

sip-register-and-call.pcap

SIP REGISTER

From	sip:4182618006@virtsanity.mtl.broadsoft.com
To	sip:4182618006@virtsanity.mtl.broadsoft.com
Call-ID	ef1b738a-6e84666@192.168.9.205
CSeq	12607 REGISTER
Contact	"qq8006" <sip:4182618006@192.168.9.205:5060>;expires=3600
User-Agent	Linksys/SPA941-5.1.5

[Frame 1] SIP REGISTER binds a user's SIP URI (AOR) to the contact address where they can be reached; typically uses HTTP Digest authentication (401/407 challenge-response) and refreshes via Expires interval

SIP 200 OK

From	sip:4182618006@virtsanity.mtl.broadsoft.com
To	sip:4182618006@virtsanity.mtl.broadsoft.com
Call-ID	ef1b738a-6e84666@192.168.9.205
CSeq	12607 REGISTER
Contact	<sip:4182618006@192.168.9.205:5060>;q=0.5;expires=3599

[Frame 2] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

SIP REGISTER

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
CSeq	1 REGISTER
Call-ID	86a1892a-addef550-61641e4b@192.168.9.121
Contact	<sip:6010_SCA1@192.168.9.121>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, ..."
User-Agent	PolycomSoundPointIP-SPIP_600-UA/2.0.3.0127
Expires	3600

[Frame 3] SIP REGISTER binds a user's SIP URI (AOR) to the contact address where they can be reached; typically uses HTTP Digest authentication (401/407 challenge-response) and refreshes via Expires interval

SIP 200 OK

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
Call-ID	86a1892a-addef550-61641e4b@192.168.9.121
CSeq	1 REGISTER
Contact	<sip:6010_SCA1@192.168.9.121>;q=0.5;expires=3599

[Frame 4] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

SIP SUBSCRIBE

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
CSeq	1 SUBSCRIBE
Call-ID	37ac204-dff2e01a-8cb7264d@192.168.9.121
Event	call-info
Expires	3600

Frame 5 | 2010-06-17T12:59:49.443688Z

SIP 200 OK

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
Call-ID	37ac204-dff2e01a-8cb7264d@192.168.9.121
CSeq	1 SUBSCRIBE
Expires	3598
Contact	<sip:virtsanity.mtl.broadsoft.com:5060>

[Frame 6] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

SIP NOTIFY

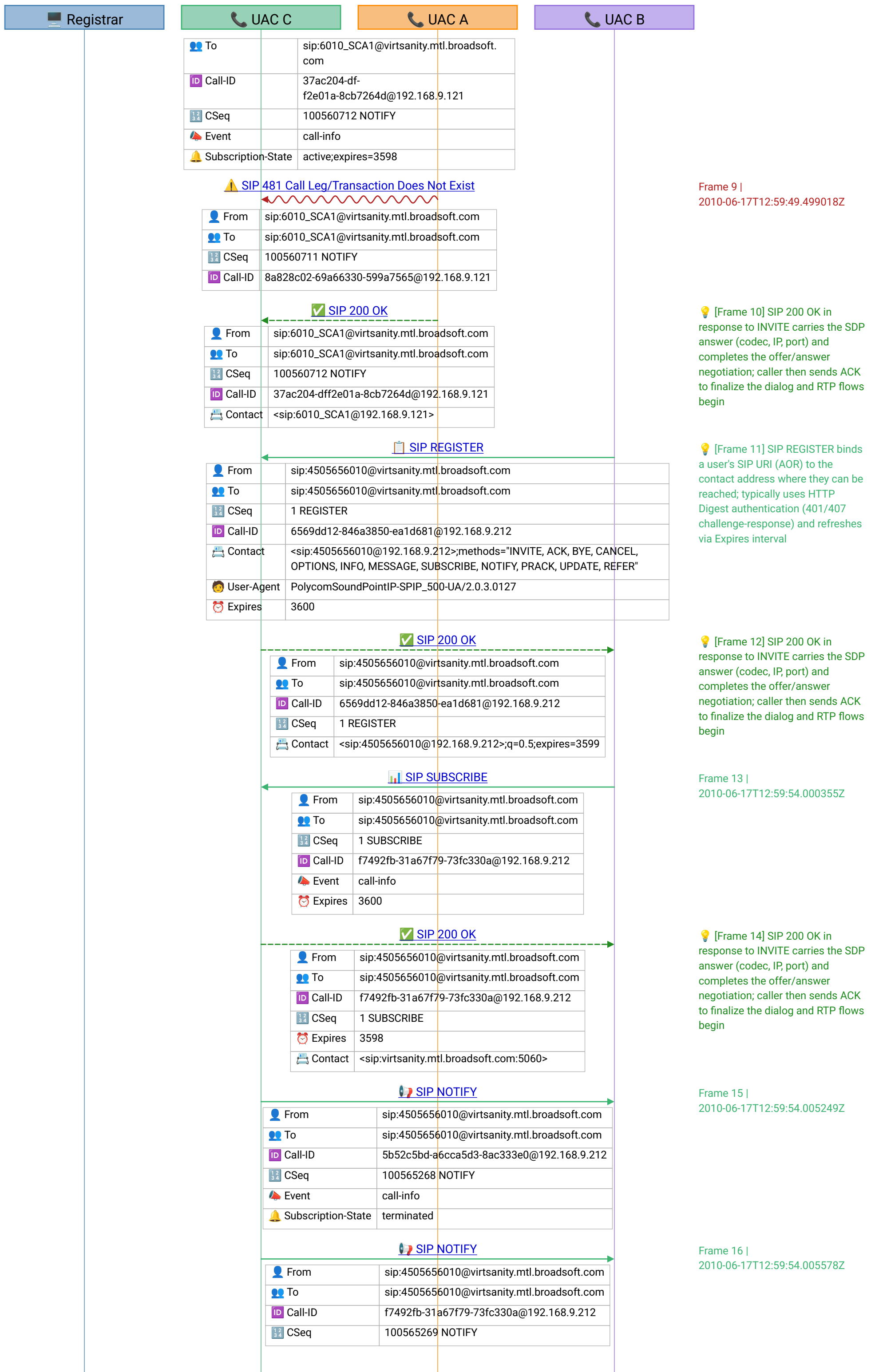
From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
Call-ID	8a828c02-69a66330-599a7565@192.168.9.121
CSeq	100560711 NOTIFY
Event	call-info
Subscription-State	terminated

