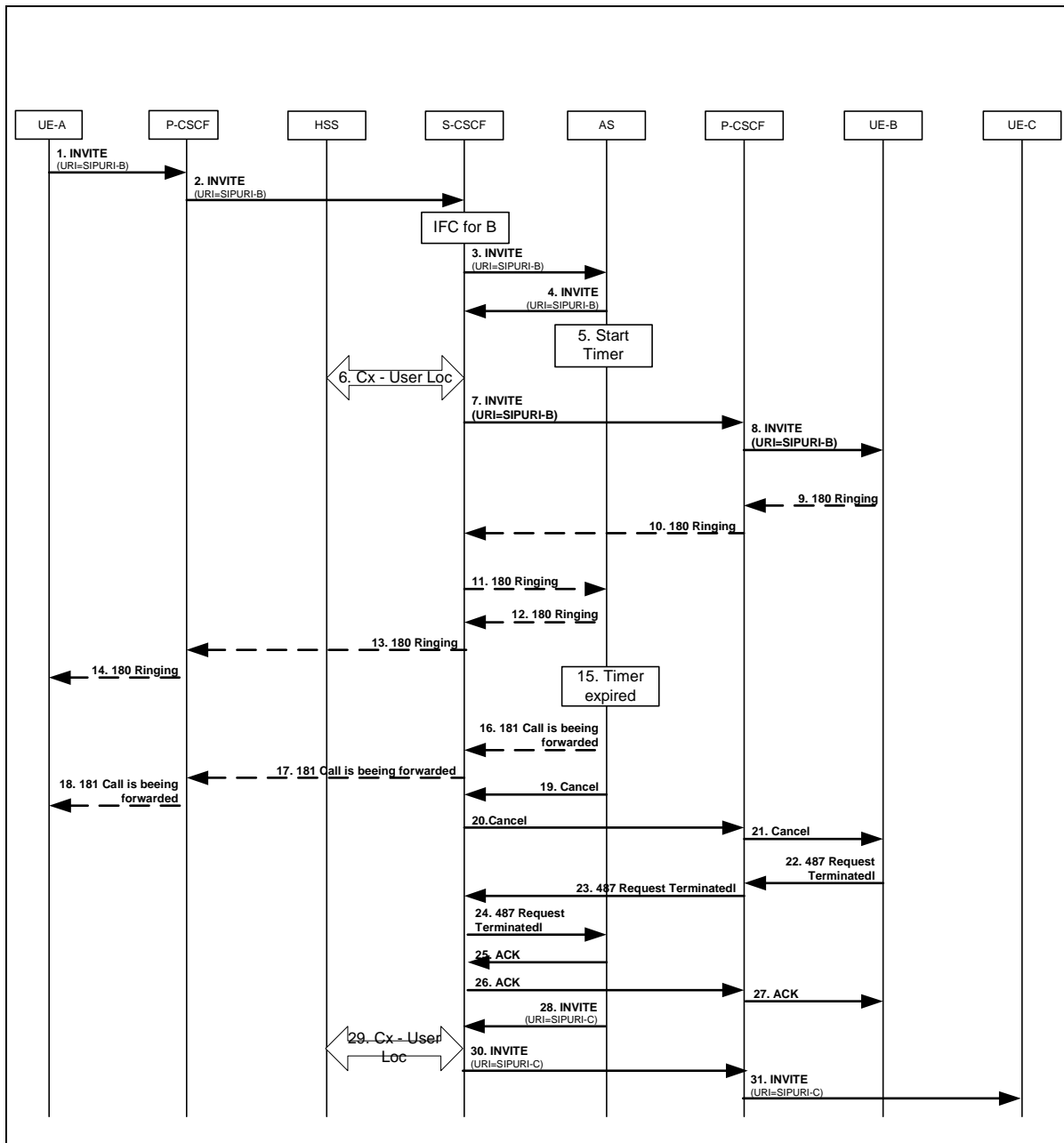
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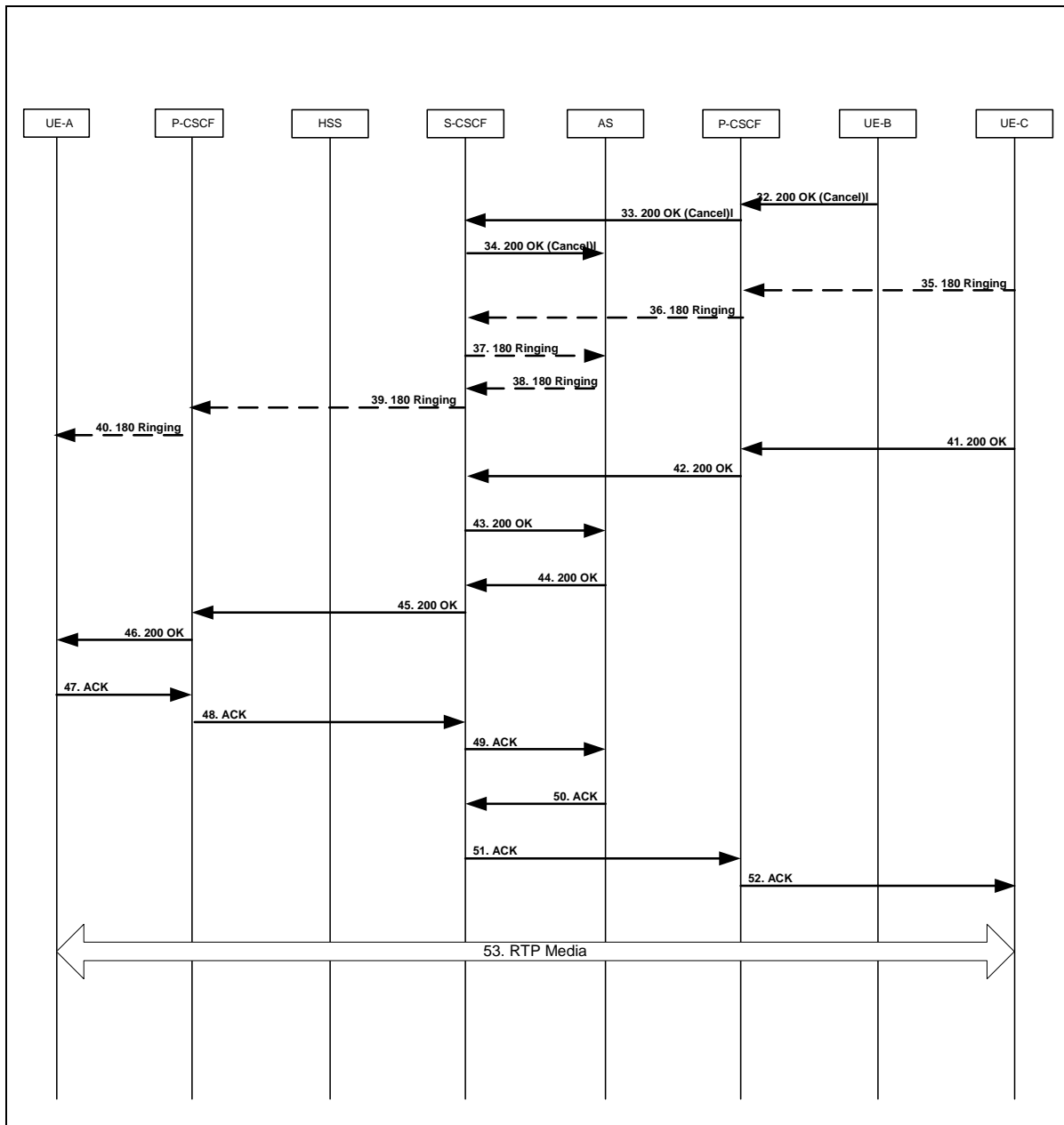


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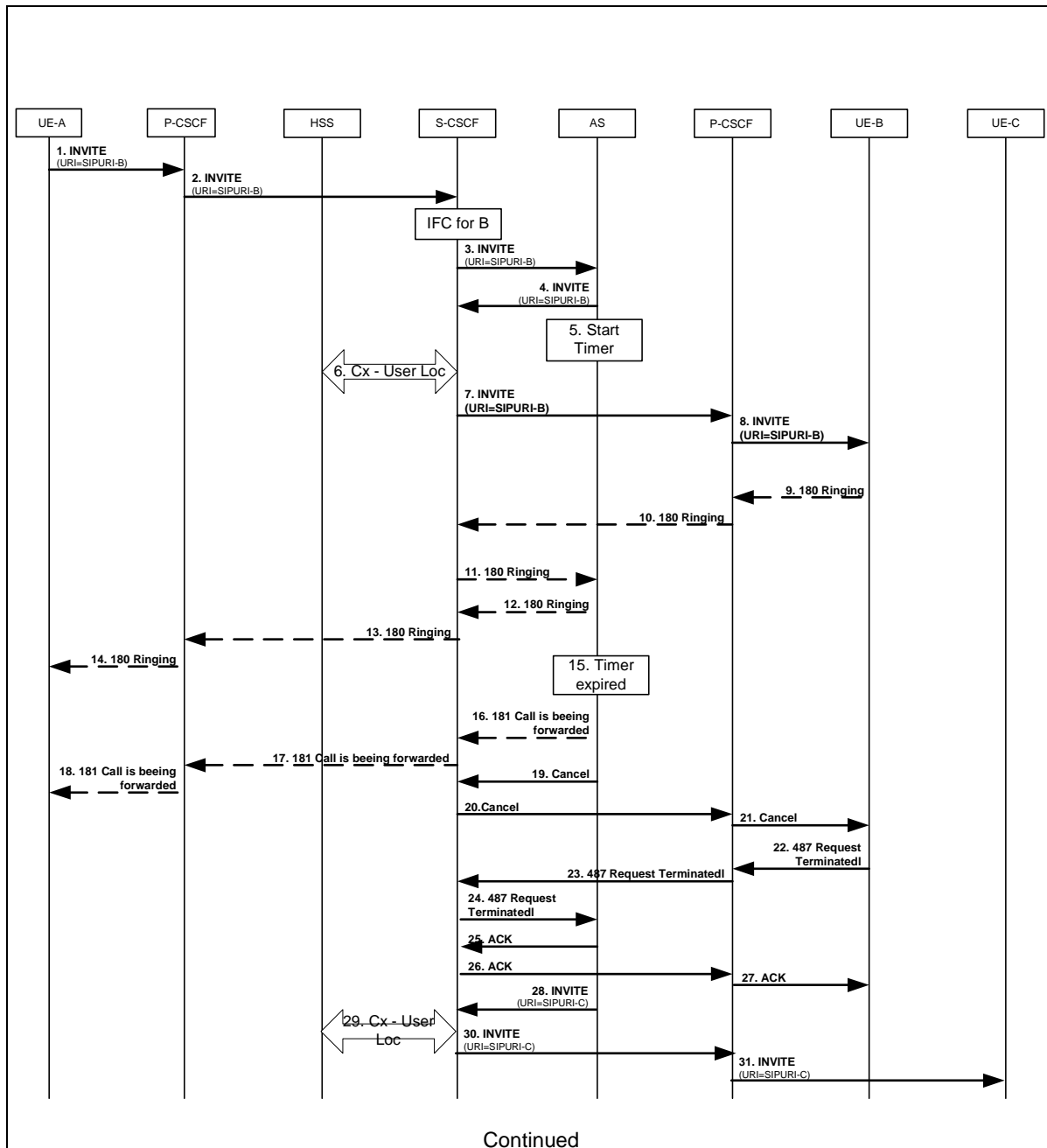


<b>SSS_XXSSCFNR02</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR/
Configuration	The user A and the user C are in network N1. The user B is provided with CFNR.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =Yes, Served user communication retention on invocation of diversion (forwarding or deflection)= No [Clear call to the served user on invocation of call diversion],
Selection criteria:	<ul style="list-style-type: none"> <li>• CFNR supported: <ul style="list-style-type: none"> <li>○ CF Notifications supported.</li> </ul> </li> </ul>
Test purpose:	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. User A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition
Comments:	Continued

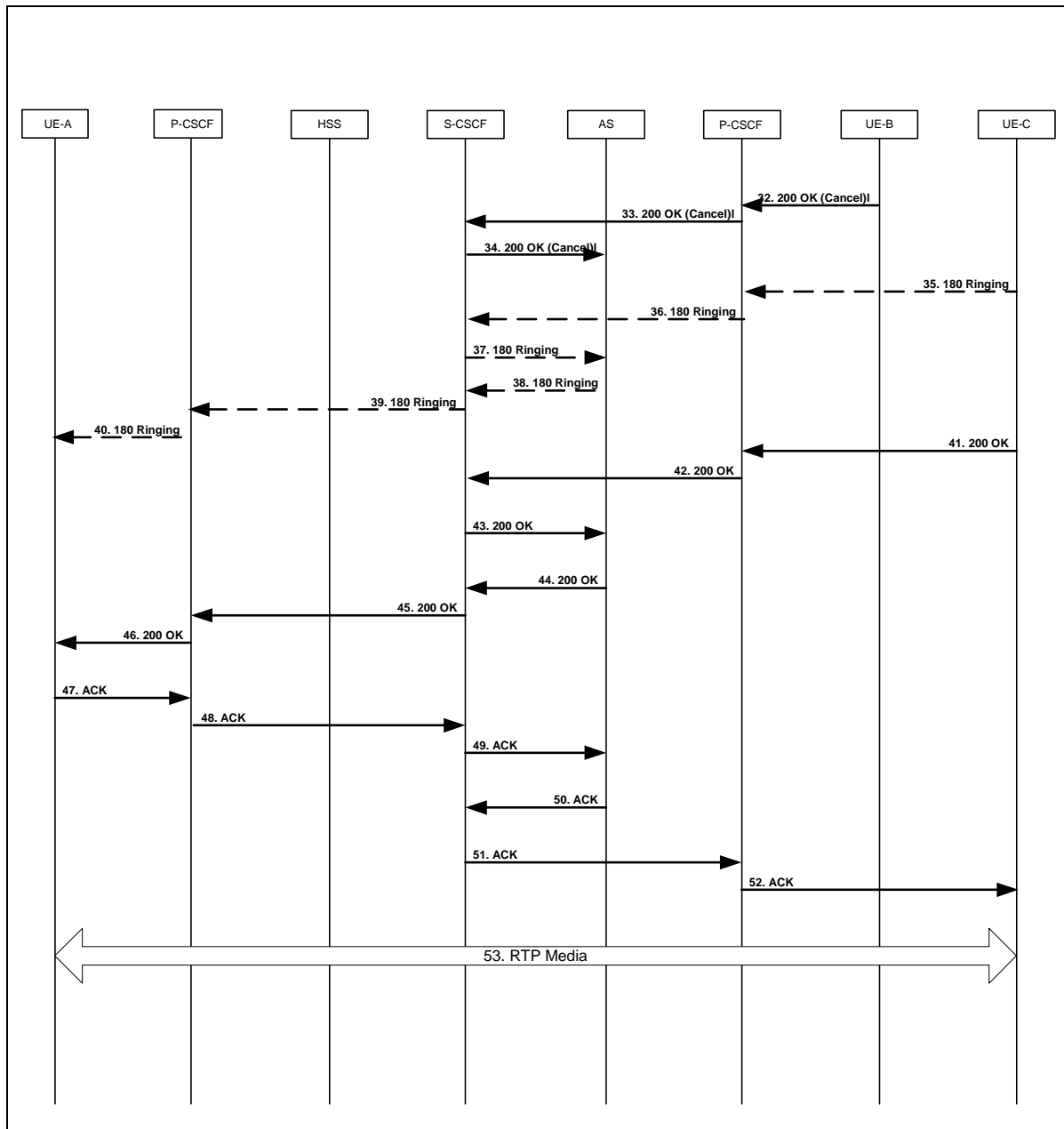




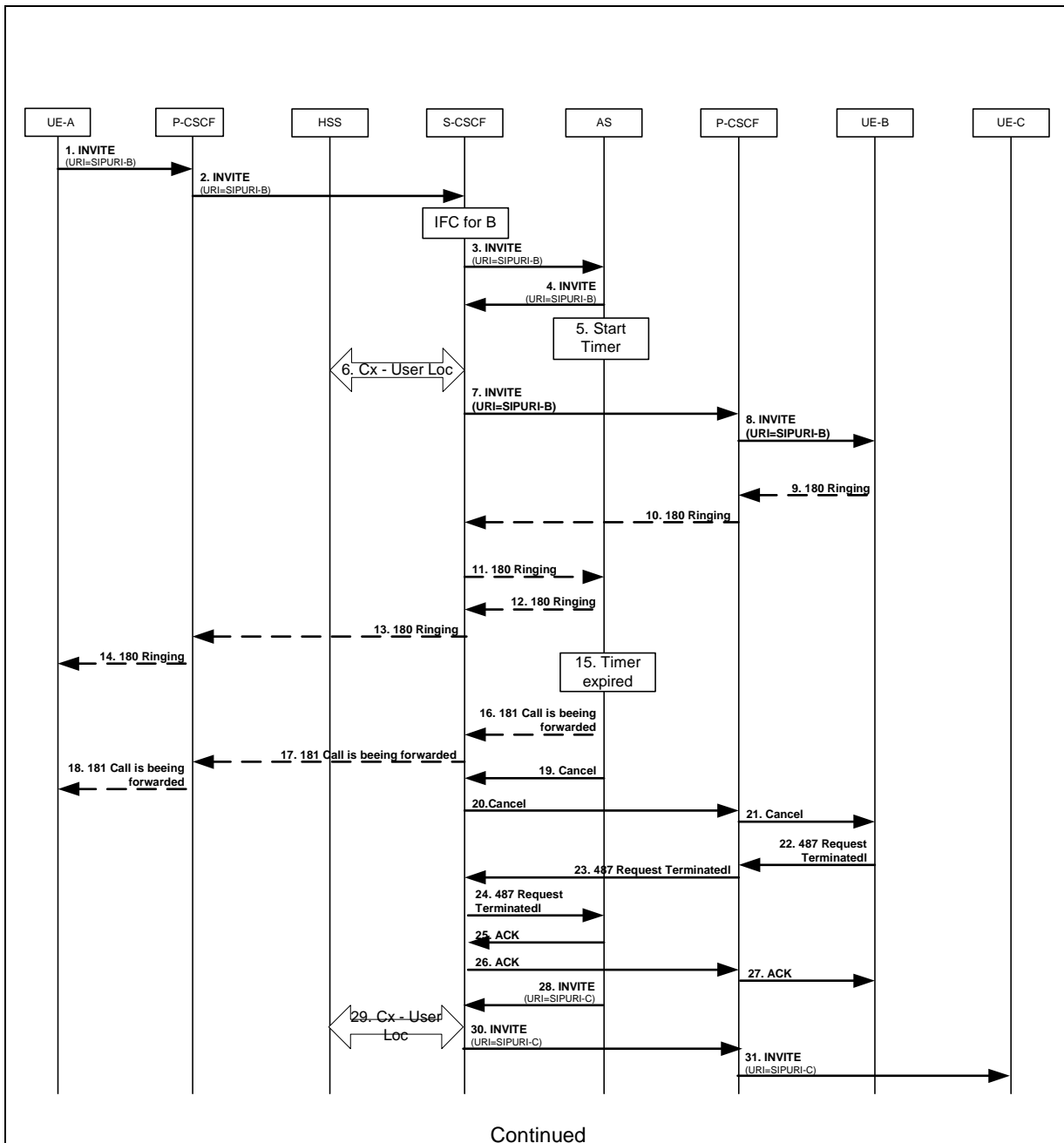
<b>SSS_XXSSCFNR03</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR/
Configuration	The user A and the user C are in network N1. The user B is provided with CFNR.  ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =No, Served user communication retention on invocation of diversion (forwarding or deflection)= No [Clear call to the served user on invocation of call diversion].
Selection criteria:	<ul style="list-style-type: none"> <li>• CFNR supported: <ul style="list-style-type: none"> <li>○ CF Notifications supported.</li> </ul> </li> </ul>
Test purpose:	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. User A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition
Comments:	Continued:

