

SIP Phone A

SIP Proxy

sip\_refer\_transfer.pcapng

SIP INVITE sip:8675309@10.180.110.58:5060 SIP/2.0

Frame 2 |  
2019-05-04T15:15:49.109979Z

Via	SIP/2.0/TCP 10.180.110.48:5060;branch=z9hG4bK1c216bb8883
Call-ID	7e404600-10001-1741-93f492a@10.180.110.48
CSeq	101 INVITE
Contact	<sip:1234@10.180.110.48:5060;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP2C31246A214B"
Owner	CiscoSystemsCCM-SIP 155647 1 IN IP4 10.180.110.48
Connection	IN IP4 10.10.214.57
Media	audio 22290 RTP/AVP 114 9 124 113 115 0 8 116 18 101
Attr	rtpmap:114 opus/48000/2
Attr	fmtp:114 maxplaybackrate=16000;sprop-maxcapture=16000;maxaveragebitrate=64000;stereo=0;sprop-stereo=0;usedtx=0
Attr	rtpmap:9 G722/8000
Attr	rtpmap:124 iSAC/16000
Attr	rtpmap:113 AMR-WB/16000
Attr	fmtp:113 mode-change-capability=2
Attr	rtpmap:115 AMR-WB/16000
Attr	fmtp:115 octet-align=1;mode-change-capability=2...
	8 more

SIP 100 Trying

Frame 3 |  
2019-05-04T15:15:49.116983Z

SIP 183 Session Progress

💡 183 Session Progress – early media with SDP answer; RTP flows before call is answered

Connection	IN IP4 10.180.110.58
Media	audio 8514 RTP/AVP 0 101
Connection	IN IP4 10.180.110.58

SIP 200 OK

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake

Contact	<sip:8675309@10.180.110.58:5060;transport=tcp>
Connection	IN IP4 10.180.110.58
Media	audio 8514 RTP/AVP 0 101
Connection	IN IP4 10.180.110.58

SIP ACK sip:8675309@10.180.110.58:5060;transport=tcp SIP/2.0

Frame 8 |  
2019-05-04T15:15:49.129982Z

Via	SIP/2.0/TCP 10.180.110.48:5060;branch=z9hG4bK1c2260e317b5
Call-ID	7e404600-10001-1741-93f492a@10.180.110.48
CSeq	101 ACK

SIP INVITE sip:1234@10.180.110.48:5060;transport=tcp SIP/2.0

Frame 9 |  
2019-05-04T15:15:49.131981Z

Via	SIP/2.0/TCP 10.180.110.58:5060;branch=z9hG4bK2A32447
Call-ID	7e404600-10001-1741-93f492a@10.180.110.48
CSeq	101 INVITE
Contact	<sip:8675309@10.180.110.58:5060;transport=tcp>
Owner	CiscoSystemsSIP-GW-UserAgent 3063 1944 IN IP4 10.180.110.58
Connection	IN IP4 10.180.110.58
Media	audio 8514 RTP/AVP 0 101
Connection	IN IP4 10.180.110.58
Attr	rtpmap:0 PCMU/8000
Attr	rtpmap:101 telephone-event/8000
Attr	fmtp:101 0-16
Attr	ptime:20
Attr	sendonly

SIP 100 Trying

Frame 10 |  
2019-05-04T15:15:49.13398Z

SIP 200 OK

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake

Contact	<sip:1234@10.180.110.48:5060;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP2C31246A214B"
Connection	IN IP4 10.10.214.57
Media	audio 22290 RTP/AVP 0 101

SIP ACK sip:1234@10.180.110.48:5060;transport=tcp SIP/2.0

Frame 12 |  
2019-05-04T15:15:49.244982Z

Via	SIP/2.0/TCP 10.180.110.58:5060;branch=z9hG4bK2A4256B
Call-ID	7e404600-10001-1741-93f492a@10.180.110.48
CSeq	101 ACK

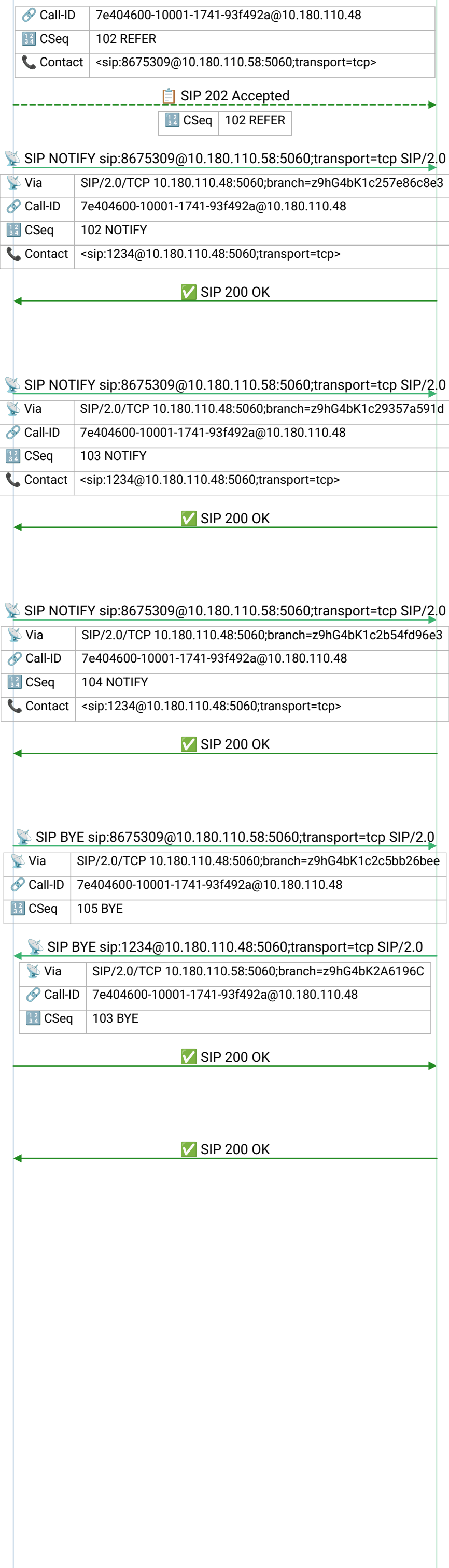
SIP REFER sip:1234@10.180.110.48:5060;transport=tcp SIP/2.0

Frame 13 |  
2019-05-04T15:15:49.244982Z

Via	SIP/2.0/TCP 10.180.110.58:5060;branch=z9hG4bK2A515BD
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SIP Phone A

SIP Proxy



Frame 14 | 2019-05-04T15:15:49.247973Z

Frame 15 | 2019-05-04T15:15:49.330976Z

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake

Frame 17 | 2019-05-04T15:15:49.42997Z

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake

Frame 19 | 2019-05-04T15:15:51.834948Z

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake

Frame 21 | 2019-05-04T15:15:51.836947Z

Frame 22 | 2019-05-04T15:15:51.837954Z

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake

💡 200 OK – call answered or registration accepted; SDP answer completes codec negotiation; ACK required to complete INVITE 3-way handshake