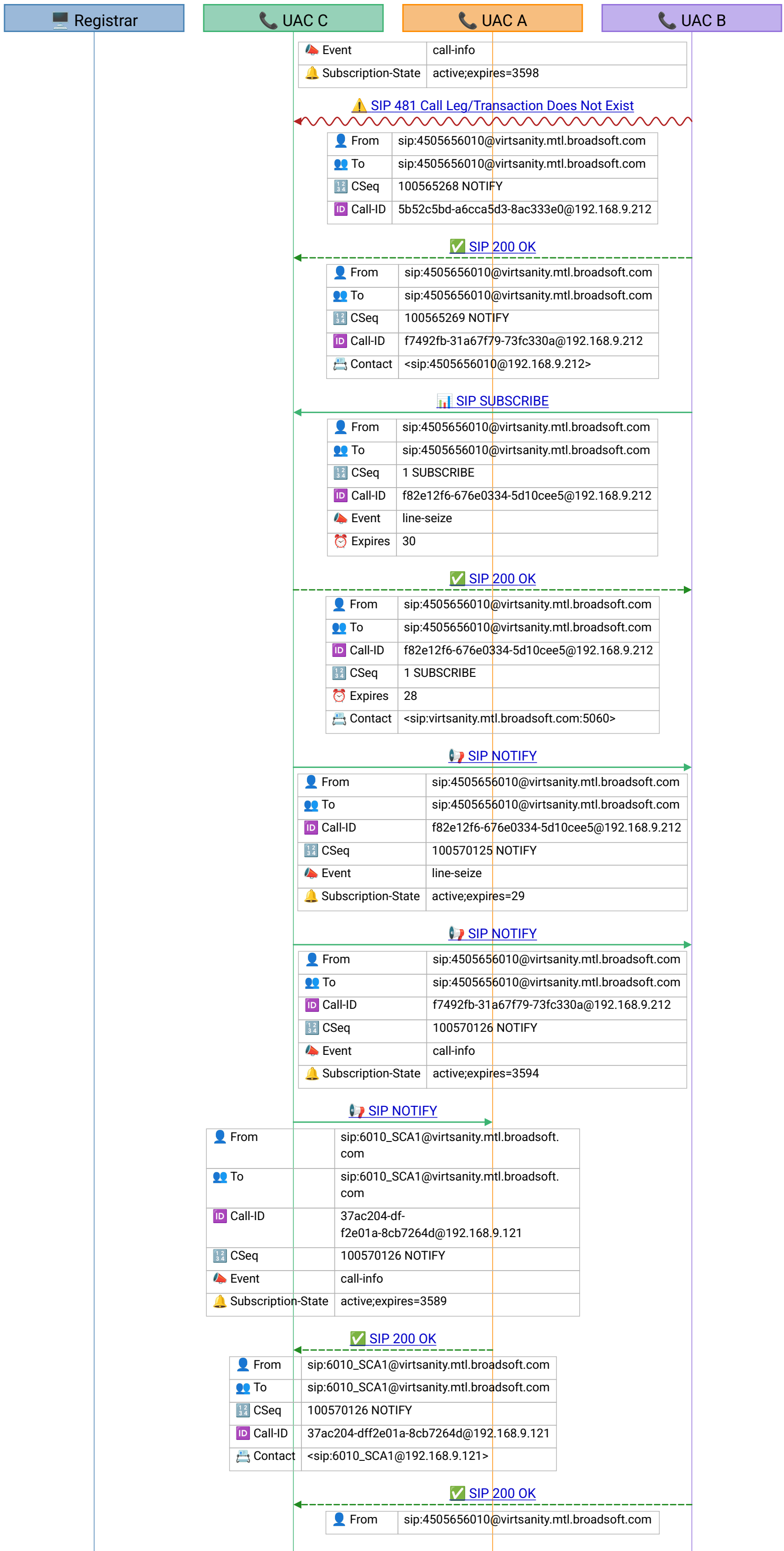
Frame 7 | 2010-06-17T12:59:49.448129Z

SIP NOTIFY

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
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Frame 8 | 2010-06-17T12:59:49.448537Z





Frame 17 | 2010-06-17T12:59:54.062749Z

[Frame 18] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

Frame 19 | 2010-06-17T12:59:58.858566Z

[Frame 20] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

Frame 21 | 2010-06-17T12:59:58.861725Z

Frame 22 | 2010-06-17T12:59:58.862775Z

Frame 23 | 2010-06-17T12:59:58.863116Z

[Frame 24] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

[Frame 25] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and



To	sip:4505656010@virtsanity.mtl.broadsoft.com
CSeq	100570125 NOTIFY
Call-ID	f82e12f6-676e0334-5d10cee5@192.168.9.212
Contact	<sip:4505656010@192.168.9.212>

completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

SIP 200 OK

From	sip:4505656010@virtsanity.mtl.broadsoft.com
To	sip:4505656010@virtsanity.mtl.broadsoft.com
CSeq	100570126 NOTIFY
Call-ID	f7492fb-31a67f79-73fc330a@192.168.9.212
Contact	<sip:4505656010@192.168.9.212>