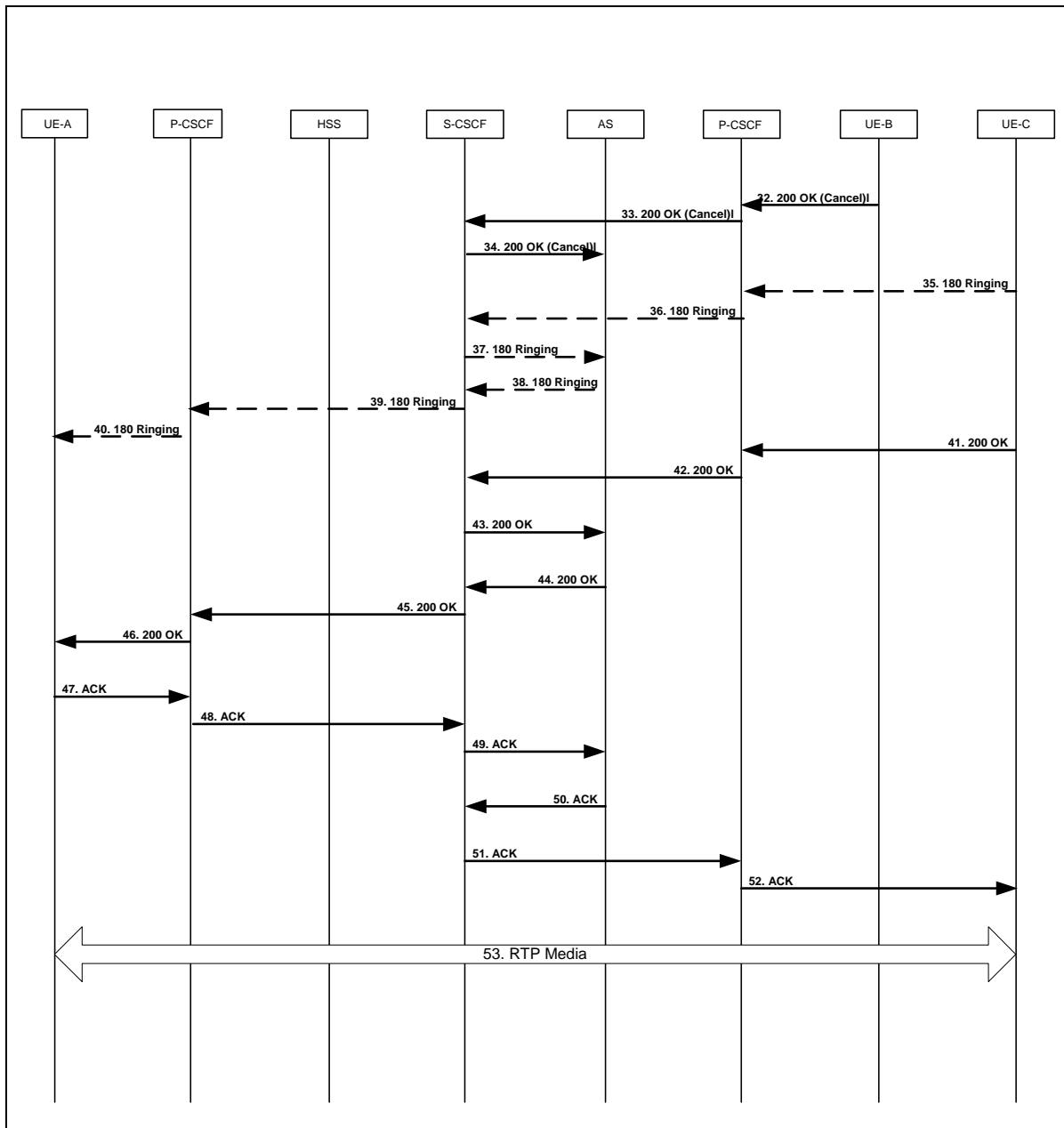




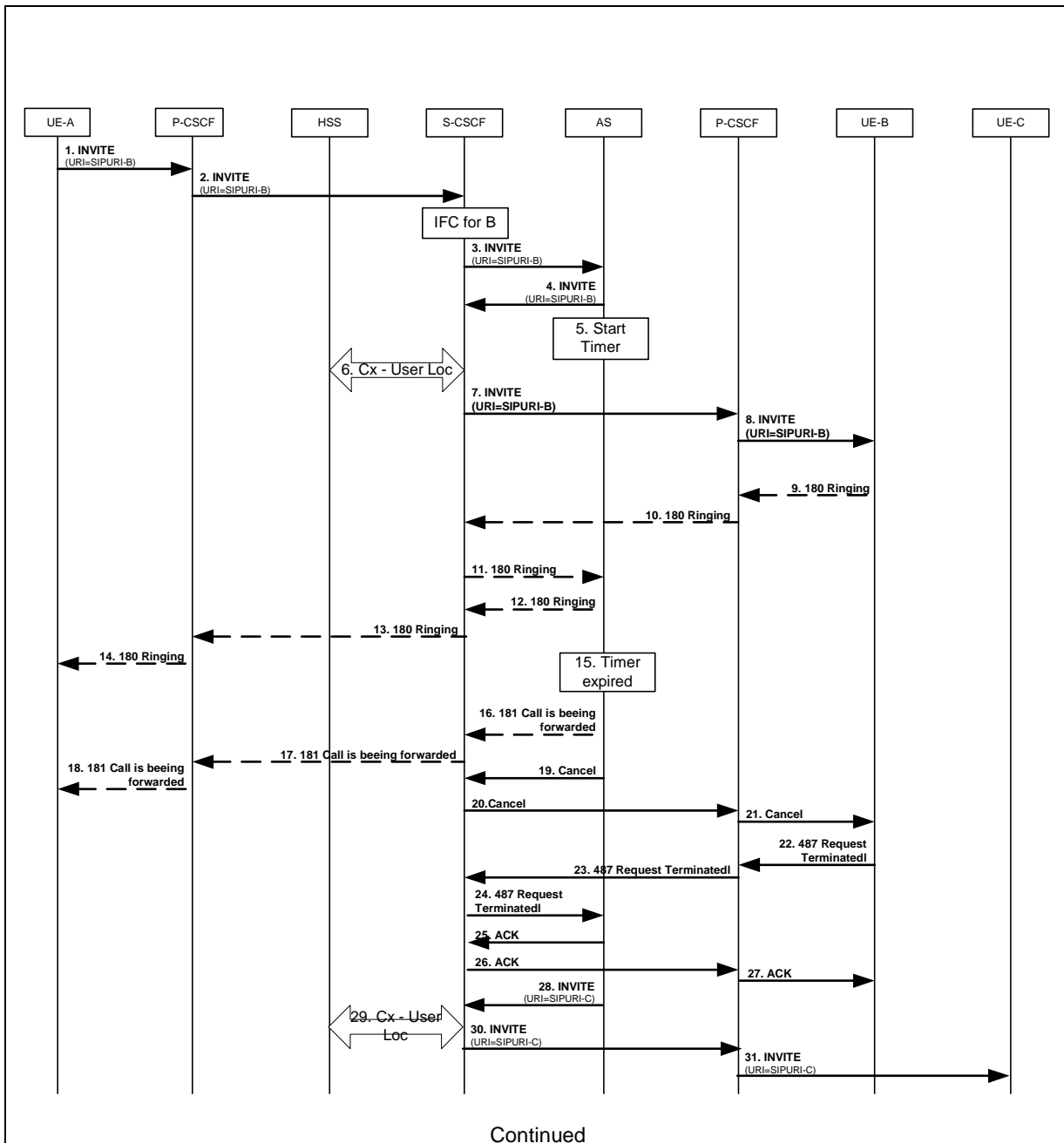


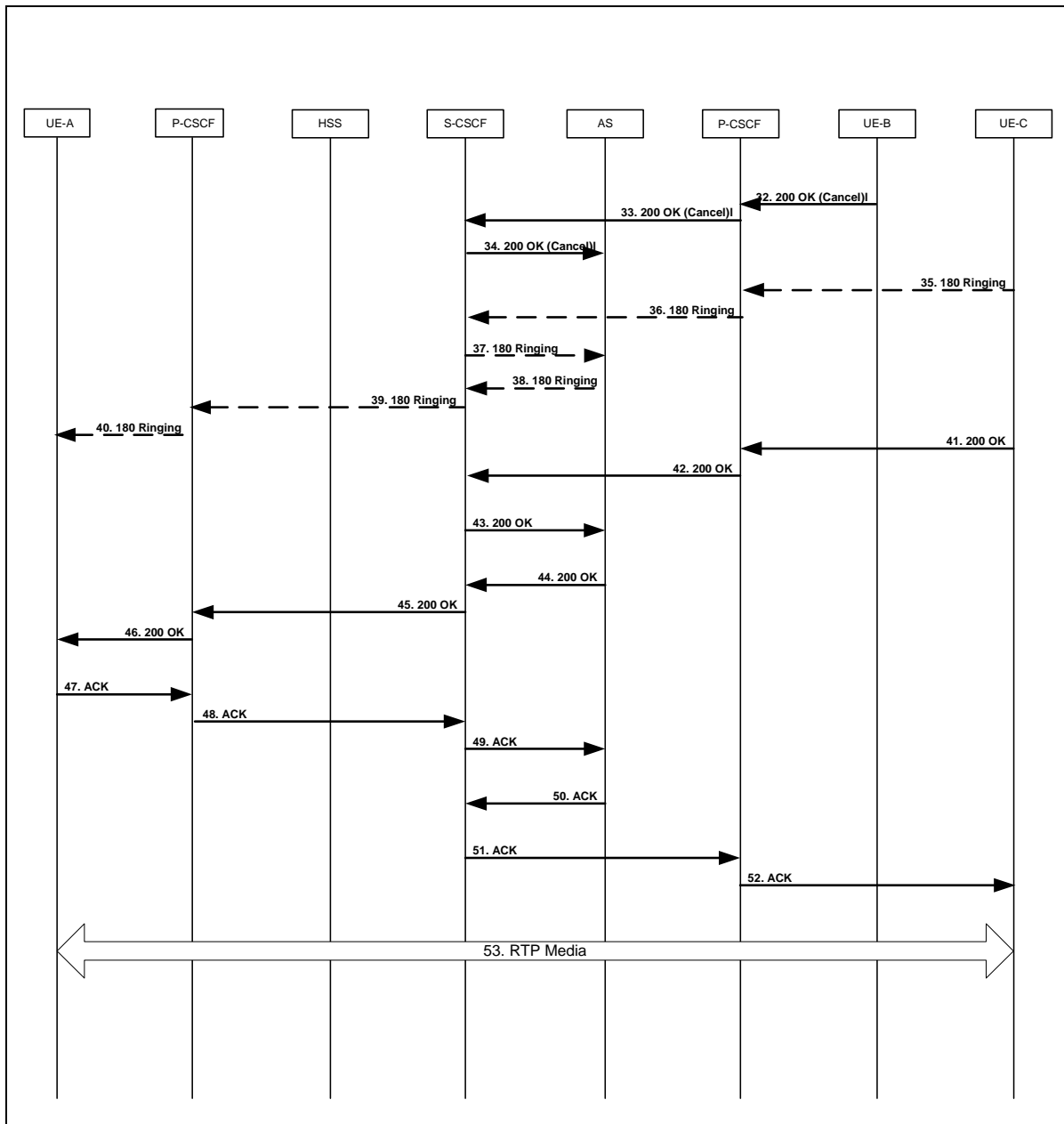
<b>SSS_XSSCFNR 04</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no) Served user communication retention on invocation of diversion (forwarding or deflection)= No.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding not reply supported.</li> <li>• CF Notifications supported.</li> </ul>	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition	
Comments:	Continued:	





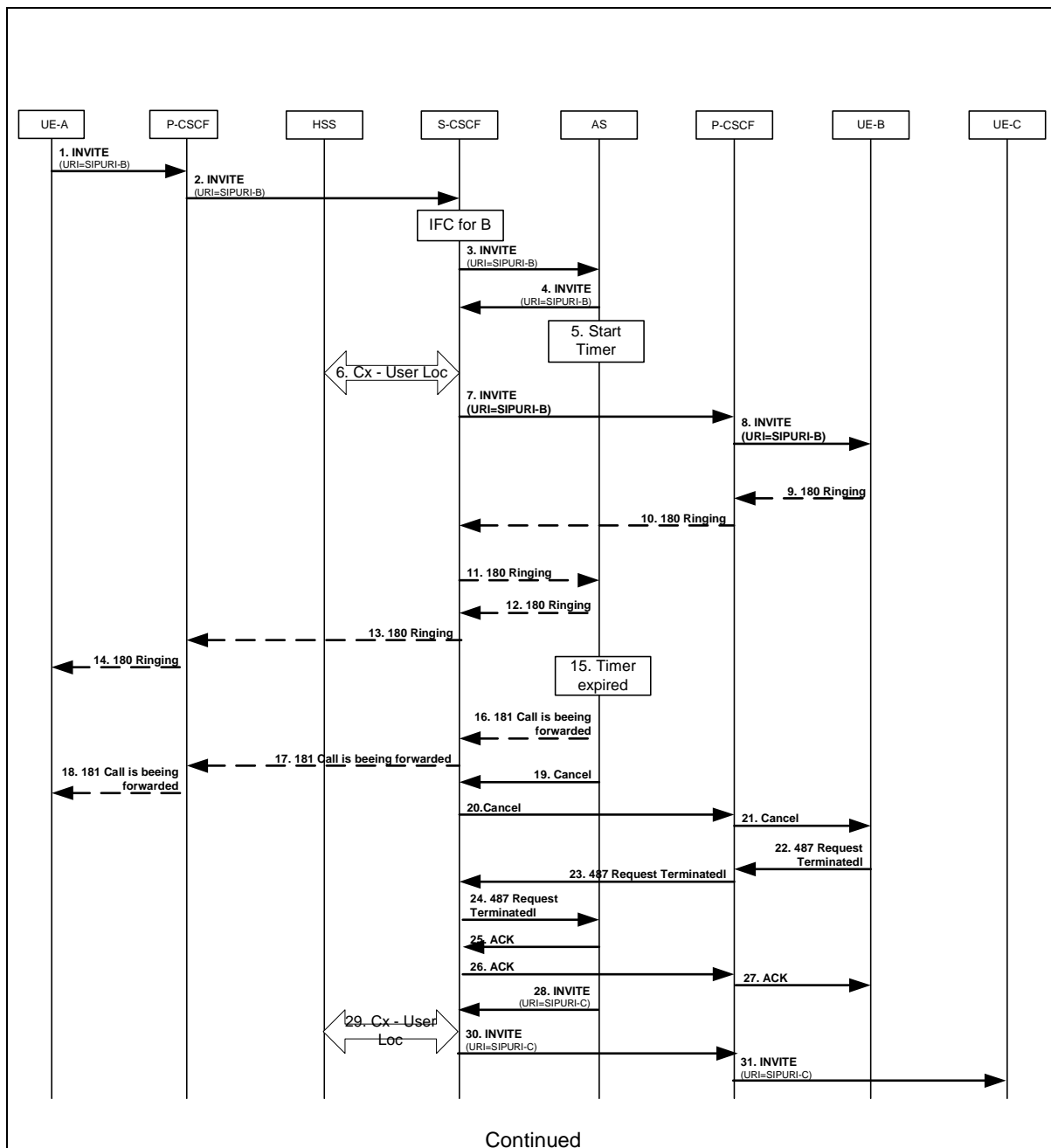
<b>SSS XXSSCFNR 05</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CFNR.</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFNR ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no); Served user communication retention on invocation of diversion (forwarding or deflection)= No.</p>
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding not reply supported.</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is not notified of call diversion and not informed of the diverted-to number (user C has presentation allowed – TIP) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion</p>
SIP Parameter values:	<p>Dial string parameters options=PIXIT  TYPE_SDP= PIXIT;  PIXIT for supported header:  Case a) No 100 rel;  Case b) Supported: 100 rel;  Case c) Supported: 100 rel and precondition.</p>
Comments:	Continued:

