

rtp\_sip\_g711ulaw\_30ms.pcapng

SIP INVITE

Via	SIP/2.0/UDP 10.180.110.58:5060;branch=z9hG4bK2611419
Call-ID	9920A891-6DAF11E9-9953E3AD-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 5961 521 IN IP4 10.180.110.58
Session Name (s)	SIP Call
Connection	IN IP4 10.180.110.58
Media	audio 8454 RTP/AVP 0 101
Connection	IN IP4 10.180.110.58
Attr	rtpmap:0 PCMU/8000
Attr	rtpmap:101 telephone-event/8000
Attr	fmp:101 0-16
Attr	ptime:30

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

⚠️ SIP 422 Session Timer too small

✓ SIP ACK

Call-ID	9920A891-6DAF11E9-9953E3AD-C1443EBC@10.180.110.58
CSeq	101 ACK

Frame 2 | 2019-05-04T14:27:36.72895Z

Frame 3 | 2019-05-04T14:27:36.729957Z

SIP INVITE

Via	SIP/2.0/UDP 10.180.110.58:5060;branch=z9hG4bK2628D4
Call-ID	9920A891-6DAF11E9-9953E3AD-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 5961 521 IN IP4 10.180.110.58
Session Name (s)	SIP Call
Connection	IN IP4 10.180.110.58
Media	audio 8454 RTP/AVP 0 101
Connection	IN IP4 10.180.110.58
Attr	rtpmap:0 PCMU/8000
Attr	rtpmap:101 telephone-event/8000
Attr	fmp:101 0-16
Attr	ptime:30

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

⌚ SIP 100 Trying

🔔 SIP 180 Ringing

✓ SIP 200 OK

💡 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

💡 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

Contact	<sip:1234@10.180.110.48:5060>;+u.sip!devicename.ccm.cisco.com="SEP2C31246A214B"
Connection	IN IP4 10.10.214.57
Media	audio 17060 RTP/AVP 0 101
Attr	rtpmap:0 PCMU/8000
Attr	rtpmap:101 telephone-event/8000
Attr	fmp:101 0-15

✓ SIP ACK

Call-ID	9920A891-6DAF11E9-9953E3AD-C1443EBC@10.180.110.58
CSeq	102 ACK

Frame 8 | 2019-05-04T14:27:37.811954Z

🎵 RTP

Setup frame	4
Marker	False
Codec	ITU-T G.711 PCMU (0)

Frame 9 | 2019-05-04T14:27:37.857942Z

SIP Proxy

SIP Phone A

SIP Phone B

Sequence number	4076
Timestamp	338119172
SSRC	0x00007a44 (31300)

RTP



Setup frame	4
Marker	True
Codec	ITU-T G.711 PCMU (0)
Sequence number	7310
Timestamp	280009983
SSRC	0x13e12847 (333523015)

Frame 13 |  
2019-05-04T14:27:37.975947Z