[Frame 26] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

SIP INVITE

Via	SIP/2.0/UDP 192.168.9.212;branch=z9hG4bK38d10a61C7B83830
From	sip:4505656010@virtsanity.mtl.broadsoft.com
To	sip:4182618006@virtsanity.mtl.broadsoft.com;user=phone
CSeq	1 INVITE
Call-ID	6e656a5f-be5dcbdd-8e03cee@192.168.9.212
Contact	<sip:4505656010@192.168.9.212>
User-Agent	PolycomSoundPointIP-SPIP_500-UA/2.0.3.0127
Max-Forwards	70
SDP-Owner	- 1276777554 1276777554 IN IP4 192.168.9.212
SDP-Session	Polycom IP Phone
SDP-Conn	IN IP4 192.168.9.212
Media	audio 2222 RTP/AVP 8 0 18 101
Media-Attr	sendrecv
Media-Attr	rtpmap:8 PCMA/8000
Media-Attr	rtpmap:0 PCMU/8000...
	2 more

[Frame 27] SIP INVITE carries an SDP offer describing media capabilities; the callee's 200 OK contains the SDP answer, completing the offer/answer negotiation for RTP media streams

SIP 100 Trying

From	sip:4505656010@virtsanity.mtl.broadsoft.com
To	sip:4182618006@virtsanity.mtl.broadsoft.com;user=phone
Call-ID	6e656a5f-be5dcbdd-8e03cee@192.168.9.212
CSeq	1 INVITE

Frame 28 | 2010-06-17T13:00:03.226903Z

SIP NOTIFY

From	sip:4505656010@virtsanity.mtl.broadsoft.com
To	sip:4505656010@virtsanity.mtl.broadsoft.com
Call-ID	f82e12f6-676e0334-5d10cee5@192.168.9.212
CSeq	100574493 NOTIFY
Event	line-seize
Subscription-State	terminated

Frame 29 | 2010-06-17T13:00:03.233736Z

SIP INVITE

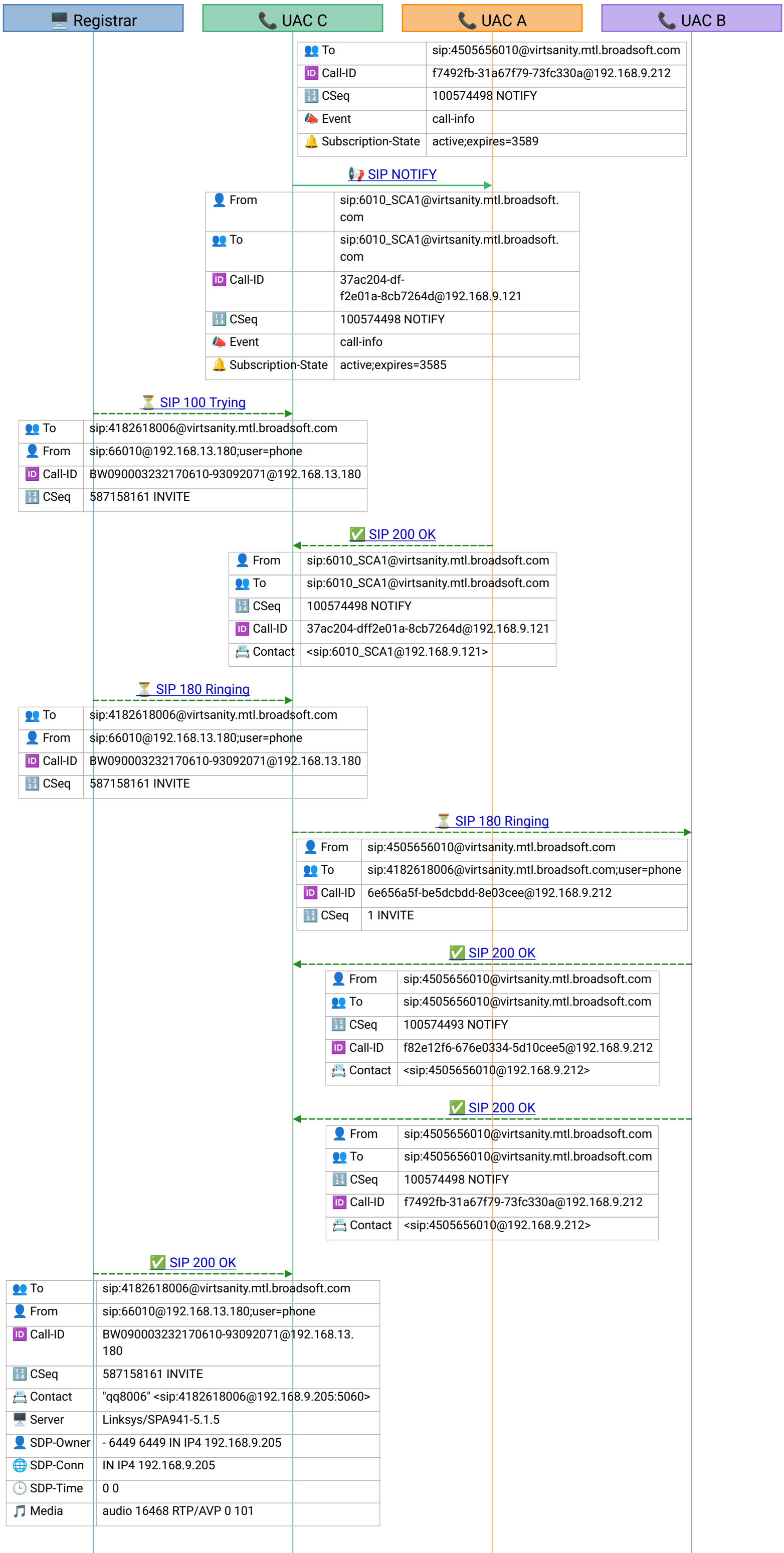
Via	SIP/2.0/UDP 192.168.13.180;branch=z9hG4bKBroadWorks.qe24oq-192.168.9.205V5060-0-587158161-...
From	sip:66010@192.168.13.180;user=phone
To	sip:4182618006@virtsanity.mtl.broadsoft.com
Call-ID	BW090003232170610-93092071@192.168.13.180
CSeq	587158161 INVITE
Contact	<sip:virtsanity.mtl.broadsoft.com:5060>
Max-Forwards	5
SDP-Owner	BroadWorks 10478 1 IN IP4 192.168.9.212
SDP-Session	-
SDP-Conn	IN IP4 192.168.9.212
Media	audio 2222 RTP/AVP 8 0 18 101
Media-Attr	sendrecv
Media-Attr	rtpmap:8 PCMA/8000
Media-Attr	rtpmap:0 PCMU/8000
Media-Attr	rtpmap:18 G729/8000...
	1 more