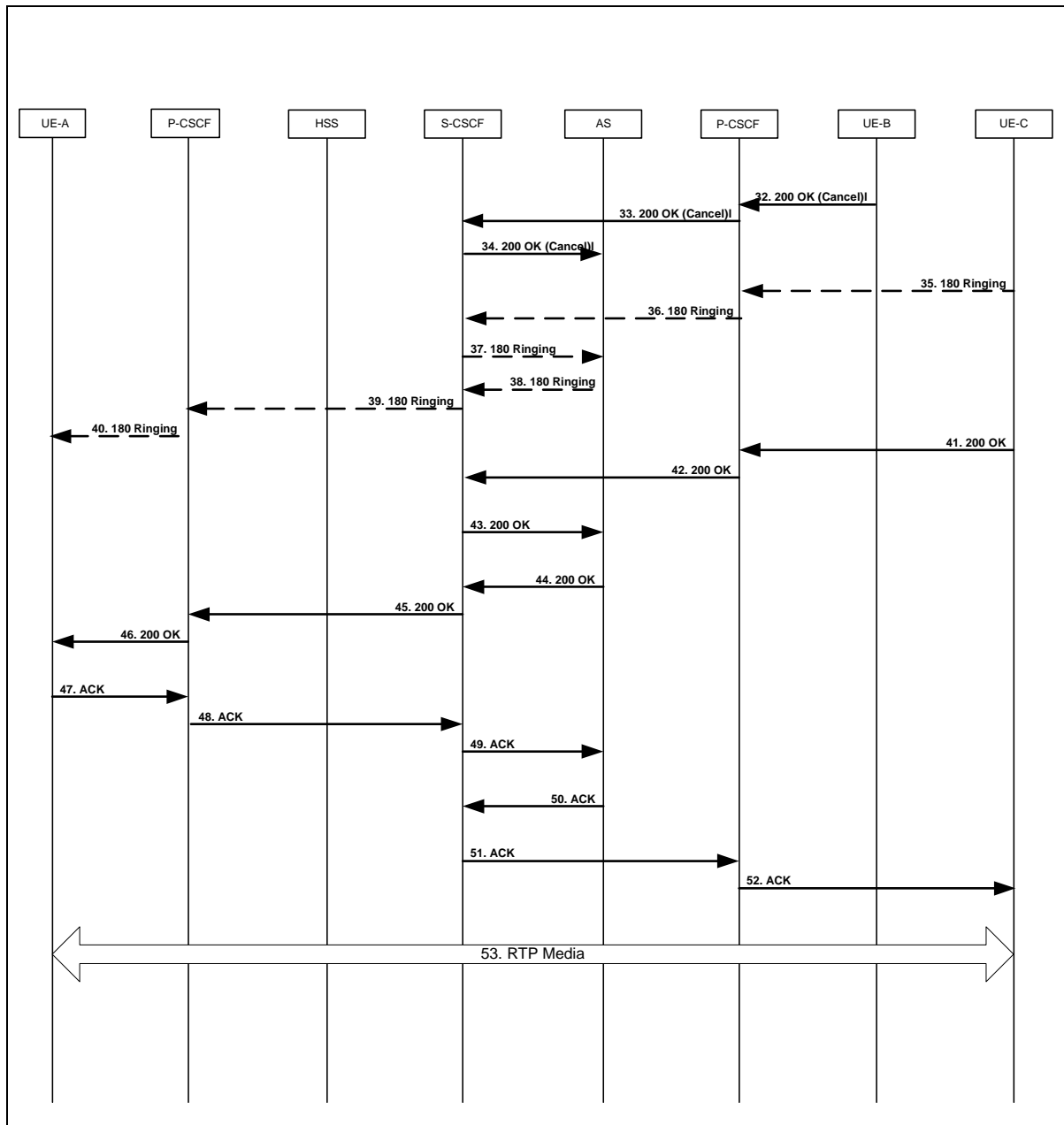




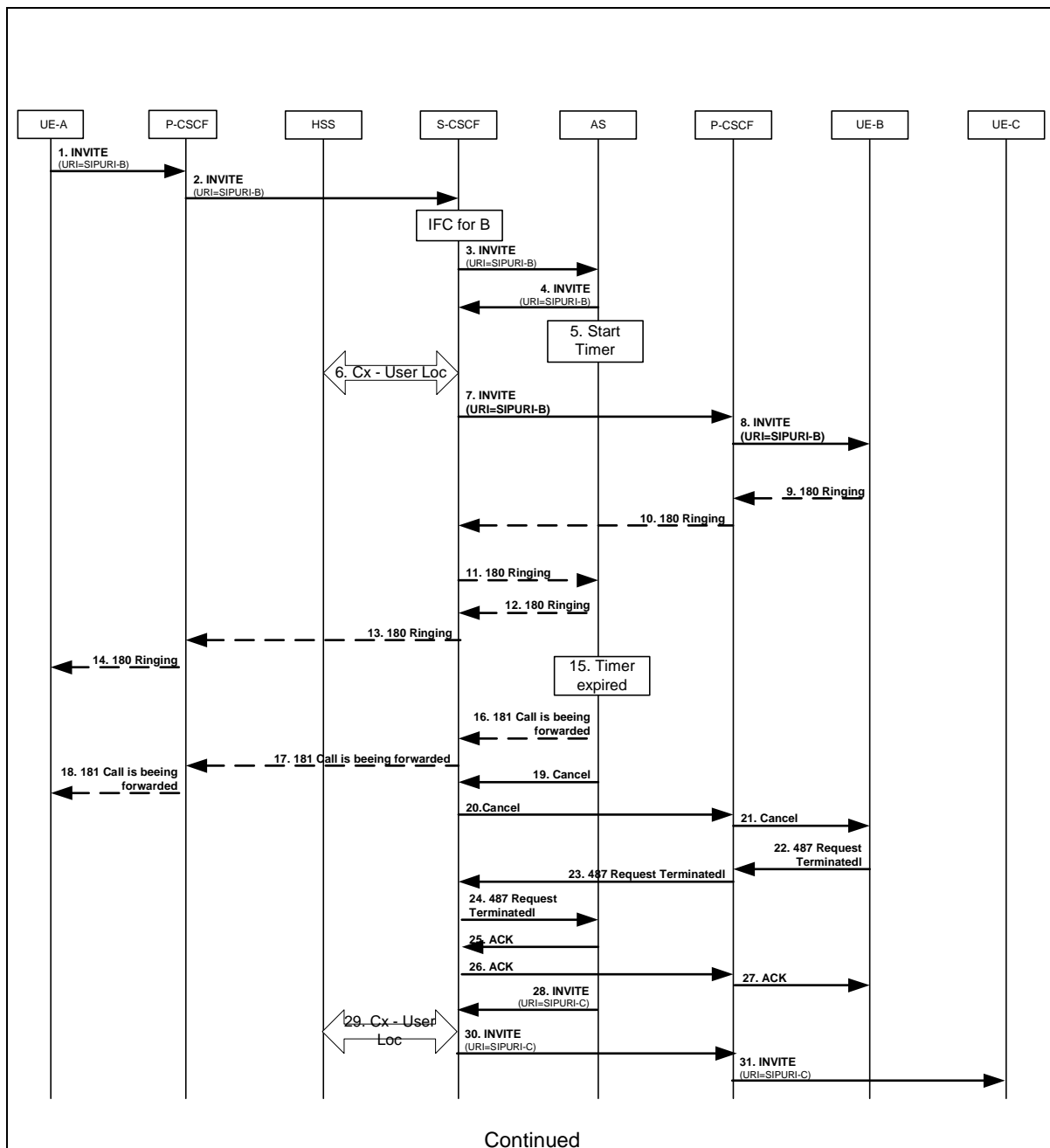
<b>SSS_XSSCFNR 06</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR/	
Configuration	The user A and the user C are in network N1. The user B is provided with CFNR.  Served user communication retention on invocation of diversion (forwarding or deflection)= Yes.	
Selection criteria:	<ul style="list-style-type: none"> <li>• CFNR supported: <ul style="list-style-type: none"> <li>○ CF Notifications supported.</li> </ul> </li> </ul>	
Test purpose:	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.  The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [2].	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	Continued	

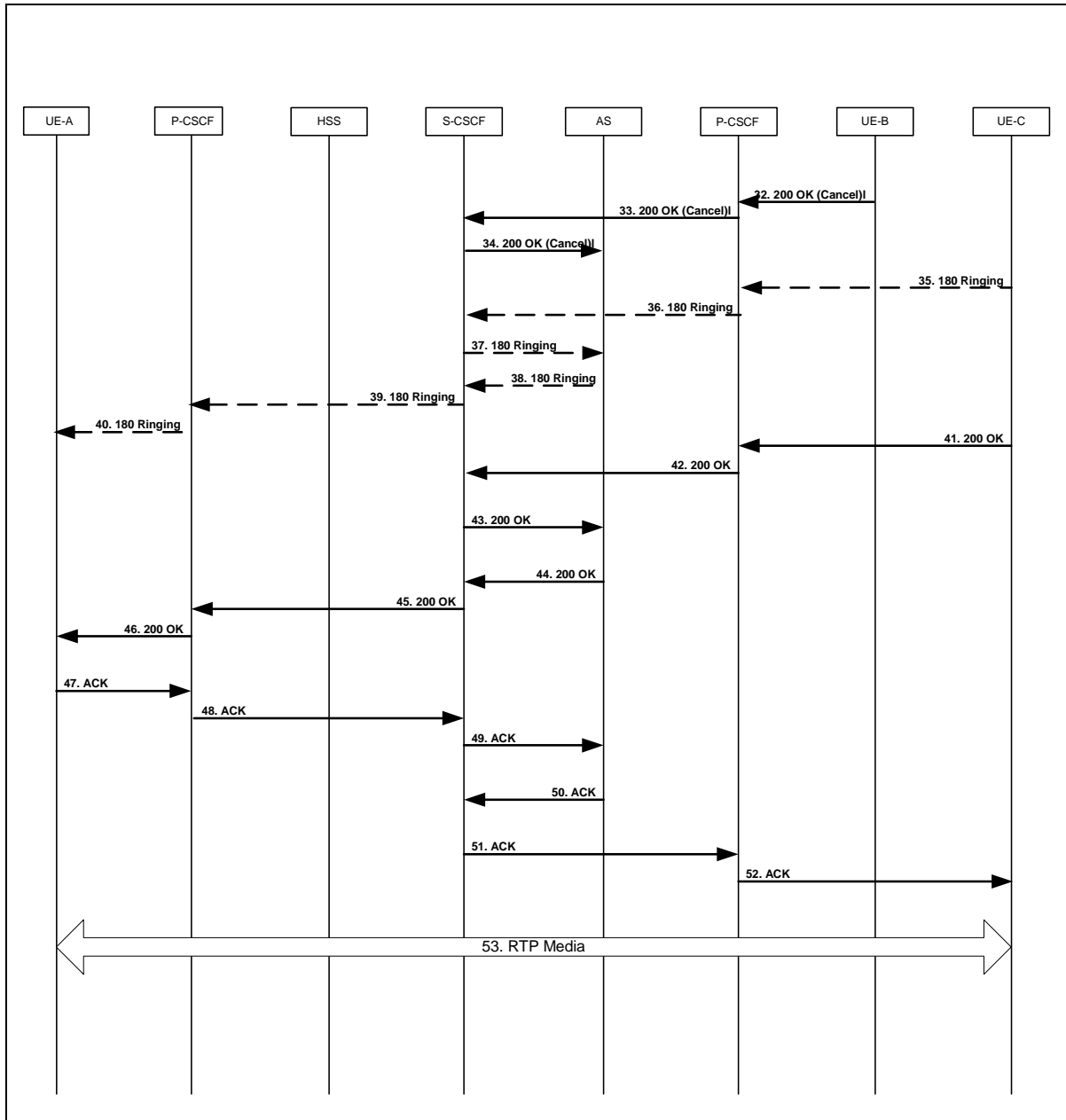




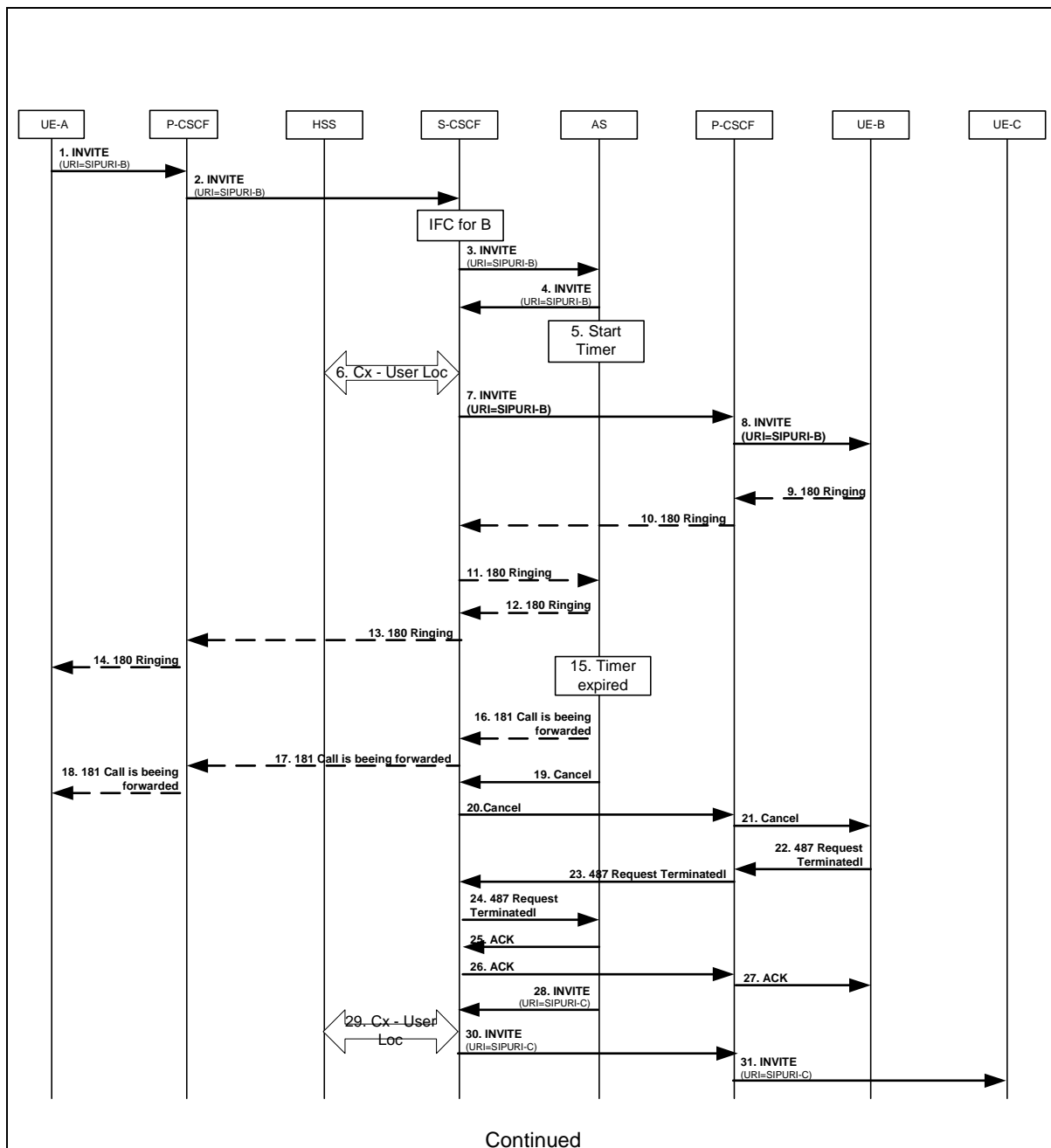


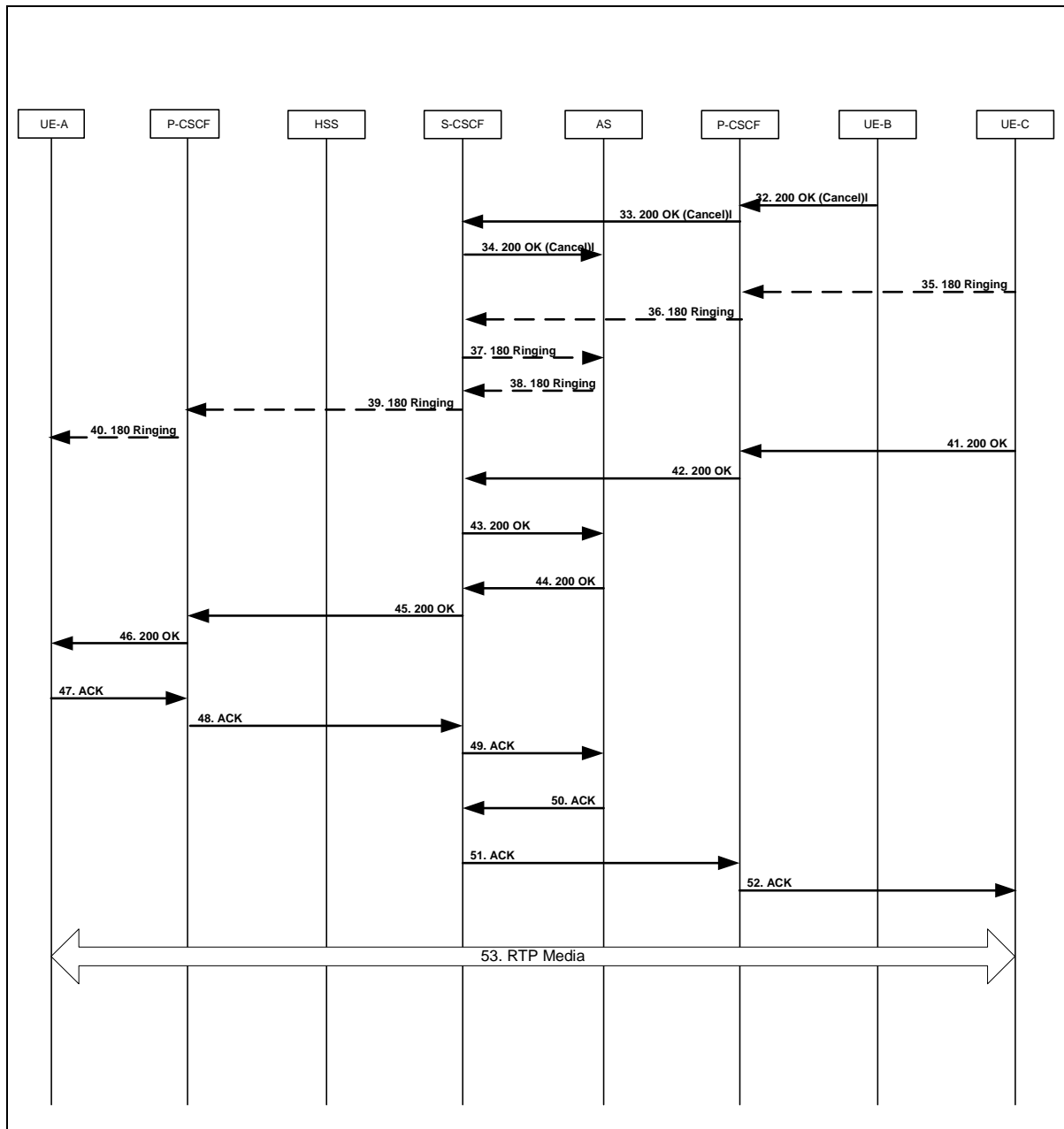
<b>SSS_XXSSCFNR 07</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR/	
Configuration	<p>The user A and the user C are in network N1. The user B is provided with CFNR</p> <p>("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =Yes, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes</p>	
Selection criteria:	<ul style="list-style-type: none"> <li>• CFNR supported: <ul style="list-style-type: none"> <li>○ CF Notifications supported.</li> </ul> </li> </ul>	
Test purpose:	<p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [2].</p> <p>User A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT</p> <p>TYPE_SDP= PIXIT;</p> <p>PIXIT for supported header:</p> <p>Case a) No 100 rel;</p> <p>Case b) Supported: 100 rel;</p> <p>Case c) Supported: 100 rel and precondition.</p>	
Comments:	Continued	





<b>SSS_XXSSCFNR 08</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR/	
Configuration	<p>The user A and the user C are in network N1. The user B is provided with CFNR</p> <p>("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes, "served user receives notification that the call has been forwarded" =No, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes</p>	
Selection criteria:	<ul style="list-style-type: none"> <li>• CFNR supported: <ul style="list-style-type: none"> <li>○ CF Notifications supported.</li> </ul> </li> </ul>	
Test purpose:	<p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [2].</p> <p>User A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT</p> <p>TYPE_SDP= PIXIT;</p> <p>PIXIT for supported header:</p> <p>Case a) No 100 rel;</p> <p>Case b) Supported: 100 rel;</p> <p>Case c) Supported: 100 rel and precondition.</p>	
Comments:	Continued	

