

SIP Proxy SIP Phone A SIP Phone D Router SIP Phone B

rtp_sip_isac.pcapng

SIP INVITE

Via	SIP/2.0/UDP 10.180.110.58:5060;branch=z9hG4bK27619ED
Call-ID	89A5631E-6DB011E9-997EE3AD-C1443EBC@10.180.110.58
UA	Cisco-SIPGateway/IOS-16.9.2
CSeq	101 INVITE
Max-Fwd	70
Contact	<sip:10.180.110.58:5060>
Owner	CiscoSystemsSIP-GW-UserAgent 9282 2172 IN IP4 10.180.110.58
Session Name (s)	SIP Call
Connection	IN IP4 10.180.110.58
Media	audio 8468 RTP/AVP 124 101 19
Connection	IN IP4 10.180.110.58
Attr	rtpmap:124 iSAC/16000
Attr	rtpmap:101 telephone-event/8000
Attr	fntp:101 0-16
Attr	rtpmap:19 CN/8000

💡 SIP INVITE initiates a call – carries SDP offer with codec/media proposals; callee responds with 180 Ringing, then 200 OK with SDP answer

Frame 2 |
2019-05-04T14:34:20.251985Z

Frame 3 |
2019-05-04T14:34:20.252977Z

💡 SIP INVITE initiates a call – carries SDP offer with codec/media proposals; callee responds with 180 Ringing, then 200 OK with SDP answer

💡 100 Trying – proxy accepted the request and is searching for the callee; stops retransmission timer; no end-to-end significance

💡 180 Ringing – callee's phone is alerting; caller hears locally generated ringback; 183 with SDP offers early media (in-band ringback) instead

💡 SIP REGISTER binds a contact URI to an AOR (Address of Record) at the registrar; Expires=0 means unregister; 401 triggers Digest auth challenge

⊘ SIP 422 Session Timer too small

SIP ACK

Call-ID	89A5631E-6DB011E9-997EE3AD-C1443EBC@10.180.110.58
CSeq	101 ACK

SIP INVITE

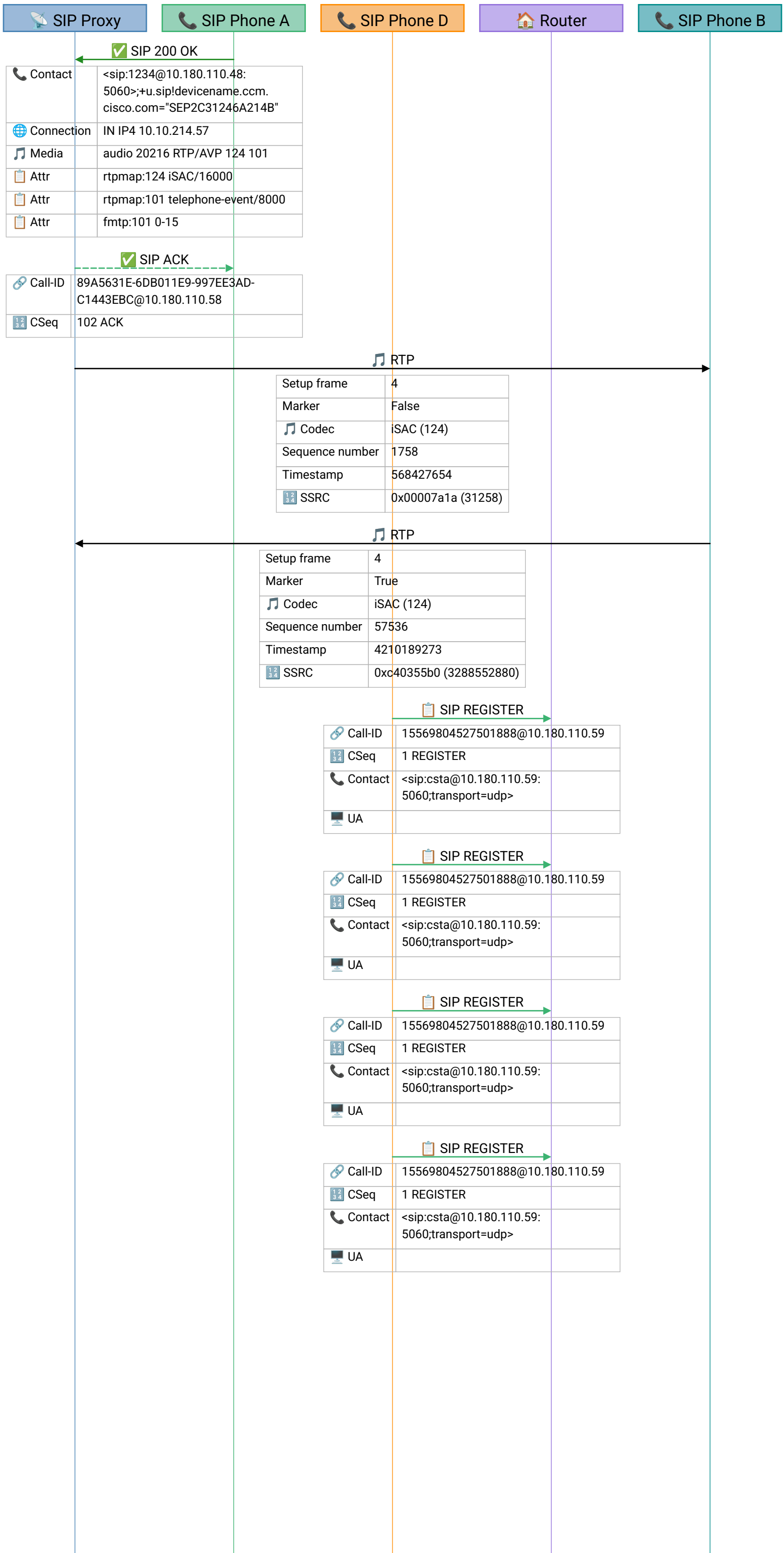
Via	SIP/2.0/UDP 10.180.110.58:5060;branch=z9hG4bK2771DCB
Call-ID	89A5631E-6DB011E9-997EE3AD-C1443EBC@10.180.110.58
UA	Cisco-SIPGateway/IOS-16.9.2
CSeq	102 INVITE
Max-Fwd	70
Contact	<sip:10.180.110.58:5060>
Owner	CiscoSystemsSIP-GW-UserAgent 9282 2172 IN IP4 10.180.110.58
Session Name (s)	SIP Call
Connection	IN IP4 10.180.110.58
Media	audio 8468 RTP/AVP 124 101 19
Connection	IN IP4 10.180.110.58
Attr	rtpmap:124 iSAC/16000
Attr	rtpmap:101 telephone-event/8000
Attr	fntp:101 0-16
Attr	rtpmap:19 CN/8000

🕒 SIP 100 Trying

🔔 SIP 180 Ringing

SIP REGISTER

Call-ID	15569804527501888@10.180.110.59
CSeq	1 REGISTER
Contact	<sip:csta@10.180.110.59:5060;transport=udp>
UA	



💡 200 OK – call answered (for INVITE) or registration accepted (for REGISTER); SDP answer completes codec negotiation; caller must send ACK to complete 3-way handshake

Frame 9 | 2019-05-04T14:34:21.343976Z

Frame 10 | 2019-05-04T14:34:21.39097Z

Frame 15 | 2019-05-04T14:34:21.526965Z

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