[Frame 30] SIP INVITE carries an SDP offer describing media capabilities; the callee's 200 OK contains the SDP answer, completing the offer/answer negotiation for RTP media streams

SIP NOTIFY

From	sip:4505656010@virtsanity.mtl.broadsoft.com
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Frame 31 | 2010-06-17T13:00:03.234874Z



Frame 32 | 2010-06-17T13:00:03.235005Z

Frame 33 | 2010-06-17T13:00:03.260969Z

💡 [Frame 34] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

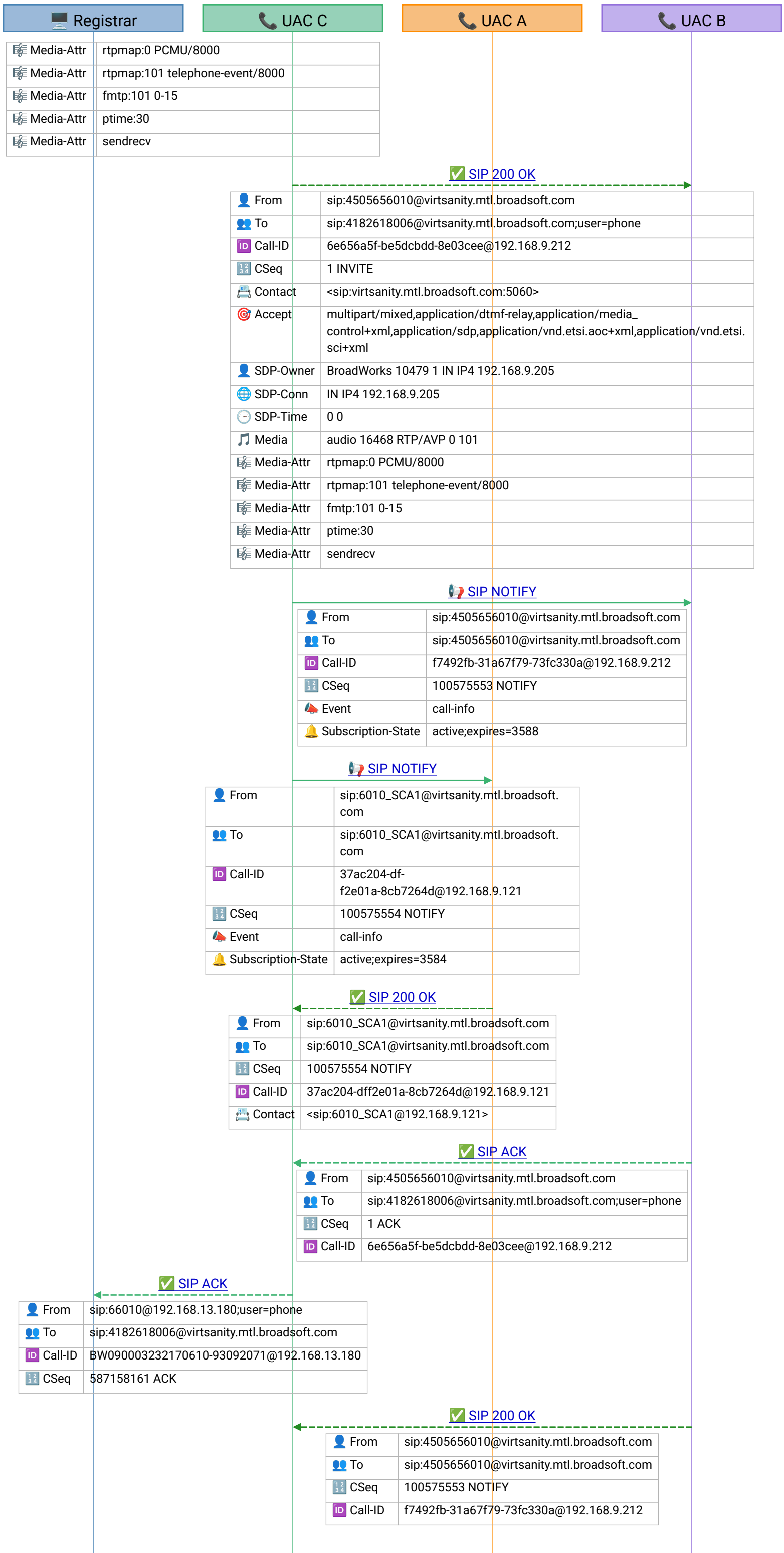
Frame 35 | 2010-06-17T13:00:03.284849Z

Frame 36 | 2010-06-17T13:00:03.286454Z

💡 [Frame 37] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