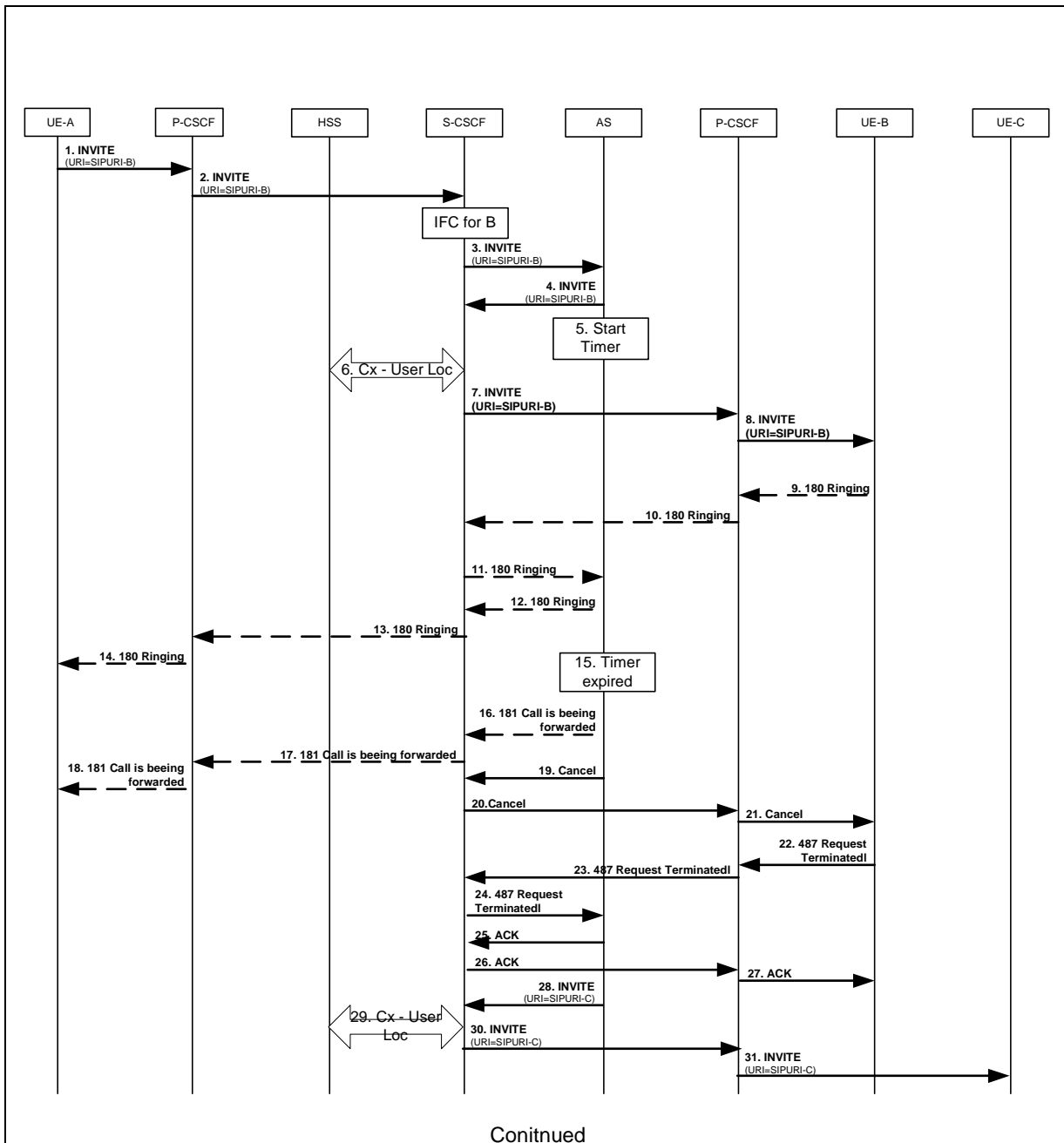


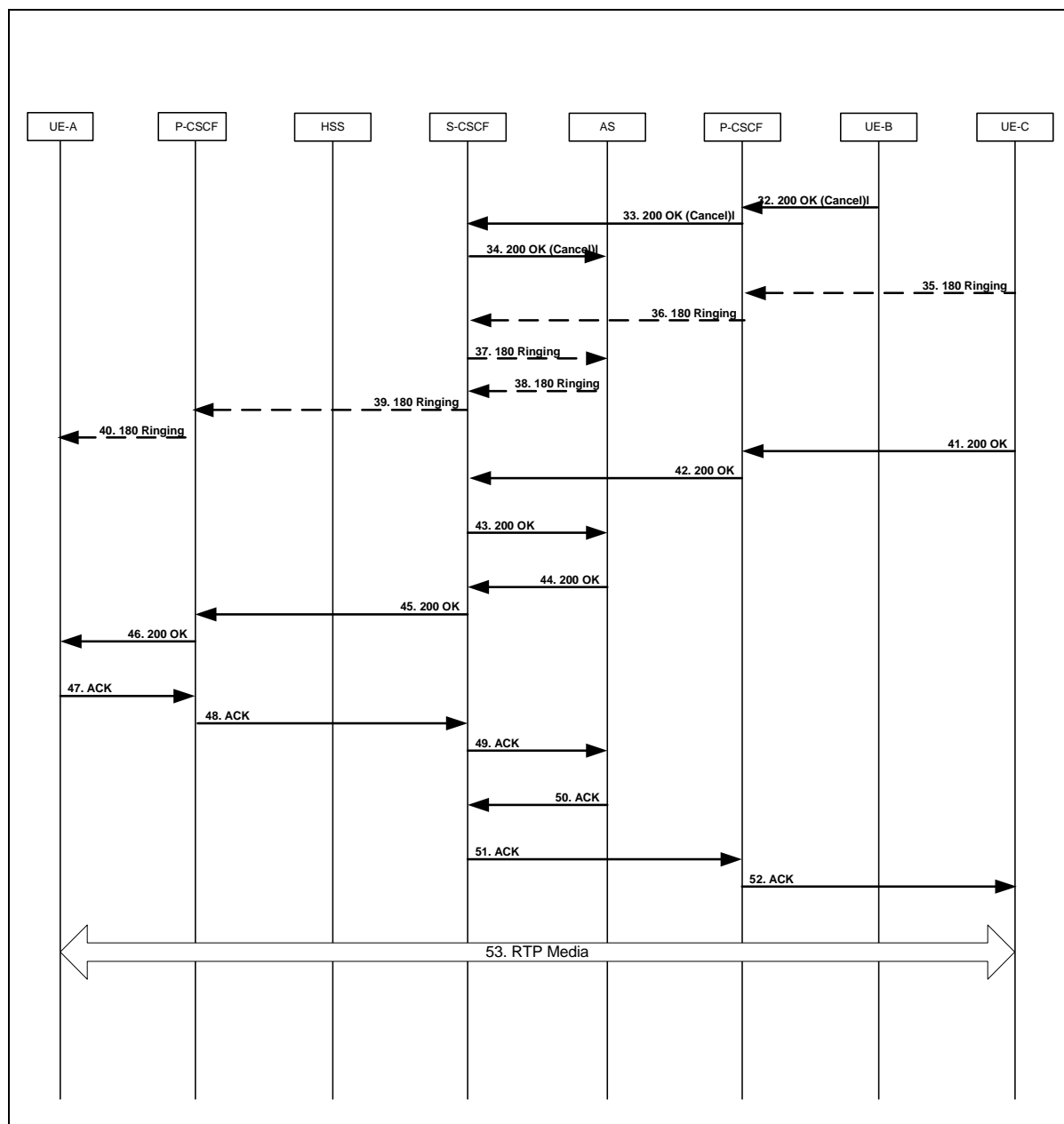




<b>SSS_XXSSCFNR 09</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no) Served user communication retention on invocation of diversion (forwarding or deflection)= Yes	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding not reply supported.</li> <li>• CF Notifications supported.</li> </ul>	
Test purpose:	<p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [2].</p> <p>User A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

<b>SSS_XXSSCFNR 10</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CFNR</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFNR ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No, "served user receives notification that the call has been forwarded" =no); Served user communication retention on invocation of diversion (forwarding or deflection)= Yes.</p>	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• Call forwarding not reply supported.</li> <li>• CF Notifications supported.</li> </ul>	
Test purpose:	<p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C</p> <p>The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [2].User A is not notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p style="text-align: center;">User B is not notified of call diversion.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:	Continued	





SSS_XSSCFNR 15	IMS reference to: [17]	NGN reference to: [17]
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= No [Clear call to the served user on invocation of call diversion].	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is user determined user busy.</li> </ul>	
Test purpose:	To verify that a call is released correctly if <b>CFNR was not successful</b> .  User A calls user B, the call is forwarded to user C who is <b>user</b> determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

<b>SSS__XXSSCFNR 16</b>	<b>IMS reference to: [17]</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= No	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>	
Test purpose:	To verify that a call is released correctly if CFNR was not successful.  User A calls user B, the call is forwarded to user C who is <b>network</b> determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

<b>SSS__XXSSCFNR 17</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user B is in network N2 and is provided with CFNR Served user communication retention on invocation of diversion (forwarding or deflection)= Yes	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is user determined user busy.</li> </ul>	
Test purpose:	User A calls user B, the call is forwarded to user C who is <b>user</b> determined user busy. The forwarding user User B continues to alert.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments:		

<b>SSS__XXSSCFNR 18</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>	
Test purpose:	User A calls user B, the call is forwarded to user C who is <b>network</b> determined user busy. The forwarding user User B continues to alert.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition	
Comments:		

<b>SSS XXSSCFNR 18</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR	
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>	
Test purpose:	<p>The served user subscribes to the CFNR simulation service; originating user is notified. Additionally an announcement is played.</p> <p>When Communication Diversion occurs and if the notification procedures of the originating user is supported then a 181 (Call Is Being Forwarded) response shall be sent towards the originating user.</p> <p>Additional the AS initiates an announcement to be included towards the calling user in order to inform about the diversion. Announcements shall be played according to procedures as are described in TS 183 028 [18].</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition <b>SIP header values:</b> 181 Call is Being Forwarded:	
Comments:		
<b>SIP#1</b>	<b>SUT</b>	<b>SIP#2 (served user)</b>
INVITE 1	→ INVITE	
180 Ringing	←	INVITE → INVITE 180 Ringing ← 180 Ringing CANCEL → CANCEL
181 Call is Being Forwarded	← 181 Call is Being Forwarded	→ INVITE ← 180 Ringing
180 Ringing	← 180 Ringing	← 200 OK (INVITE)
200 OK (INVITE)	← 200 OK (INVITE)	← 200 OK (INVITE)
ACK	→	→ ACK
	<b>Communication</b>	
BYE	→	→ BYE
200 OK (BYE)	←	← 200 OK (BYE)

<b>SSS XXSSCFNR 19</b>	<b>NGN reference to: [17] clause 4.5.2.6.3</b>																																						
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR																																						
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes																																						
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>																																						
Test purpose:	<p>The served user subscribes to the CFNR simulation service; Indication of communication diversion to the diverting user using the MESSAGE request triggered by a timer.</p> <p>Ensure that when the diverting user is registering the AS sends a MESSAGE request including the information where the call is diverted to. The MESSAGE request that is sent due to an timer value that can be provided by the user.</p>																																						
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition. <b>SIP header values:</b> 181 Call is Being Forwarded:																																						
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BYE	→		→ BYE																																				
200 OK (BYE)	←		← 200 OK (BYE)																																				

<b>SSS XXSSCFNR 21</b>	<b>NGN reference to: [17] clause 4.5.2.6.3</b>																																																										
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR																																																										
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes																																																										
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>																																																										
Test purpose:	<p><i>The served user subscribes to the CFNR simulation service; Indication of communication diversion to the diverting user using the MESSAGE request when a new outgoing communication is requested.</i></p> <p>Ensure that a diverting user will be informed with a MESSAGE request after the diverting user has initiated a new outgoing communication the information where the call is diverted to.</p>																																																										
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition. <b>SIP header values:</b> 181 Call is Being Forwarded:																																																										
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<b>SSS_XXSSCFNR 22</b>	<b>NGN reference to: [17] clause 4.5.2.6.3</b>																																						
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR																																						
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes																																						
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>																																						
Test purpose:	<p>The served user subscribes to the CFNR simulation service; Indication of communication diversion to the diverting user using a voicemail or mail system.</p> <p>Ensure that when communication diversion is performed, the AS sends Voicemail or Message mail system including the information where the call is diverted to.</p>																																						
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<b>SSS XXSSCFNR 23</b>	<b>NGN reference to: [17] clause 4.5.2.6.3</b>																																		
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR																																		
Configuration	The user B is in network N2 and is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection)= Yes																																		
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNR supported.</li> <li>• user C is network determined user busy.</li> </ul>																																		
Test purpose:	<p>The served user subscribes to the CFNR simulation service; Indication of communication diversion to the diverting user using a voicemail or mail system requested by a timer.</p> <p>Ensure that when communication diversion is performed, the AS sends a Voicemail or Message mail system request including the information where the call is diverted to. The Voicemail or Message mail system shall be sent due to a timer value that can be provided by the user.</p>																																		
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																		
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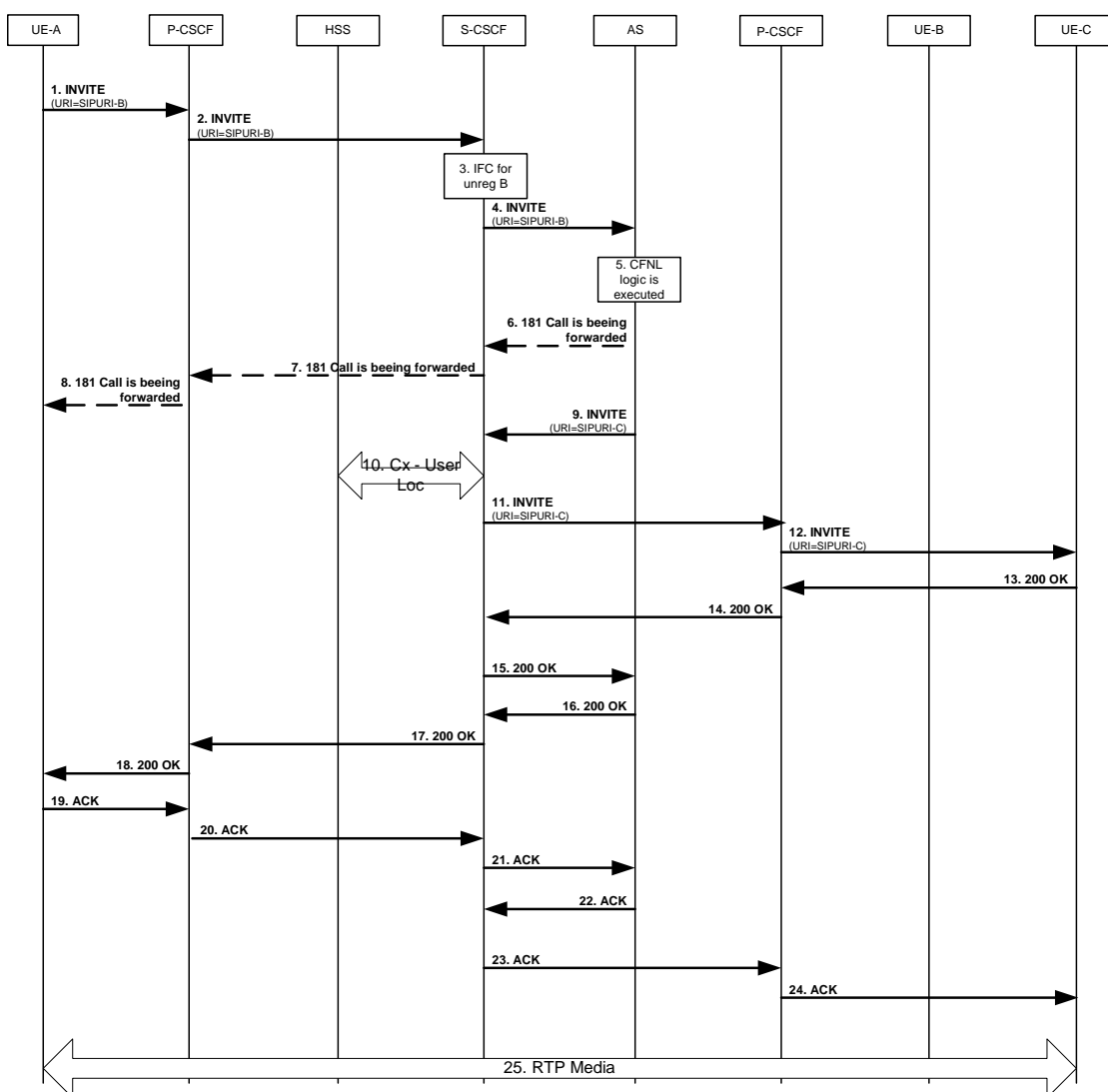
<b>SSS_XXSSCFNR 24</b>	<b>NGN reference to: [17] clause 4.5.2.6.3</b>																																																																			
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNR																																																																			
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Test purpose:	<p>The served user subscribes to the CFNR simulation service; periodically indication of communication diversion to the diverting user using a voicemail or mail system.</p> <p>Ensure that when communication diversion is performed. the AS sends a Voicemail or Message mail system request including the information where the call is diverted to. The diverting user will be informed periodically with Voicemail or Message mail system with the information where the call is diverted to.</p>																																																																			
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Test purpose:	<p>The served user subscribes to the CFNR simulation service; Indication of a new communication diversion to the diverting user using a voicemail or mail system.</p> <p>Ensure that a diverting user will be informed with Message Voicemail or Message mail system after the diverting user has initiated a new outgoing communication the information where the call is diverted to.</p>																																																										
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6.5.2.9 CFNL

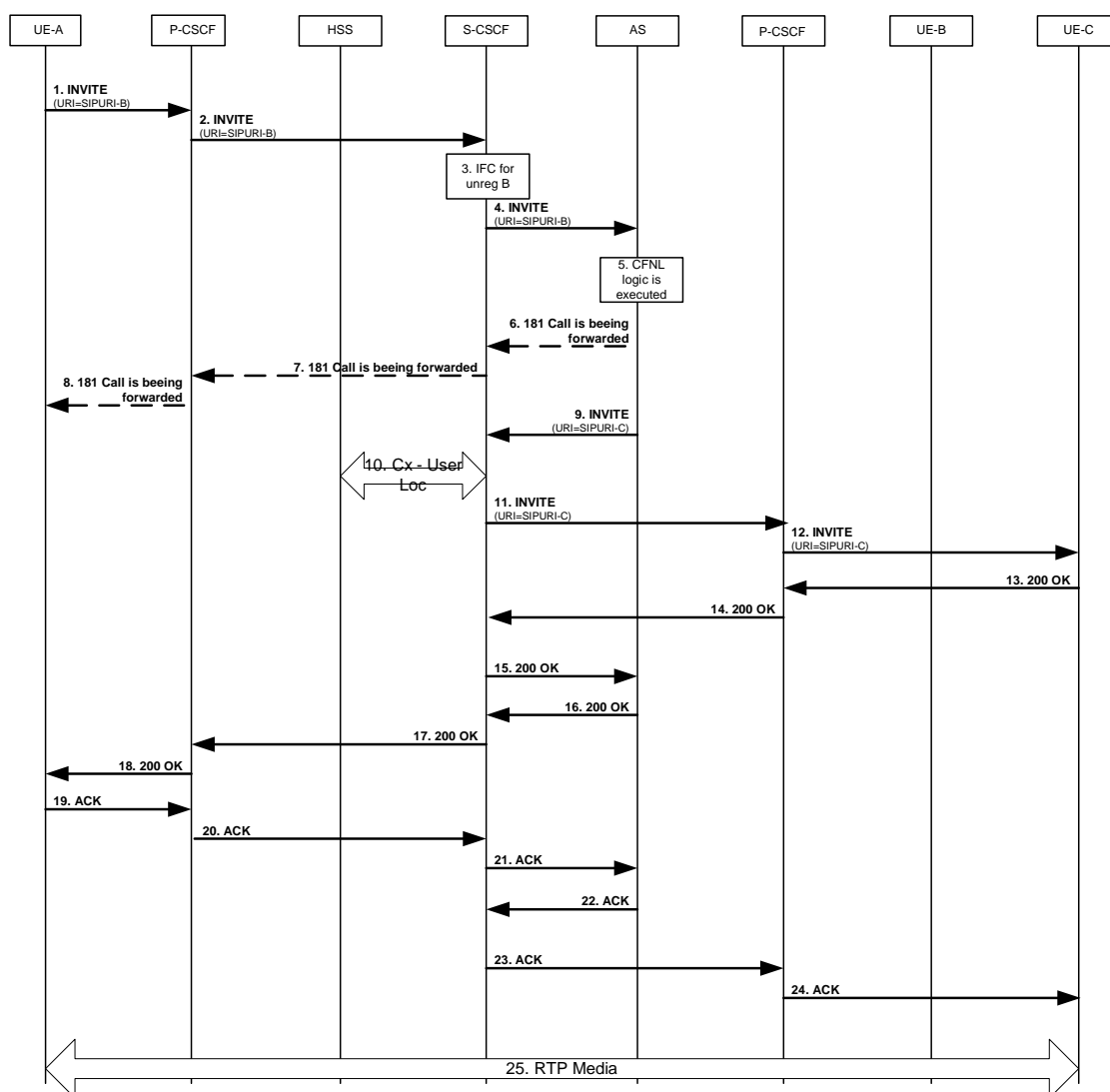
<b>SSS_XXSSCFNL 01</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CFNL
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNL
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network:                             <ul style="list-style-type: none"> <li>○ CFNL supported.</li> </ul> </li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C. Ensure that in the active call state the voice transfer on the media channels is performed correctly (e.g. testing QoS parameters).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:

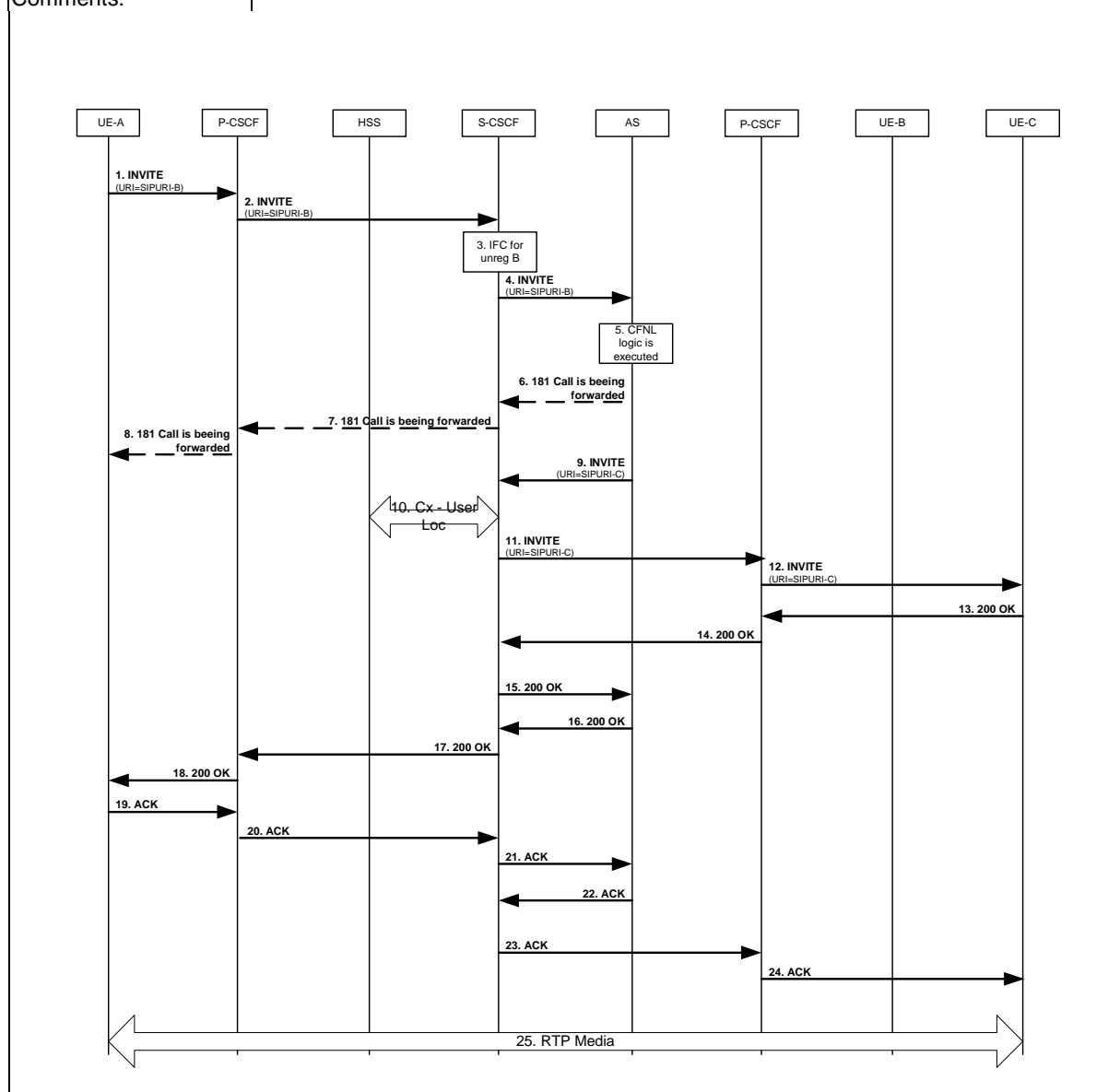


<b>SSS XXSSCFNL 02</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNL.
Configuration	The user A and the user C are in network N1. The user B is provided with CFNL. ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNL supported.</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

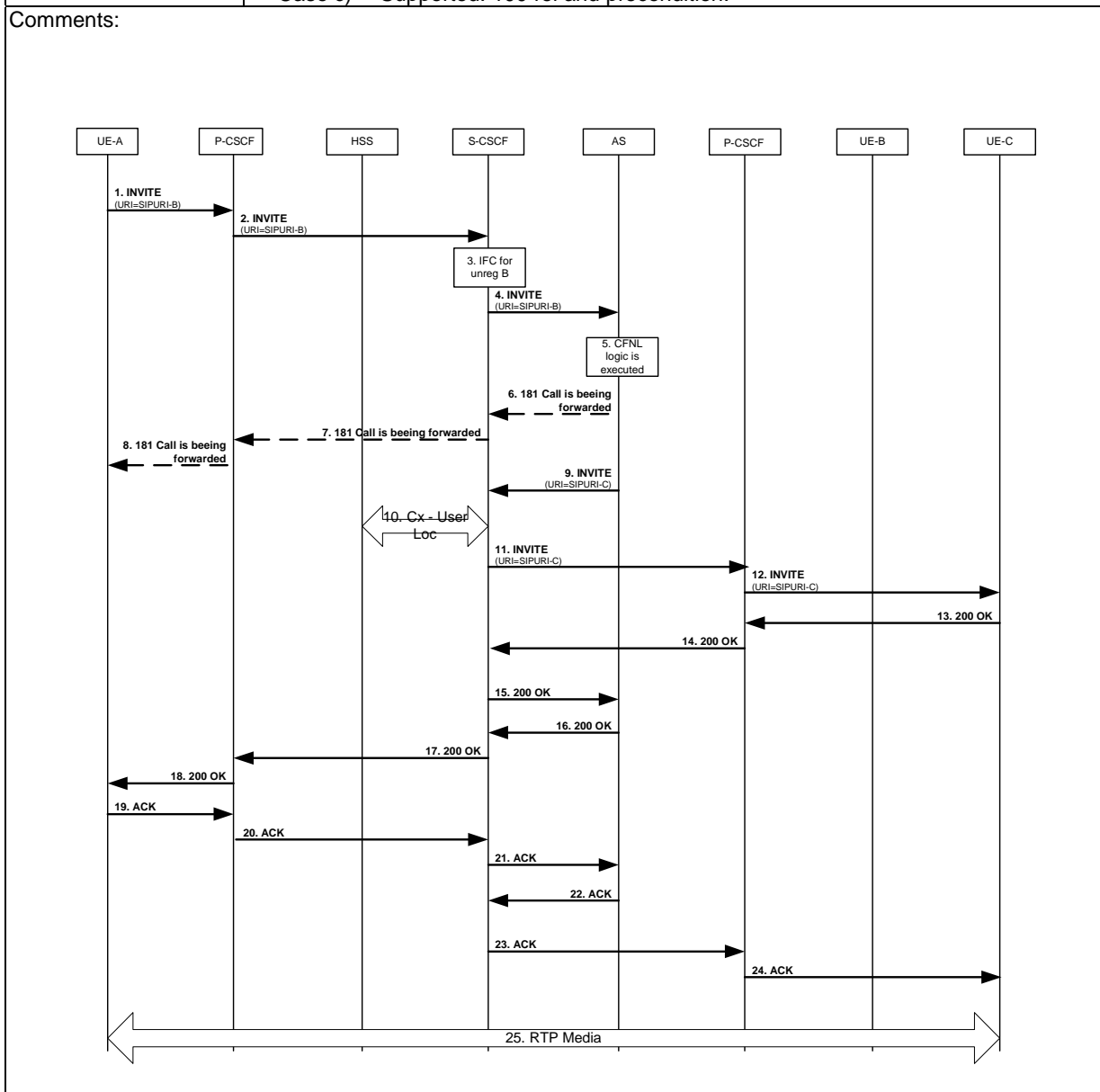
Comments:



<b>SSS XXSSCFNL 03</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNL
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNL ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No).
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNL supported.</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	<p>Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).</p> <p>User B is not notified of call diversion.</p>
SIP Parameter values:	<p>Dial string parameters options=PIXIT                  TYPE_SDP= PIXIT;                  PIXIT for supported header:                  Case a) No 100 rel;                  Case b) Supported: 100 rel;                  Case c) Supported: 100 rel and precondition.</p>
Comments:	

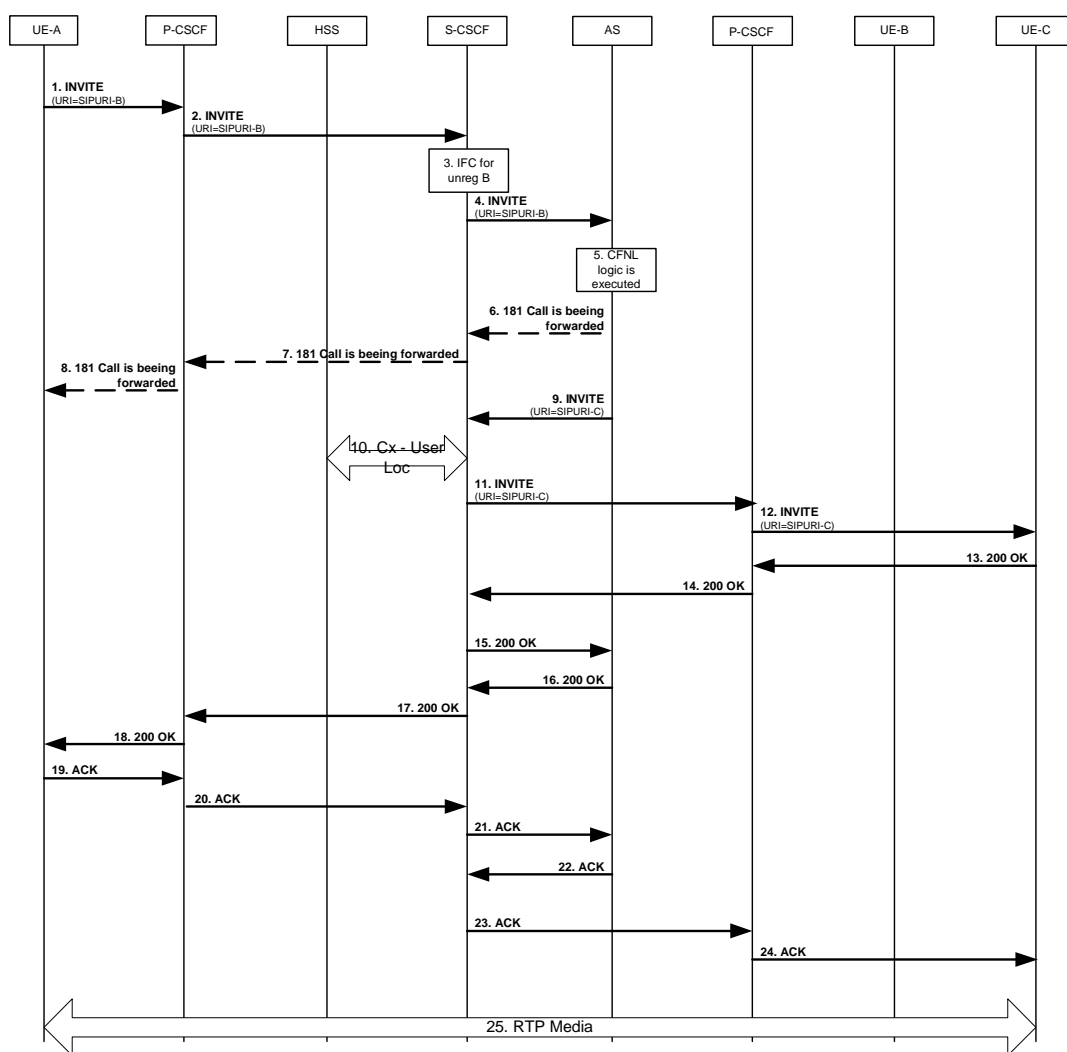


<b>SSS_XXSSCFNL 04</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNL.
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CFNL.</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFNL ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No).</p>
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNL supported.</li> <li>• CF Notifications supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is not notified of call diversion and not informed of the diverted-to number (user C has TIP) and user C is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion
SIP Parameter values:	<p>Dial string parameters options=PIXIT                  TYPE_SDP= PIXIT;                  PIXIT for supported header:                  Case a) No 100 rel;                  Case b) Supported: 100 rel;                  Case c) Supported: 100 rel and precondition.</p>



<b>SSS_XXSSCFNL 05</b>	<b>IMS reference to: [17]</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNL.	
Configuration	The user B is in network N2 and is provided with CFNL.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNL supported.</li> <li>• user C is user determined user busy.</li> </ul>	
Test purpose:	To verify that a call is released correctly if <b>CFNL was not successful</b> .  User A calls user B, the call is forwarded to user C who is <b>user</b> determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	

Comments:



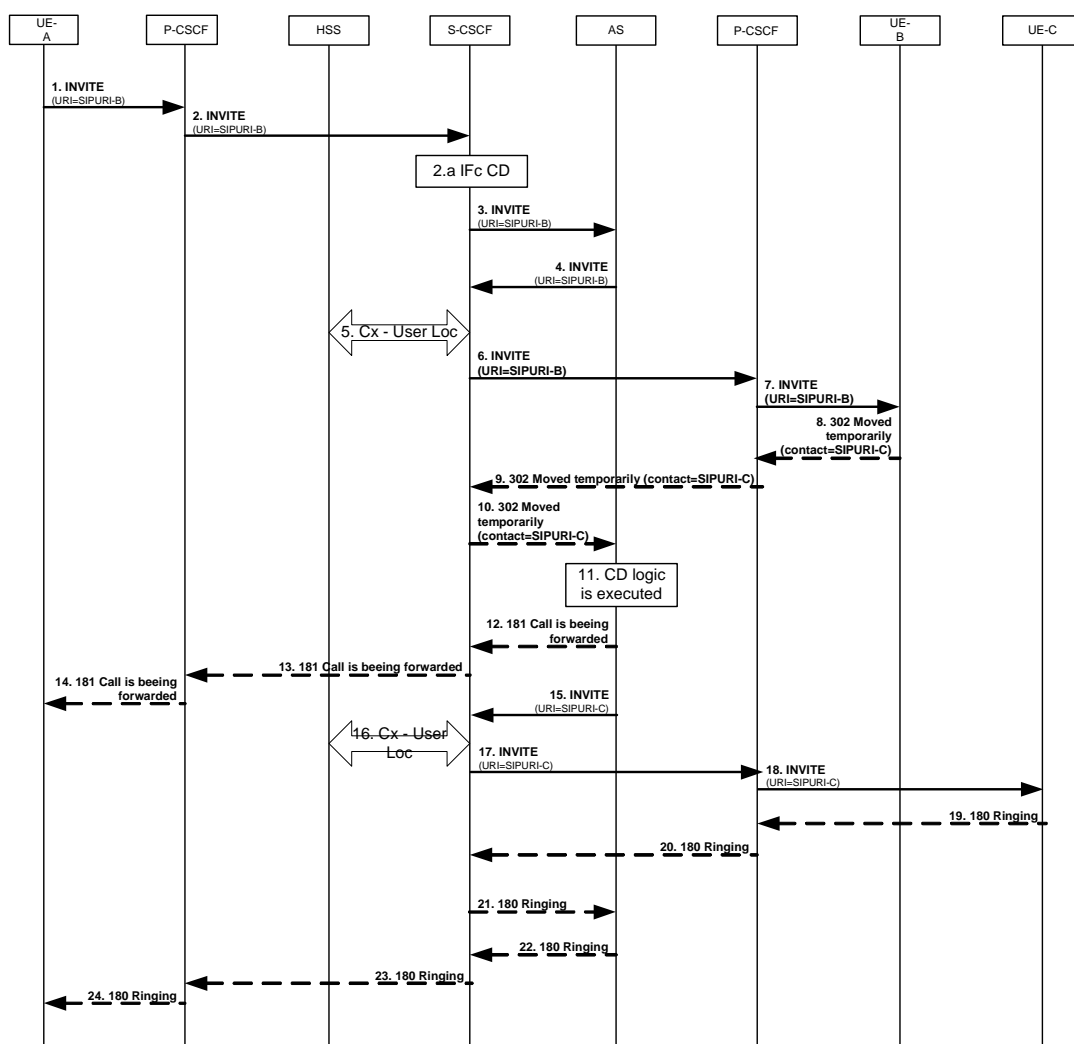


<b>SSS_XXSSCFNL 06</b>	<b>NGN reference to: [17]</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/CFNL.	
Configuration	The user B is in network N2 and is provided with CFNL.	
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding by the network.</li> <li>• CFNL supported.</li> <li>• user C is network determined user busy.</li> </ul>	
Test purpose:	<p>To verify that a call is released correctly if CFNL was not successful.</p> <p>User A calls user B, the call is forwarded to user C who is <b>network</b> determined user busy.</p>	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.	
Comments		

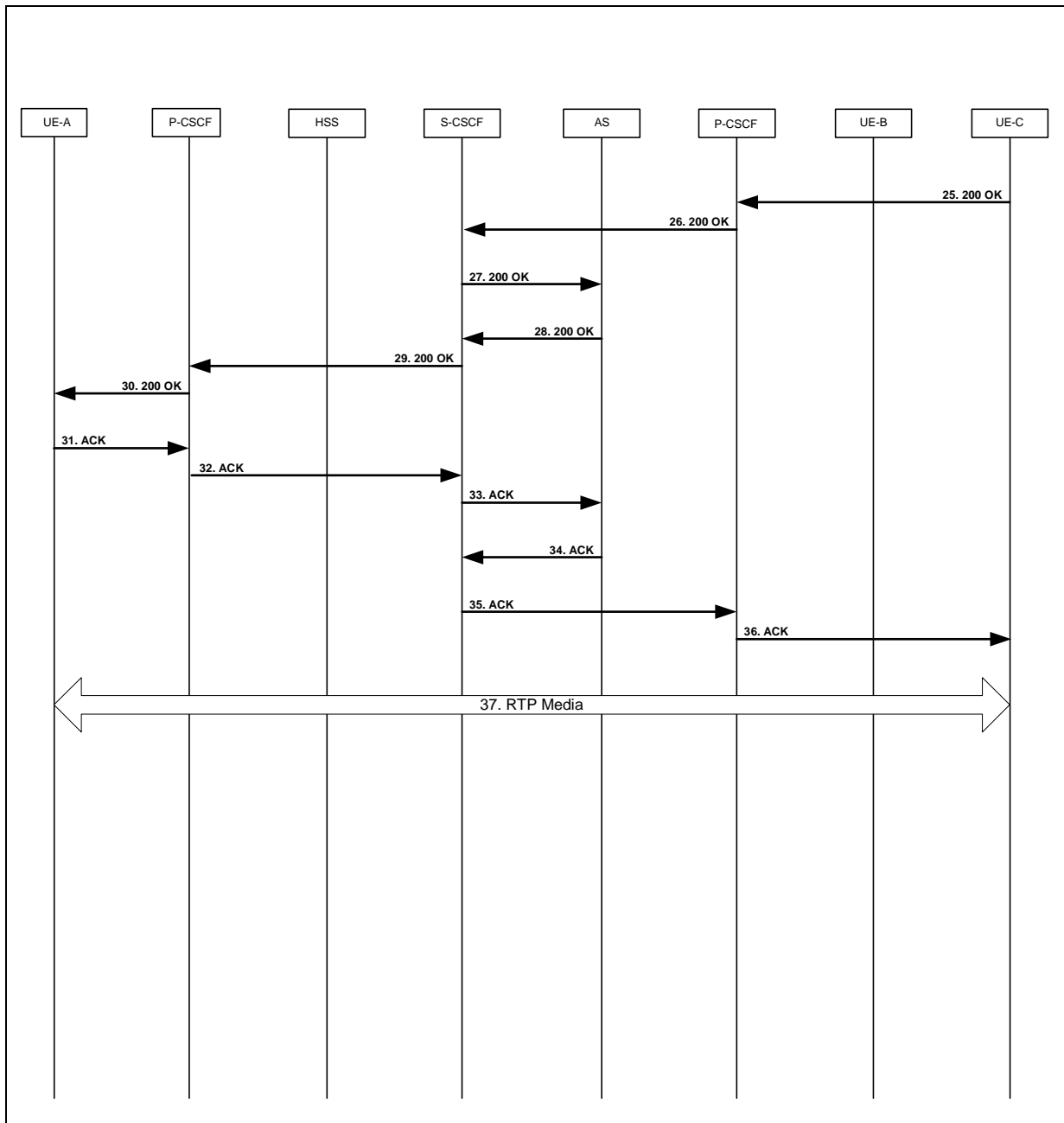
6.5.2.10 CALL DEFLECTION

<b>SSS__XXSSCD 01</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CD- Immediate response.
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD- Immediate response.
Selection criteria:	<ul style="list-style-type: none"> <li>User B has activated the CALL DEFLECTION service.</li> <li>Call forwarding unconditional supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C.
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