💡 [Frame 38] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

💡 [Frame 39] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin



💡 [Frame 40] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

Frame 41 | 2010-06-17T13:00:04.290179Z

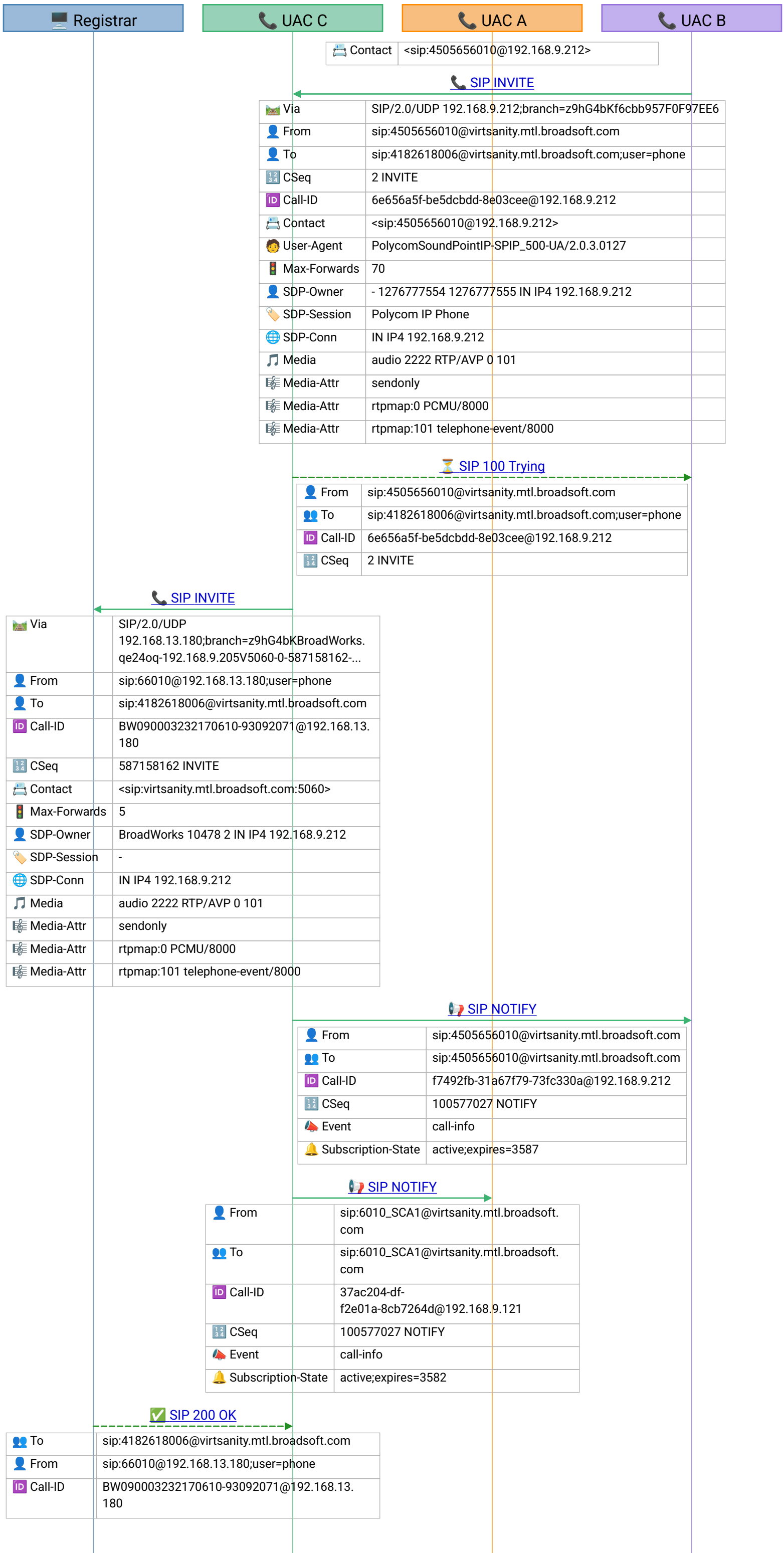
Frame 42 | 2010-06-17T13:00:04.290463Z

💡 [Frame 43] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

Frame 44 | 2010-06-17T13:00:04.346156Z

Frame 45 | 2010-06-17T13:00:04.348473Z

💡 [Frame 46] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin



💡 [Frame 47] SIP INVITE carries an SDP offer describing media capabilities; the callee's 200 OK contains the SDP answer, completing the offer/answer negotiation for RTP media streams

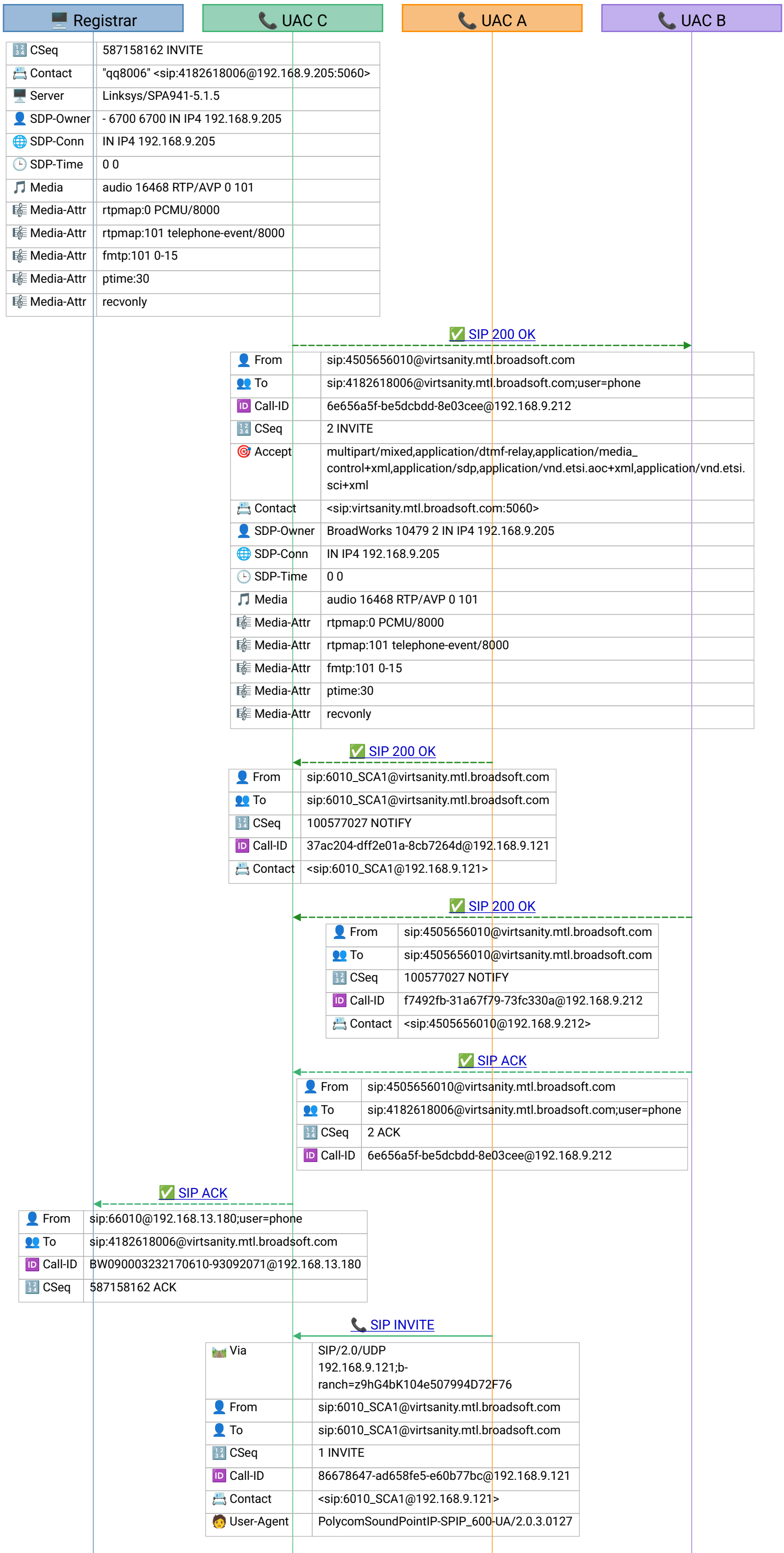
Frame 48 | 2010-06-17T13:00:05.761219Z

💡 [Frame 49] SIP INVITE carries an SDP offer describing media capabilities; the callee's 200 OK contains the SDP answer, completing the offer/answer negotiation for RTP media streams