Comments:

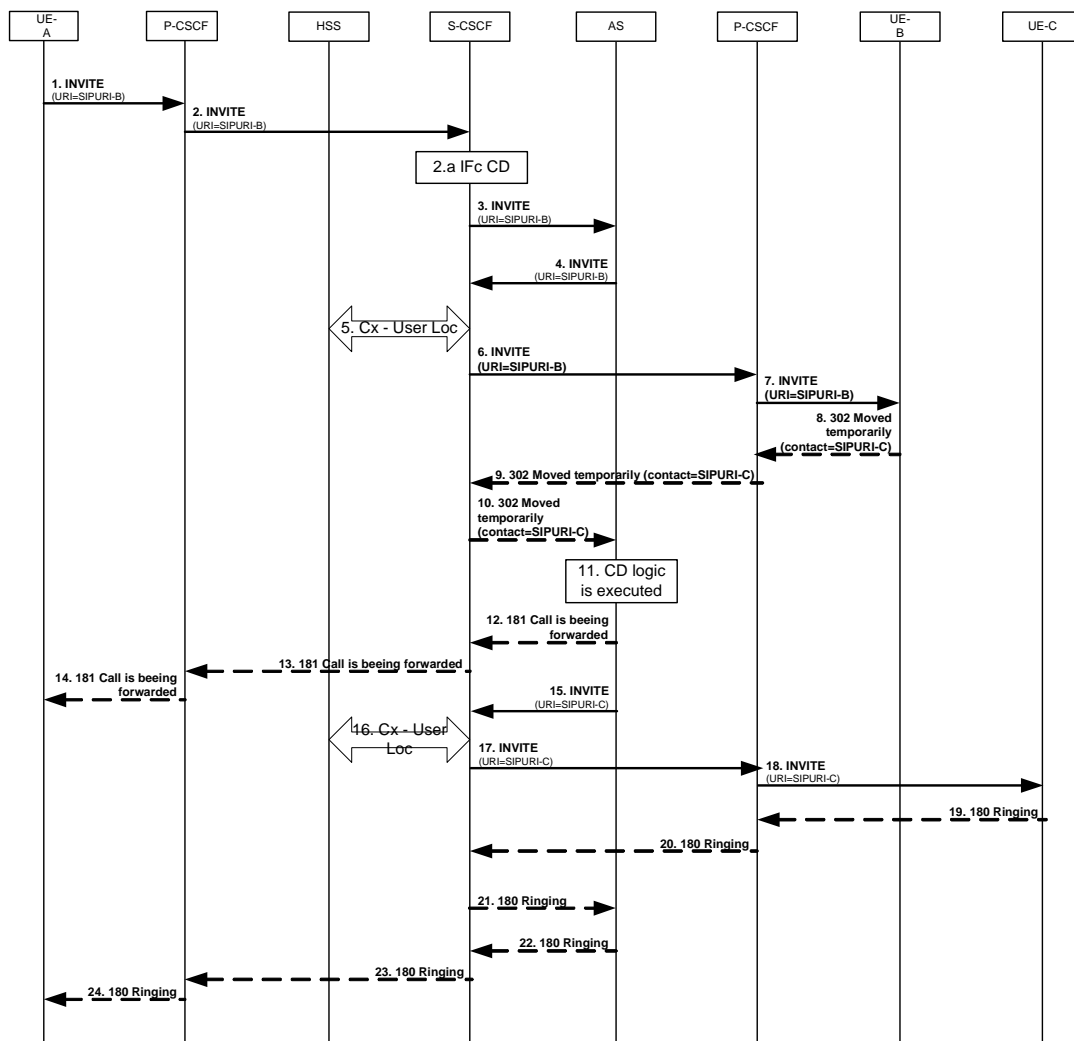


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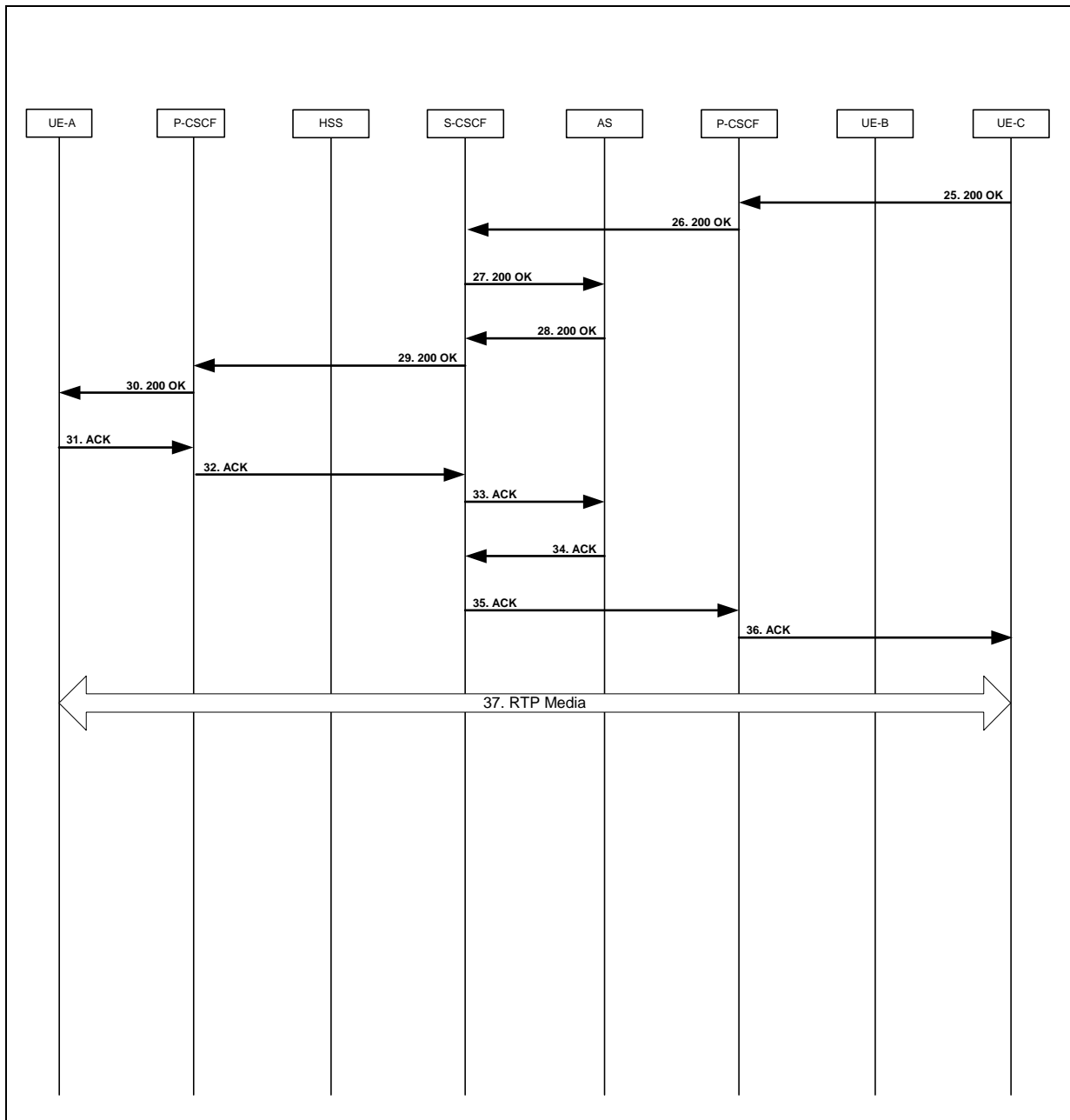


<b>SSS_XXSSCD 02</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CD- Immediate response.
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD- Immediate response ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=Yes).
Selection criteria:	<ul style="list-style-type: none"> <li>• User B has activated the CALL DEFLECTION service.</li> <li>• Call forwarding unconditional supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no TIR) and user C is informed of the forwarding number (user B has presentation allowed).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.

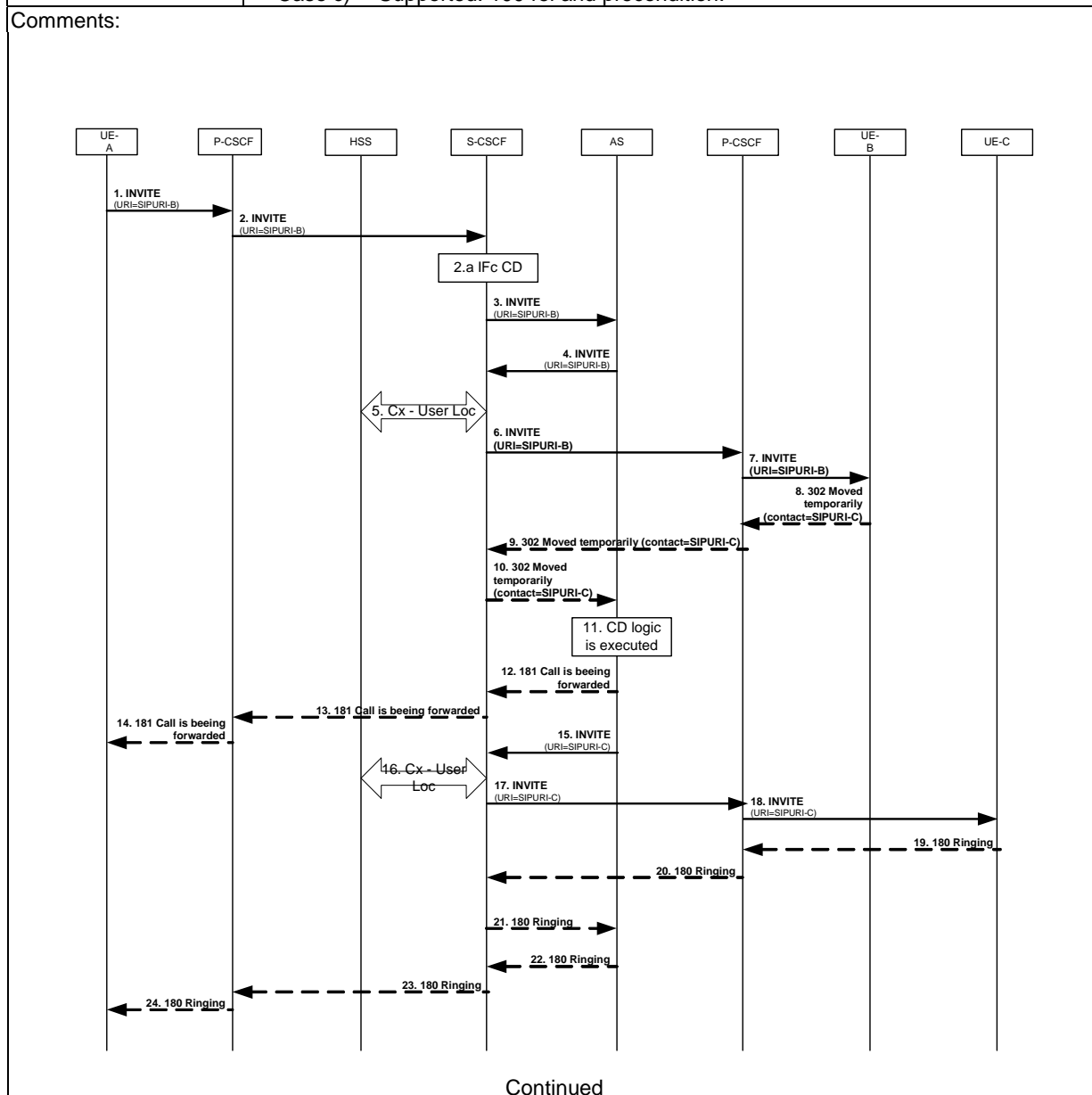
Comments:

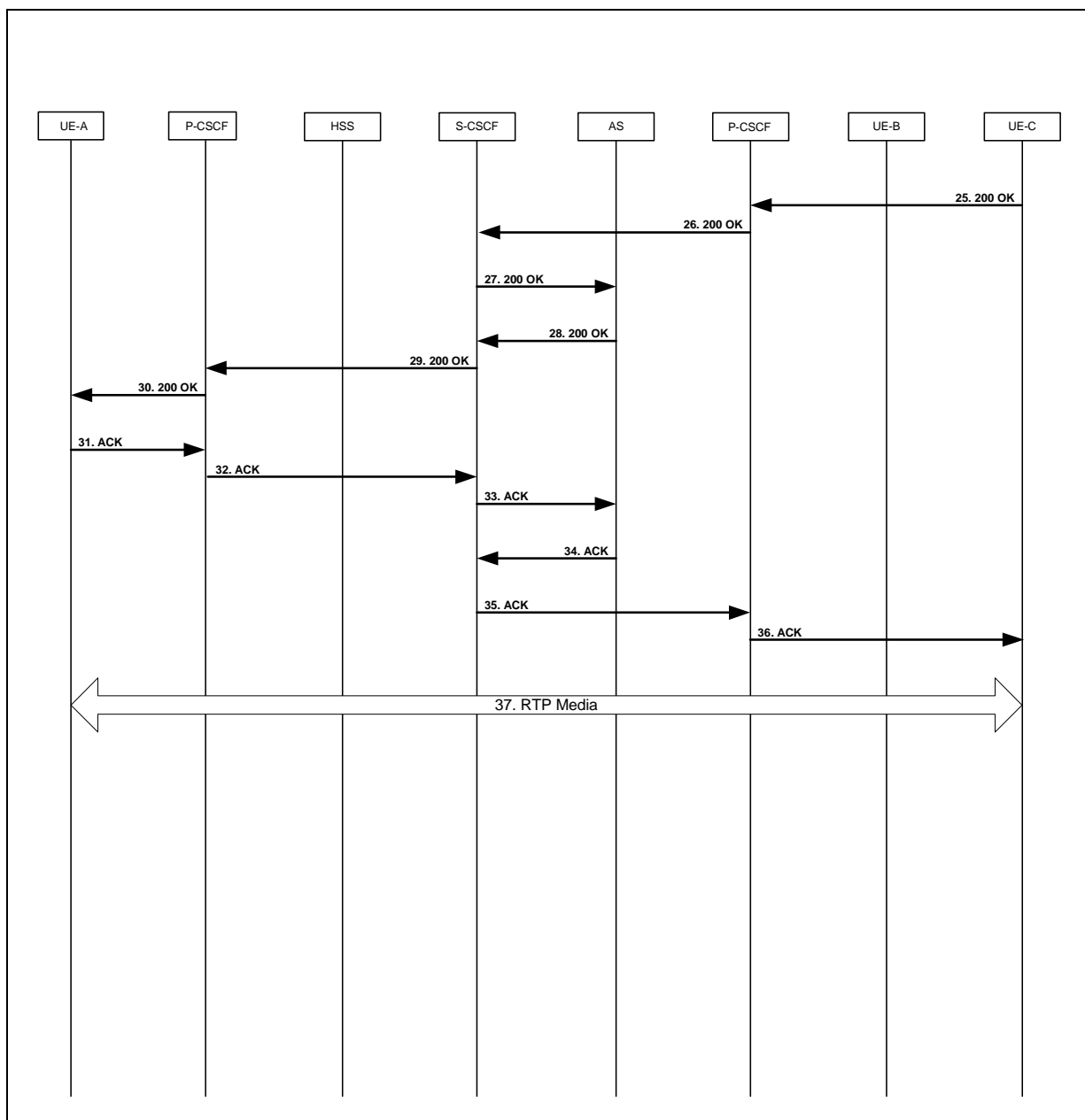


Continued



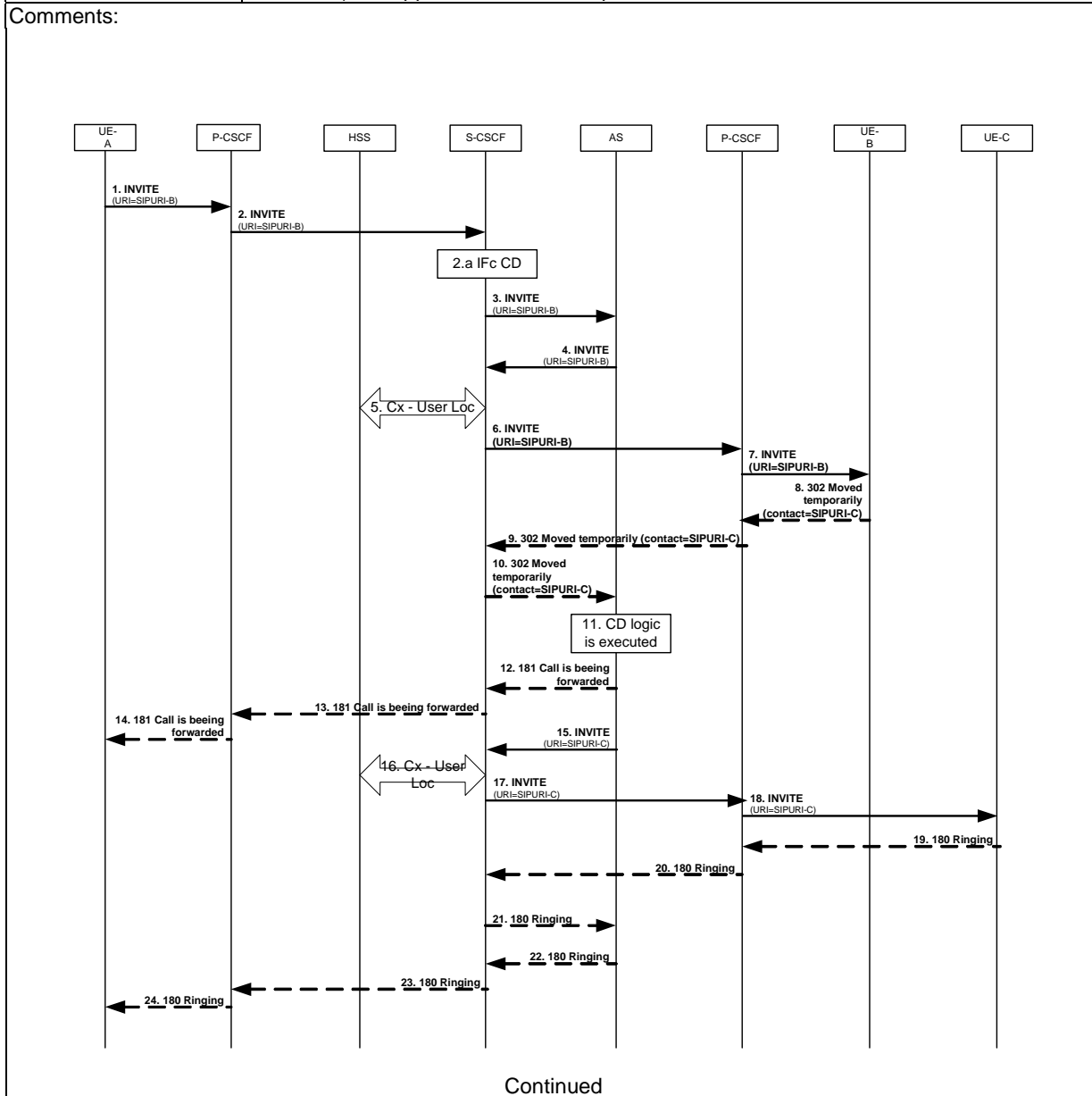
<b>SSS_XXSSCD 03</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CD- Immediate response.
Configuration	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD- Immediate response ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=Yes, "diverting number is released to the diverted-to user"=No).
Selection criteria:	<ul style="list-style-type: none"> <li>• User B has activated the CALL DEFLECTION service.</li> <li>• Call forwarding unconditional supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed – TIR) and user C is not informed of the forwarding number (user B has presentation not allowed).
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.