Frame 50 | 2010-06-17T13:00:05.764048Z

Frame 51 | 2010-06-17T13:00:05.764504Z

💡 [Frame 52] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin



💡 [Frame 53] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

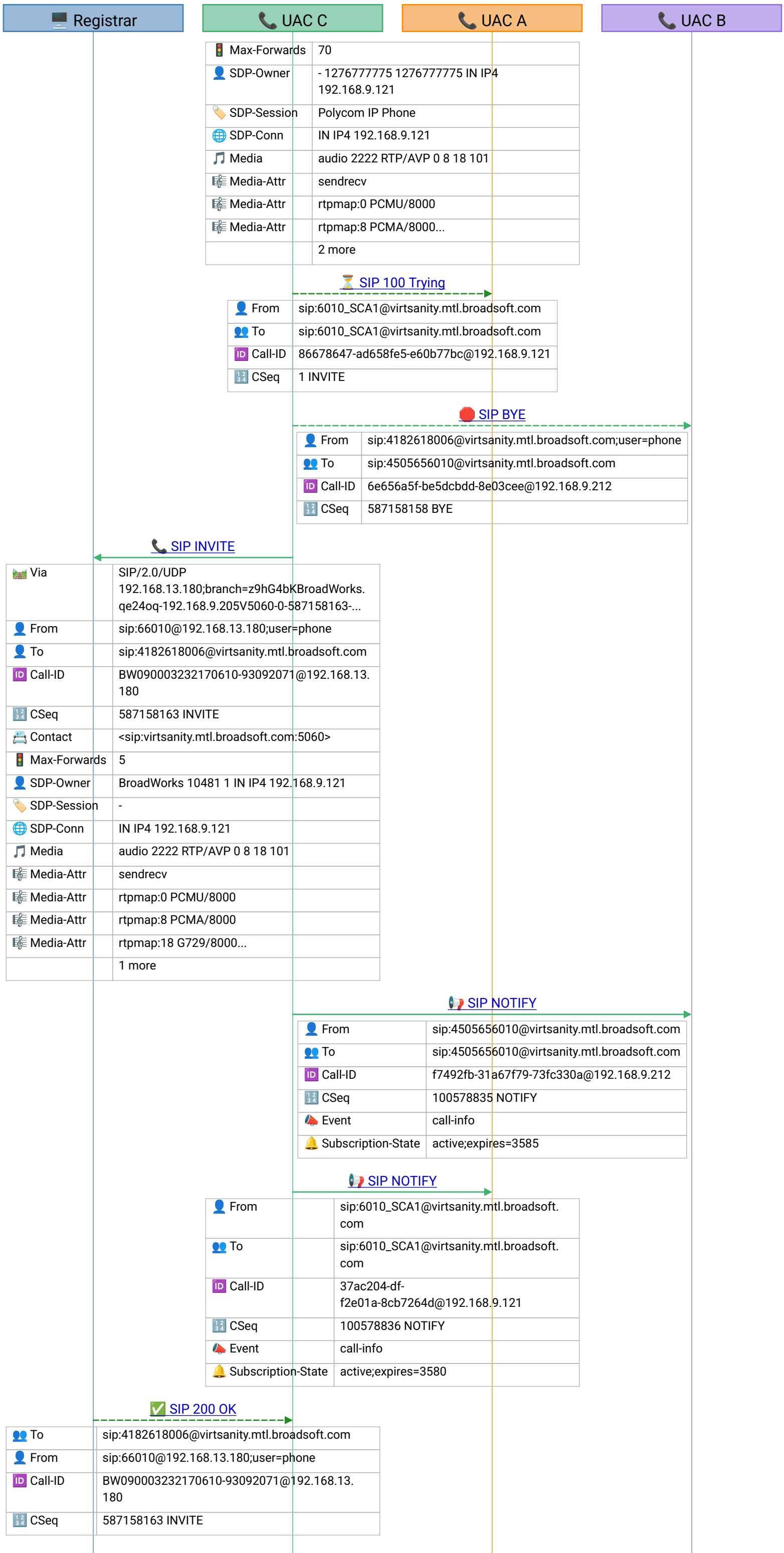
💡 [Frame 54] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

💡 [Frame 55] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

Frame 56 | 2010-06-17T13:00:05.93426Z

Frame 57 | 2010-06-17T13:00:05.936907Z

💡 [Frame 58] SIP INVITE carries an SDP offer describing media capabilities; the callee's 200 OK contains the SDP answer, completing the offer/answer negotiation for RTP media streams



Frame 59 |
2010-06-17T13:00:07.569148Z

💡 [Frame 60] SIP BYE terminates an established dialog; either party can send it, and the receiving side responds with 200 OK to confirm teardown of the RTP media streams and release resources

💡 [Frame 61] SIP INVITE carries an SDP offer describing media capabilities; the callee's 200 OK contains the SDP answer, completing the offer/answer negotiation for RTP media streams

Frame 62 |
2010-06-17T13:00:07.572069Z

Frame 63 |
2010-06-17T13:00:07.572413Z

💡 [Frame 64] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin



Contact	"qq8006" <sip:4182618006@192.168.9.205:5060>
Server	Linksys/SPA941-5.1.5
SDP-Owner	- 6881 6881 IN IP4 192.168.9.205
SDP-Conn	IN IP4 192.168.9.205
SDP-Time	0 0
Media	audio 16468 RTP/AVP 0 101
Media-Attr	rtpmap:0 PCMU/8000
Media-Attr	rtpmap:101 telephone-event/8000
Media-Attr	fmp:101 0-15
Media-Attr	ptime:30
Media-Attr	sendrecv

✓ SIP 200 OK

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
Call-ID	86678647-ad658fe5-e60b77bc@192.168.9.121
CSeq	1 INVITE
Accept	multipart/mixed,application/dtmf-relay,application/media_control+xml,application/sdp,application/vnd.etsi.aoc+xml,application/vn...
Contact	<sip:virtsanity.mtl.broadsoft.com:5060>
SDP-Owner	BroadWorks 10479 3 IN IP4 192.168.9.205
SDP-Conn	IN IP4 192.168.9.205
SDP-Time	0 0
Media	audio 16468 RTP/AVP 0 101
Media-Attr	rtpmap:0 PCMU/8000
Media-Attr	rtpmap:101 telephone-event/8000
Media-Attr	fmp:101 0-15
Media-Attr	ptime:30
Media-Attr	sendrecv

💡 [Frame 65] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

✓ SIP 200 OK

From	sip:4182618006@virtsanity.mtl.broadsoft.com;user=phone
To	sip:4505656010@virtsanity.mtl.broadsoft.com
CSeq	587158158 BYE
Call-ID	6e656a5f-be5dcbdd-8e03cee@192.168.9.212
Contact	<sip:4505656010@192.168.9.212>

💡 [Frame 66] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

✓ SIP 200 OK

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
CSeq	100578836 NOTIFY
Call-ID	37ac204-dff2e01a-8cb7264d@192.168.9.121
Contact	<sip:6010_SCA1@192.168.9.121>

💡 [Frame 67] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

✓ SIP 200 OK

From	sip:4505656010@virtsanity.mtl.broadsoft.com
To	sip:4505656010@virtsanity.mtl.broadsoft.com
CSeq	100578835 NOTIFY
Call-ID	f7492fb-31a67f79-73fc330a@192.168.9.212
Contact	<sip:4505656010@192.168.9.212>

💡 [Frame 68] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

✓ SIP ACK

From	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
To	sip:6010_SCA1@virtsanity.mtl.broadsoft.com
CSeq	1 ACK
Call-ID	86678647-ad658fe5-e60b77bc@192.168.9.121

Frame 69 | 2010-06-17T13:00:07.706701Z

✓ SIP ACK

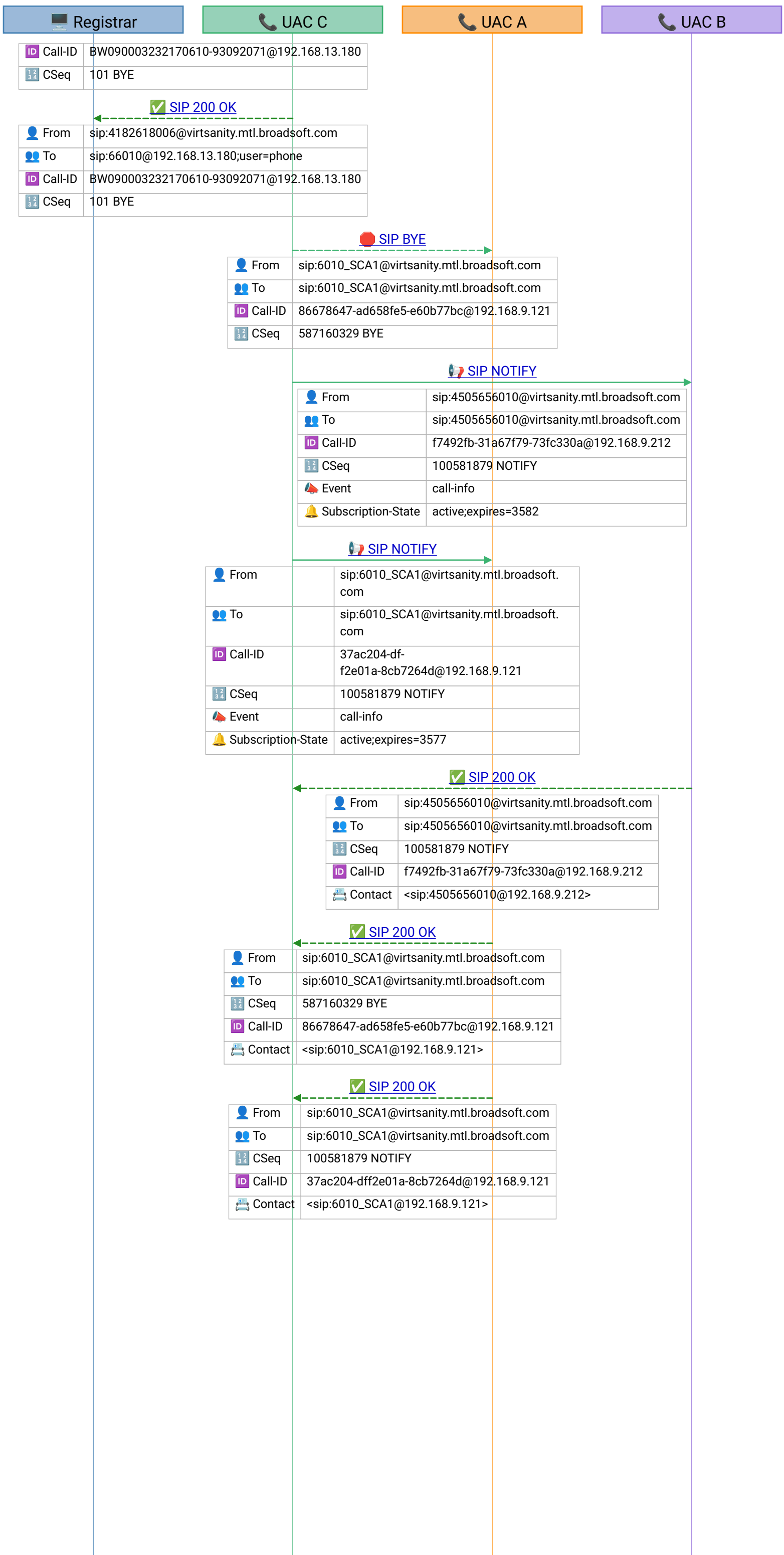
From	sip:66010@192.168.13.180;user=phone
To	sip:4182618006@virtsanity.mtl.broadsoft.com
Call-ID	BW090003232170610-93092071@192.168.13.180
CSeq	587158163 ACK

Frame 70 | 2010-06-17T13:00:07.70861Z

● SIP BYE

From	sip:4182618006@virtsanity.mtl.broadsoft.com
To	sip:66010@192.168.13.180;user=phone

💡 [Frame 71] SIP BYE terminates an established dialog; either party can send it, and the receiving side responds with 200 OK to confirm teardown of the RTP media streams and release resources



💡 [Frame 72] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

💡 [Frame 73] SIP BYE terminates an established dialog; either party can send it, and the receiving side responds with 200 OK to confirm teardown of the RTP media streams and release resources

Frame 74 | 2010-06-17T13:00:10.615482Z

Frame 75 | 2010-06-17T13:00:10.615759Z

💡 [Frame 76] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

💡 [Frame 77] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin

💡 [Frame 78] SIP 200 OK in response to INVITE carries the SDP answer (codec, IP, port) and completes the offer/answer negotiation; caller then sends ACK to finalize the dialog and RTP flows begin