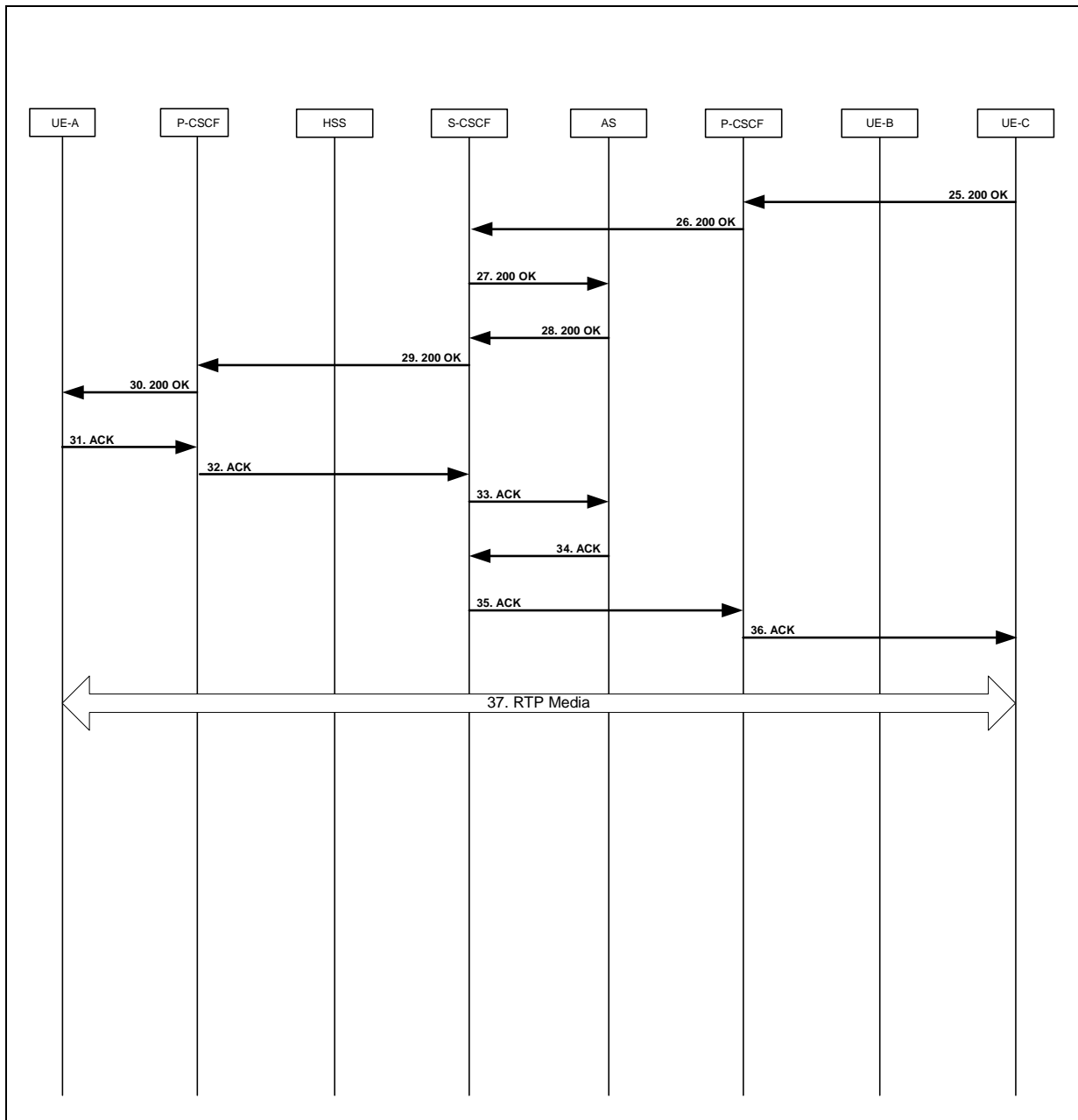


<b>SSS_XXSSCD 04</b>	<b>NGN reference to: [17]</b>
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CD- Immediate response.
Configuration	<p>The user A and the user C and D are in network N1. The user B is in network N2 and is provided with CD- Immediate response.</p> <p>The user A and the user C are in network N1 and user C is provided with TIP. The user B is in network N2 and is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification"=No, "diverting number is released to the diverted-to user"=No).</p>
Selection criteria:	<ul style="list-style-type: none"> <li>• User B has activated the CALL DEFLECTION service.</li> <li>• Call forwarding unconditional supported.</li> </ul>
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is not notified of call diversion and not informed of the diverted-to number (user C has TIP) and user C is not informed of the forwarding number (user B has presentation not allowed).

<b>SSS_XXSSCD 04</b>	<b>NGN reference to: [17]</b>
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.









<b>SSS_XXSSCD 06</b>	<b>NGN reference to: [17]</b>																																																																																																																																																																																														
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CD- Immediate response CD- Immediate response.																																																																																																																																																																																														
Configuration	The user B is in network N2 and is provided with CD- Immediate response.																																																																																																																																																																																														
Selection criteria:	<ul style="list-style-type: none"> <li>• Call forwarding unconditional supported.</li> <li>• user C is network determined network busy.</li> <li>• User B has activated the CALL DEFLECTION service.</li> </ul>																																																																																																																																																																																														
Test purpose:	To verify that a call is released correctly if CALL DEFLECTION was not successful.  User A calls user B, the call is forwarded to user C who is <b>network</b> determined user busy.																																																																																																																																																																																														
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.																																																																																																																																																																																														
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## 6.5.2.11 CONF

## 6.5.2.11.1 Conference creation

<b>SSS_XXSSCONF_CRE_001</b>	<b>NGN reference to: [20] clause 5.3.1.3.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_servicesCONF	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p>Conference creation by Three-way session creation. REFER request to the user, Conference event package is subscribed.</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 event package is subscribed. The conference participant shall perform the following steps:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> <p>The SIP#1 releases the session 1 and 2 after the UE was informed concerned the session to the focus is established by SIP#2 and SIP#3.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header:</p> <p>Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p> <p>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>SUBSCRIBE: Request URI contained the conference URI header contains "conference"</p> <p>REFER: Refer-to header contains the conference URI</p> <p>NOTIFY 1 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b></p> <p>NOTIFY 2 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b></p> <p>NOTIFY 3 Event contains <b>conference</b>; Subscription-State contains <b>active</b> application/conference-info+xml contains connected, dialled-in</p> <p>NOTIFY 4 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b></p> <p>NOTIFY 5 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b></p> <p>NOTIFY 6 Event contains <b>conference</b>; Subscription-State contains <b>active</b> application/conference-info+xml contains connected, dialled-in</p>	
Continued		

Comments:				
SIP#1		Focus	SIP#2	SIP#3
Establishment of session #1				
INVITE	→		→ INVITE	
180 Ringing	←		← 180 Ringing	
200 OK (INVITE)	←		← 200 OK (INVITE)	
ACK	→		→ ACK	
INVITE (sendonly)	→		→ INVITE (sendonly)	
200 OK (recvonly)	←		← 200 OK (recvonly)	
ACK	→		→ ACK	
Establishment of session #2				
INVITE	→			→ INVITE
180 Ringing	←			← 180 Ringing
200 OK (INVITE)	←			← 200 OK (INVITE)
ACK	→			→ ACK
Conference creation				
INVITE	→	INVITE		
200 OK	←	200 OK		
ACK	→	ACK		
SUBSCRIBE	→	SUBSCRIBE		
200 OK	←	200 OK		
NOTIFY	←	NOTIFY		
200 OK NOTIFY	→	200 OK NOTIFY		
Inviting SIP#2 to the conference				
REFER	→		→ REFER	
202 Accepted	←		← 202 Accepted	
		INVITE	← INVITE	
NOTIFY	←		← NOTIFY 1	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
		200 OK	→ 200 OK	
		ACK	← ACK	
NOTIFY	←		← NOTIFY 2	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	
NOTIFY	←	NOTIFY 3		
200 OK NOTIFY	→	200 OK NOTIFY		
Inviting SIP#3 to the conference				
REFER	→			→ REFER
202 Accepted	←			← 202 Accepted
		INVITE	← INVITE	
NOTIFY	←		← NOTIFY 4	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
		200 OK	→ 200 OK	
		ACK	← ACK	
NOTIFY	←		← NOTIFY 5	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	
NOTIFY	←	NOTIFY 6		
200 OK	→	200 OK		

<b>SSS_XXSSCONF_C RE_002</b>	<b>NGN reference to: [20] clause 5.3.1.3.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p>Conference creation by Three-way session creation. REFER request to the user, Conference event package not subscribed.</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 event package is not subscribed. The conference participant shall perform the following steps: 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.</p> <p>The SIP#1 releases the session 1 and 2 after the UE was informed concerned the session to the focus is established by SIP#2 and SIP#3.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p> <p><b>SIP header values:</b> 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. REFER: Refer-to header contains the conference 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. NOTIFY 3 Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 100 Trying. NOTIFY 4 Event contains conference; Subscription-State contains active message/sipfrag contains SIP/2.0 200 OK.</p>	
Continued		

Comments:		Focus	SIP#2	SIP#3
<b>SIP#1</b>				
Establishment of session #1				
INVITE	→		→ INVITE	
180 Ringing	←		← 180 Ringing	
200 OK (INVITE)	←		← 200 OK (INVITE)	
ACK	→		→ ACK	
INVITE (sendonly)	→		→ INVITE (sendonly)	
200 OK (recvonly)	←		← 200 OK (recvonly)	
ACK	→		→ ACK	
Establishment of session #2				
INVITE	→			→ INVITE
180 Ringing	←			← 180 Ringing
200 OK (INVITE)	←			← 200 OK (INVITE)
ACK	→			→ ACK
Conference creation				
INVITE	→	INVITE		
200 OK	←	200 OK		
ACK	→	ACK		
Inviting SIP#2 to the conference				
REFER	→		→ REFER	
202 Accepted	←		← 202 Accepted	
		INVITE	← INVITE	
NOTIFY	←		← NOTIFY 1	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
		200 OK	→ 200 OK	
		ACK	← ACK	
NOTIFY	←		← NOTIFY 2	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	
Inviting SIP#3 to the conference				
REFER	→			→ REFER
202 Accepted	←			← 202 Accepted
		INVITE	← INVITE	
NOTIFY	←		← NOTIFY 3	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
		200 OK	→ 200 OK	
		ACK	← ACK	
NOTIFY	←		← NOTIFY 4	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	

<b>SSS_XXSSCONF_C RE_003</b>	<b>NGN reference to: [20] clause 5.3.1.3.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p>Conference creation by Three-way session creation. REFER request to the focus, Conference event package subscribed.</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 event package is subscribed. The conference participant shall perform the following steps:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> <p>The SIP#1 releases the session 1 and 2 after the UE was informed concerned the session to the focus is established by SIP#2 and SIP#3.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header:</p> <p>Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p> <p>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>SUBSCRIBE: Request URI contained the conference URI. REFER 1: Refer-to header contains the URI of <b>user#2</b>. NOTIFY 1 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>. NOTIFY 2 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>. NOTIFY 3 Event contains <b>conference</b>; Subscription-State contains <b>active</b> application/conference-info+xml contains connected, dialled-out. REFER 2: Refer-to header contains the URI of <b>user#3</b>. NOTIFY 4 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>. NOTIFY 5 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>. NOTIFY 6 Event contains <b>conference</b>; Subscription-State contains <b>active</b> application/conference-info+xml contains connected, dialled-out.</p>	
Continued		



Comments:		Focus	SIP#2	SIP#3
SIP#1				
Establishment of session #1				
INVITE	→		→ INVITE	
180 Ringing	←		← 180 Ringing	
200 OK (INVITE)	←		← 200 OK (INVITE)	
ACK	→		→ ACK	
INVITE (sendonly)	→		→ INVITE (sendonly)	
200 OK (recvonly)	←		← 200 OK (recvonly)	
ACK	→		→ ACK	
Establishment of session #2				
INVITE	→		→ INVITE	
180 Ringing	←		← 180 Ringing	
200 OK (INVITE)	←		← 200 OK (INVITE)	
ACK	→		→ ACK	
Conference creation				
INVITE	→	INVITE		
200 OK	←	200 OK		
ACK	→	ACK		
SUBSCRIBE	→	SUBSCRIBE		
200 OK	←	200 OK		
Inviting SIP#2 to the conference				
REFER 1	→	REFER		
202 Accepted	←	202 Accepted		
		INVITE	→ INVITE	
NOTIFY	←	NOTIFY 1		
200 OK NOTIFY	→	200 OK NOTIFY		
		200 OK	← 200 OK	
		ACK	→ ACK	
NOTIFY	←	NOTIFY 2		
200 OK NOTIFY	→	200 OK NOTIFY		
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	
NOTIFY	←	NOTIFY 3		
200 OK NOTIFY	→	200 OK NOTIFY		
Inviting SIP#3 to the conference				
REFER 2	→	REFER		
202 Accepted	←	202 Accepted		
		INVITE	→	→ INVITE
NOTIFY	←	NOTIFY 4		
200 OK NOTIFY	→	200 OK NOTIFY		
		200 OK	← 200 OK	
		ACK	→ ACK	
NOTIFY	←	NOTIFY 5		
200 OK NOTIFY	→	200 OK NOTIFY		
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	
NOTIFY	←	NOTIFY 6		
200 OK	→	200 OK		

<b>SSS_XXSSCONF_C RE_004</b>	<b>NGN reference to: [20] clause 5.3.1.3.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p>Conference creation by Three-way session creation. REFER request to the focus, Conference event package not subscribed.</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 event package is not subscribed. The conference participant shall perform the following steps:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> <p>The SIP#1 releases the session 1 and 2 after the UE was informed concerned the session to the focus is established by SIP#2 and SIP#3.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header:</p> <p>Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p> <p>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>REFER 1: Refer-to header contains the URI of <b>user#2</b>. NOTIFY 1 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>.</p> <p>NOTIFY 2 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>.</p> <p>REFER 2: Refer-to header contains the URI of <b>user#3</b>. NOTIFY 3 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>.</p> <p>NOTIFY 4 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>.</p>	

Comments:	SIP#1	Focus	SIP#2	SIP#3
Establishment of session #1				
INVITE	→		→ INVITE	
180 Ringing	←		← 180 Ringing	
200 OK (INVITE)	←		← 200 OK (INVITE)	
ACK	→		→ ACK	
INVITE (sendonly)	→		→ INVITE (sendonly)	
200 OK (recvonly)	←		← 200 OK (recvonly)	
ACK	→		→ ACK	
Establishment of session #2				
INVITE	→			→ INVITE
180 Ringing	←			← 180 Ringing
200 OK (INVITE)	←			← 200 OK (INVITE)
ACK	→			→ ACK
Conference creation				
INVITE	→	INVITE		
200 OK	←	200 OK		
ACK	→	ACK		
Inviting SIP#2 to the conference				
REFER 1	→	REFER		
202 Accepted	←	202 Accepted		
		INVITE	→ INVITE	
NOTIFY	←	NOTIFY1		
200 OK NOTIFY	→	200 OK NOTIFY		
		200 OK	← 200 OK	
		ACK	→ ACK	
NOTIFY	←	NOTIFY 2		
200 OK NOTIFY	→	200 OK NOTIFY		
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	
Inviting SIP#3 to the conference				
REFER 2	→	REFER		
202 Accepted	←	202 Accepted		
		INVITE	→	→ INVITE
NOTIFY	←	NOTIFY 3		
200 OK NOTIFY	→	200 OK NOTIFY		
		200 OK	← 200 OK	
		ACK	→ ACK	
NOTIFY	←	NOTIFY 4		
200 OK NOTIFY	→	200 OK NOTIFY		
BYE	→		→ BYE	
200 OK (BYE)	←		← 200 OK (BYE)	

<b>SSS_XXSSCONF_C RE_005</b>	<b>NGN reference to: [20] clause 5.3.1.3.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p>Conference creation by Three-way session creation. REFER request to the user, Replaces method is used.</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"> <li>• 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.</li> <li>• 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.</li> <li>• The SIP#2 and SIP#3 terminates the session 1 and 2 as indicated in the Replaces header received in the INVTE from the focus.</li> </ul>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition</p> <p><b>SIP header values:</b></p> <p>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. REFER1: Refer-to header contains the conference URI and Replaces header for session 1. Refer-To: &lt;sip:conference URI?Replaces=call-id1%3Bto-tagsession1%3Bfrom-tagSession1; method=INVITE&gt;. BYE 1: Call-ID: call-id1/ To: ....; tag=session1/ From: ...;tag=Session1. REFER2: Refer-to header contains the conference URI and Replaces header for session 2. Refer-To: &lt;sip:conference URI?Replaces=call-id2%3Bto-tagsession2%3Bfrom-tagSession2; method=INVITE&gt;. BYE 2: Call-ID: call-id2/ To: ....; tag=session2/ From: ...;tag=Session2.</p>	

Comments:	SIP#1	Focus	SIP#2	SIP#3
Establishment of session #1				
INVITE	→		→ INVITE	
180 Ringing	←		← 180 Ringing	
200 OK (INVITE)	←		← 200 OK (INVITE)	
ACK	→		→ ACK	
INVITE (sendonly)	→		→ INVITE (sendonly)	
200 OK (recvonly)	←		← 200 OK (recvonly)	
ACK	→		→ ACK	
Establishment of session #2				
INVITE	→			→ INVITE
180 Ringing	←			← 180 Ringing
200 OK (INVITE)	←			← 200 OK (INVITE)
ACK	→			→ ACK
Conference creation				
INVITE	→	INVITE		
200 OK	←	200 OK		
ACK	→	ACK		
Inviting SIP#2 to the conference				
REFER 1	→		→ REFER	
202 Accepted	←		← 202 Accepted	
		INVITE	← INVITE	
NOTIFY	←		← NOTIFY	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
		200 OK	→ 200 OK	
		ACK	← ACK	
NOTIFY	←		← NOTIFY	
200 OK NOTIFY	→		→ 200 OK NOTIFY	
BYE	←		← BYE 1	
200 OK (BYE)	→		→ 200 OK (BYE)	
Inviting SIP#3 to the conference				
REFER 2	→			→ REFER
202 Accepted	←			← 202 Accepted
		INVITE	←	← INVITE
NOTIFY	←			← NOTIFY
200 OK NOTIFY	→			→ 200 OK NOTIFY
		200 OK	→	→ 200 OK
		ACK	←	← ACK
NOTIFY	←			← NOTIFY
200 OK NOTIFY	→			→ 200 OK NOTIFY
BYE	←			← BYE 2
200 OK (BYE)	→			→ 200 OK (BYE)

<b>SSS_XXSSCONF_C RE_06</b>	<b>NGN reference to: [20] clause 4.5.2.1.2</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p><i>Conference creation by Three-way session creation. REFER request to the focus, 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 <b>replaces method is used</b> to terminate previous individual sessions. The conference participants shall perform the following steps:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• The SIP#2 and SIP#3 terminates the session 1 and 2 as indicated in the Replaces header received in the INVITE from the focus</li> </ul>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) upported: 100 rel and precondition.</p> <p><b>SIP header values:</b></p> <p>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>REFER 1: Refer-to header contains the URI of user#2 and Replaces header for session 1. Refer-To: &lt;sip:User#2?Replaces=Call-ID1%3Bto-tagSession1%3Bfrom-tagSession1; method=INVITE&gt;.</p> <p>REFER 2: Refer-to header contains the URI of user#3 and Replaces header for session 2. Refer-To: &lt;sip:User#3?Replaces=Call-ID2%3Bto-tag session2%3Bfrom-tag Session2; method=INVITE&gt;.</p> <p>INVITE 4: Replaces=Call-ID1;to-tagSession1:from-tagSession1. BYE 1: Call-ID: call-id1/ To: ....; tag=session1/ From: ...;tag=Session1. INVITE 5: Replaces=Call-ID2;to-tag Session2;from-tag Session2. BYE 2: Call-ID: call-id2/ To: ....; tag=session2/ From: ...;tag=Session2.</p>	

Comments:					
SIP#1		Focus		SIP#2	SIP#3
Establishment of session #1					
INVITE	→			→ INVITE	
180 Ringing	←			← 180 Ringing	
200 OK (INVITE)	←			← 200 OK (INVITE)	
ACK	→			→ ACK	
INVITE (sendonly)	→			→ INVITE (sendonly)	
200 OK (recvonly)	←			← 200 OK (recvonly)	
ACK	→			→ ACK	
Establishment of session #2					
INVITE	→				→ INVITE
180 Ringing	←				← 180 Ringing
200 OK (INVITE)	←				← 200 OK (INVITE)
ACK	→				→ ACK
Conference creation					
INVITE	→	INVITE			
200 OK	←	200 OK			
ACK	→	ACK			
Inviting SIP#2 to the conference					
REFER 1	→	REFER			
202 Accepted	←	202 Accepted			
		INVITE 4	→	INVITE	
		200 OK	←	200 OK	
		ACK	→	ACK	
NOTIFY	←	NOTIFY			
200 OK NOTIFY	→	200 OK NOTIFY			
BYE	←			← BYE 1	
200 OK (BYE)	→			→ 200 OK (BYE)	
Inviting SIP#3 to the conference					
REFER 2	→	REFER			
202 Accepted	←	202 Accepted			
		INVITE 5	→		→ INVITE
		200 OK	←		← 200 OK
		ACK	→		→ ACK
NOTIFY	←	NOTIFY			
200 OK NOTIFY	→	200 OK NOTIFY			
BYE	←			← BYE 2	
200 OK (BYE)	→			→ 200 OK (BYE)	

<b>SSS__XXSSCONF_C RE_07</b>	<b>NGN reference to: [20] clause 5.3.1.3.2</b>																												
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.																												
Configuration	CONF																												
Selection criteria:	Is not a temporary conference URI sent in the first provisional response when preconditions are indicated. Is the use of preconditions supported.																												
Test purpose:	<p><i>Conference creation with a conference factory URI. Preconditions indicated a conference URI is sent in the first provisional response.</i></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 <b>conference URI</b>.</p>																												
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition <b>SIP header values:</b> INVITE: Request URI contained the conference factory URI. 183 conference URI contained in the Contact header field. 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.																												
Comments:	<table border="0"> <thead> <tr> <th style="text-align: left;">SIP#1</th> <th style="text-align: center;">→</th> <th style="text-align: left;">Focus</th> </tr> </thead> <tbody> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td></td> </tr> <tr> <td>183 Session Progress</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>PRACK</td> <td style="text-align: center;">→</td> <td></td> </tr> <tr> <td>200 OK PRACK</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>UPDATE</td> <td style="text-align: center;">→</td> <td></td> </tr> <tr> <td>200 OK UPDATE</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">←</td> <td></td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td></td> </tr> </tbody> </table>		SIP#1	→	Focus	INVITE	→		183 Session Progress	←		PRACK	→		200 OK PRACK	←		UPDATE	→		200 OK UPDATE	←		200 OK (INVITE)	←		ACK	→	
SIP#1	→	Focus																											
INVITE	→																												
183 Session Progress	←																												
PRACK	→																												
200 OK PRACK	←																												
UPDATE	→																												
200 OK UPDATE	←																												
200 OK (INVITE)	←																												
ACK	→																												



<b>SSS_XXSSCONF_CRE_08</b>	<b>NGN reference to: [20] clause 5.3.1.3.3</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	Is a temporary conference URI sent in the first provisional response when preconditions are indicated.  Is the use of preconditions supported.	
Test purpose:	<i>Conference creation with a conference factory URI. Preconditions indicated a temporary conference URI is sent in the first provisional response.</i>  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 <b>conference URI</b> .	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.  <b>SIP header values:</b> INVITE: Request URI contained the conference factory URI. 183 Temporary conference URI contained in the Contact header field. 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.	
Comments:	<b>SIP#1</b>	<b>Focus</b>
INVITE	→	
183 Session Progress	←	
PRACK	→	
200 OK PRACK	←	
UPDATE	→	
200 OK UPDATE	←	
200 OK (INVITE)	←	
ACK	→	

<b>SSS_XXSSCONF_CRE_09</b>	<b>NGN reference to: [20] clause 5.3.2.3.1</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<i>Conference creation with a conference factory URI not allocated in the focus unsuccessful.</i>  Ensure that a conference can not be created by a UE using the conference factory URI not allocated in the focus. The request is rejected by the focus with a <b>488 Not Acceptable Here</b> final response.	
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.  <b>SIP header values:</b> INVITE: Request URI contained the conference factory URI not allocated in the focus	
Comments:	<b>SIP#1</b>	<b>Focus</b>
INVITE	→	
488 Not Acceptable Here	←	
ACK	→	

<b>SSS__XXSSCONF_C RE_10</b>	<b>NGN reference to: [20] clause 5.3.2.3.2</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p><i>Conference creation with a conference URI is allocated in the focus unsuccessful.</i></p> <p>Ensure that a conference can not be created by a UE using the conference URI allocated in the focus. The request is rejected by the focus with a <b>488 Not Acceptable</b> Here final response.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition</p> <p><b>SIP header values:</b> INVITE: Request URI contained the conference factory URI not allocated in the focus</p>	
Comments:	<b>SIP#1</b>	<b>Focus</b>
INVITE	→	
488 Not Acceptable Here	←	
ACK	→	

## 6.5.2.11.2

## Joining a conference

<b>SSS_XXSSCONF_</b> <b>Join_01</b>	<b>NGN reference to:</b> <b>[20] clause 5.3.2.4</b>																																																	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.																																																	
Configuration	CONF																																																	
Selection criteria:	CONF																																																	
Test purpose:	<p><i>Participant dial-in the conference, the conference URI is used. The Participant subscribes the conference event package.</i></p> <p>SIP#1 established a conference. SIP#2 joins in that conference. An INVITE request is received at the conferencing AS the conference URI is known at the SIP#2. SIP#2 subscribes the conference event package. The request is successful.</p>																																																	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p> <p>INVITE 2: 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 contains "conference". Event header contains "conference". NOTIFY: Event contains conference; Subscription-State contains active; expires=XXXX. application/conference-info+xml contains connected, dialled-in.</p>																																																	
Comments:	<table border="0"> <thead> <tr> <th style="text-align: left;"><b>SIP#1</b></th> <th style="text-align: center;"><b>Focus</b></th> <th style="text-align: right;"><b>SIP#2</b></th> </tr> </thead> <tbody> <tr> <td colspan="3">Conference creation</td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">←</td> <td>200 OK (INVITE)</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> <tr> <td colspan="3">SIP#2 joining in the conference</td> </tr> <tr> <td></td> <td style="text-align: center;">INVITE</td> <td style="text-align: center;">← INVITE 2</td> </tr> <tr> <td></td> <td style="text-align: center;">18x</td> <td style="text-align: center;">→ 18x</td> </tr> <tr> <td></td> <td style="text-align: center;">200 OK INVITE</td> <td style="text-align: center;">→ 200 OK INVITE</td> </tr> <tr> <td></td> <td style="text-align: center;">ACK</td> <td style="text-align: center;">← ACK</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">← SUBSCRIBE</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">→ 200 OK (SUBSCRIBE)</td> </tr> <tr> <td></td> <td style="text-align: center;">NOTIFY 1</td> <td style="text-align: center;">→ NOTIFY</td> </tr> <tr> <td></td> <td style="text-align: center;">200 OK NOTIFY</td> <td style="text-align: center;">← 200 OK NOTIFY</td> </tr> <tr> <td>NOTIFY</td> <td style="text-align: center;">←</td> <td>NOTIFY 2</td> </tr> <tr> <td>200 OK NOTIFY</td> <td style="text-align: center;">→</td> <td>200 OK NOTIFY</td> </tr> </tbody> </table>		<b>SIP#1</b>	<b>Focus</b>	<b>SIP#2</b>	Conference creation			INVITE	→	INVITE	200 OK (INVITE)	←	200 OK (INVITE)	ACK	→	ACK	SIP#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	NOTIFY	←	NOTIFY 2	200 OK NOTIFY	→	200 OK NOTIFY
<b>SIP#1</b>	<b>Focus</b>	<b>SIP#2</b>																																																
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	ACK	← ACK																																																
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	NOTIFY 1	→ NOTIFY																																																
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NOTIFY	←	NOTIFY 2																																																
200 OK NOTIFY	→	200 OK NOTIFY																																																

<b>SSS_XXSSCONF_</b> <b>Joint_02</b>	<b>NGN reference to:</b> <b>[20] clause 5.3.2.4</b>																															
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF																															
Configuration	CONF																															
Selection criteria:	<b>It is not possible to invite a participant using a REFER request</b>																															
Test purpose:	<p><i>Participant dial-in the conference, the conference URI is used. The Participant does not subscribe the conference event package.</i></p> <p>SIP#1 established a conference. SIP#2 joins in that conference. The UE sends an INVITE request to the conferencing AS the conference URI is known at the SIP#2. SIP#2 does not subscribe the conference event package. The request is successful.</p>																															
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition <b>SIP header values:</b> INVITE 2: Request URI contained the conference URI. 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:	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><b>SIP#1</b></th> <th style="text-align: center; width: 40%;"><b>Focus</b></th> <th style="text-align: right; width: 30%;"><b>SIP#2</b></th> </tr> </thead> <tbody> <tr> <td colspan="3">Conference creation</td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">←</td> <td>200 OK (INVITE)</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> <tr> <td colspan="3">SIP#2 joining in the conference</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">INVITE ← INVITE 2</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">18x → 18x</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">200 OK INVITE → 200 OK INVITE</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">ACK ← ACK</td> </tr> </tbody> </table>		<b>SIP#1</b>	<b>Focus</b>	<b>SIP#2</b>	Conference creation			INVITE	→	INVITE	200 OK (INVITE)	←	200 OK (INVITE)	ACK	→	ACK	SIP#2 joining in the conference					INVITE ← INVITE 2			18x → 18x			200 OK INVITE → 200 OK INVITE			ACK ← ACK
<b>SIP#1</b>	<b>Focus</b>	<b>SIP#2</b>																														
Conference creation																																
INVITE	→	INVITE																														
200 OK (INVITE)	←	200 OK (INVITE)																														
ACK	→	ACK																														
SIP#2 joining in the conference																																
		INVITE ← INVITE 2																														
		18x → 18x																														
		200 OK INVITE → 200 OK INVITE																														
		ACK ← ACK																														

<b>SSS_XXSSCONF_</b> <b>Join_003</b>	<b>NGN reference to:</b> <b>[20] clause 5.3.2.4</b>																												
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF																												
Configuration	CONF																												
Selection criteria:	CONF																												
Test purpose:	<p><i>Participant dial-in the conference, the conference URI is not allocated, the request is rejected.</i></p> <p>SIP#1 established a conference. SIP#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 488 Not Acceptable Here.</p>																												
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition <b>SIP header values:</b> INVITE 2: Request URI contained the conference URI not allocated in the focus																												
Comments:	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><b>SIP#1</b></th> <th style="text-align: center; width: 40%;"><b>Focus</b></th> <th style="text-align: right; width: 30%;"><b>SIP#2</b></th> </tr> </thead> <tbody> <tr> <td colspan="3">Conference creation</td> </tr> <tr> <td>INVITE</td> <td style="text-align: center;">→</td> <td>INVITE</td> </tr> <tr> <td>200 OK (INVITE)</td> <td style="text-align: center;">←</td> <td>200 OK (INVITE)</td> </tr> <tr> <td>ACK</td> <td style="text-align: center;">→</td> <td>ACK</td> </tr> <tr> <td colspan="3">SIP#2 joining in the conference</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">INVITE ← INVITE 2</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">488 Not Acceptable Here → 488 Not Acceptable Here</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">ACK ← ACK</td> </tr> </tbody> </table>		<b>SIP#1</b>	<b>Focus</b>	<b>SIP#2</b>	Conference creation			INVITE	→	INVITE	200 OK (INVITE)	←	200 OK (INVITE)	ACK	→	ACK	SIP#2 joining in the conference					INVITE ← INVITE 2			488 Not Acceptable Here → 488 Not Acceptable Here			ACK ← ACK
<b>SIP#1</b>	<b>Focus</b>	<b>SIP#2</b>																											
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200 OK (INVITE)	←	200 OK (INVITE)																											
ACK	→	ACK																											
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		INVITE ← INVITE 2																											
		488 Not Acceptable Here → 488 Not Acceptable Here																											
		ACK ← ACK																											

## 6.5.2.11.3

## Inviting other users to a conference

<b>SSS__XXSSCONF_I NV_001</b>	<b>NGN reference to: [20] clause 5.3.2.5</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p><i>Inviting participant by sending REFER to the focus. The conference event package is subscribed.</i></p> <p>SIP#1 established a conference. SIP#1 invites SIP#2 to join into the conference. The SIP#1 sends a REFER to the focus; the focus sends an INVITE request to SIP#2 to invite the SIP#2 to the conference. The conference event package is subscribed.</p>	
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition</p> <p><b>SIP header values:</b></p> <p>REFER: Request URI contained the <b>conference URI</b>. Refer-To contains the URI of <b>SIP#2</b>, method=invite. Referred-By contains SIP or tel URI of <b>SIP#1</b>.</p> <p>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 <b>SIP#1</b>.</p> <p>NOTIFY 1 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 100 Trying</b>.</p> <p>NOTIFY 2 Event contains <b>conference</b>; Subscription-State contains <b>active</b> message/sipfrag contains <b>SIP/2.0 200 OK</b>.</p> <p>SUBSCRIBE: Request URI contained the conference URI, Event contains "conference". NOTIFY 3 Event contains <b>conference</b>; Subscription-State contains <b>active</b>; <b>expires=XXXX</b> application/conference-info+xml contains connected, dialled-out.</p> <p>NOTIFY 4 Event contains <b>conference</b>; Subscription-State contains <b>active</b> application/conference-info+xml contains connected, dialled-out.</p>	
Continued		

Comments:	SIP#1	Focus	SIP#2
Conference creation			
	INVITE	→ INVITE	
	200 OK (INVITE)	← 200 OK (INVITE)	
	ACK	→ ACK	
	SUBSCRIBE	→	
	200 OK (SUBSCRIBE)	←	
SIP#1 invites SIP#2 to the conference			
	REFER	→ REFER	
	202 Accepted	← 202 Accepted	
			Focus dials out to invite SIP#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		
			← SUBSCRIBE
			→ 200 OK (SUBSCRIBE)
			→ NOTIFY 3
		200 OK NOTIFY ← 200 OK NOTIFY	
NOTIFY	← NOTIFY 4		
200 OK NOTIFY	→ 200 OK NOTIFY		

<b>SSS__XXSSCONF_I NV_002</b>	<b>NGN reference to: [20] clause 5.3.2.5</b>																																																				
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.																																																				
Configuration	CONF																																																				
Selection criteria:	CONF																																																				
Test purpose:	<p><i>Inviting participant by sending REFER to the focus. The conference event package is not subscribed.</i></p> <p>SIP#1 established a conference. SIP#1 invites SIP#2 to join into the conference. The SIP#1 sends a REFER to the focus; the focus sends an INVITE request to SIP#2 to invite the SIP#2 to the conference. The conference event package is not subscribed.</p>																																																				
SIP Parameter values:	<p>Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) No 100 rel; Case b) Supported: 100 rel; Case c) Supported: 100 rel and precondition.</p> <p><b>SIP header values:</b> REFER: Request URI contained the conference URI. Refer-To contains the URI of SIP#2, method=invite. Referred-By contains SIP URI of SIP#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 SIP#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>																																																				
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200 OK NOTIFY	→	200 OK NOTIFY																																																			

<b>SSS__XXSSCONF_ INV_003</b>	<b>NGN reference to: [20] clause 5.3.2.5</b>	
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.	
Configuration	CONF	
Selection criteria:	CONF	
Test purpose:	<p><i>Inviting participant by sending REFER to the participant. The conference event package is subscribed.</i></p> <p>SIP#1 established a conference. SIP#1 invites SIP#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 subscribed.</p>	
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Continued		



Comments:	SIP#1	Focus	SIP#2
Conference creation			
	INVITE	→ INVITE	
	200 OK (INVITE)	← 200 OK (INVITE)	
	ACK	→ ACK	
	SUBSCRIBE	→	
	200 OK (SUBSCRIBE)	←	
SIP#1 invites SIP#2 to the conference			
	REFER	→	→ REFER
	202 Accepted	←	← 202 Accepted
	NOTIFY	←	← NOTIFY 1
	200 OK NOTIFY	→	→ 200 OK NOTIFY
			SIP#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
			← SUBSCRIBE
			→ 200 OK (SUBSCRIBE)
		NOTIFY 3	→ NOTIFY
		200 OK NOTIFY	← 200 OK NOTIFY
	NOTIFY	← NOTIFY 4	
	200 OK NOTIFY	→ 200 OK NOTIFY	

<b>SSS_XSSCONF_I NV_004</b>	<b>NGN reference to: [20] clause 5.3.2.5</b>																																																				
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF.																																																				
Configuration	CONF																																																				
Selection criteria:	CONF																																																				
Test purpose:	<p><i>Inviting participant by sending REFER to the participant. The conference event package is not subscribed.</i></p> <p>SIP#1 established a conference. SIP#1 invites SIP#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.</p>																																																				
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<b>SSS_XXSSCONF_I NV_005</b>	<b>NGN reference to: [20] clause 5.3.2.5</b>																																																																												
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## 6.5.2.11.4 Leaving a conference

<b>SSS_XXSSCONF _LEAV_001</b>	<b>NGN reference to: [20] clause 5.3.2.6</b>																																																													
TSS reference:	SIP-SIP-SIP/Supplementary_services/ CONF																																																													
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## 6.5.2.11.5 Removing a conference participant from a conference

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## Annex A (informative): Bibliography

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- draft-ietf-sipping-basic-call-flows-02.txt: "Session Initiation Protocol Basic Call Flow Examples".

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## History

<b>Document history</b>		
V1.0.0	April 2008	Publication