**WORKING SIP REGISTER MESSAGE**

Frame 1: 657 bytes on wire (5256 bits), 657 bytes captured (5256 bits)

Linux cooked capture

Internet Protocol Version 4, Src: CLIENT\_IP, Dst: 10.255.250.20

User Datagram Protocol, Src Port: 5060, Dst Port: 9000

Session Initiation Protocol (REGISTER)

 Request-Line: REGISTER sip:DOMAIN\_NAME:9000 SIP/2.0

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK1249437591;rport

 From: "2000" <sip:2000@DOMAIN\_NAME:9000>;tag=631540515

 To: "2000" <sip:2000@DOMAIN\_NAME:9000>

 Call-ID: 0\_1774794180@192.168.1.101

 CSeq: 1 REGISTER

 Contact: <sip:2000@192.168.1.101:5060>

 Allow: INVITE, INFO, PRACK, ACK, BYE, CANCEL, OPTIONS, NOTIFY, REGISTER, SUBSCRIBE, REFER, PUBLISH, UPDATE, MESSAGE

 Max-Forwards: 70

 User-Agent: Yealink SIP-T48G 35.82.0.20

 Expires: 600

 Allow-Events: talk,hold,conference,refer,check-sync

 Content-Length: 0

Frame 2: 689 bytes on wire (5512 bits), 689 bytes captured (5512 bits)

Linux cooked capture

Internet Protocol Version 4, Src: FREESWITCH\_IP, Dst: CLIENT\_IP

User Datagram Protocol, Src Port: 9000, Dst Port: 5060

Session Initiation Protocol (401)

Status-Line: SIP/2.0 401 Unauthorized

Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK1249437591;rport=5060;received=CLIENT\_IP

 From: "2000" <sip:2000@DOMAIN\_NAME:9000>;tag=631540515

 To: "2000" <sip:2000@DOMAIN\_NAME:9000>;tag=X81cXcjHtN8Nc

 Call-ID: 0\_1774794180@192.168.1.101

 CSeq: 1 REGISTER

 User-Agent: NetrixUC-1

 Allow: INVITE, ACK, BYE, CANCEL, OPTIONS, MESSAGE, INFO, UPDATE, REGISTER, REFER, NOTIFY, PUBLISH, SUBSCRIBE

 Supported: timer, path, replaces

 WWW-Authenticate: Digest realm="DOMAIN\_NAME", nonce="f218a9d0-5390-422c-b14f-9731969cae83", algorithm=MD5, qop="auth"

 Content-Length: 0

Frame 3: 913 bytes on wire (7304 bits), 913 bytes captured (7304 bits)

Linux cooked capture

Internet Protocol Version 4, Src: CLIENT\_IP, Dst: 10.255.250.20

User Datagram Protocol, Src Port: 5060, Dst Port: 9000

Session Initiation Protocol (REGISTER)

 Request-Line: REGISTER sip:DOMAIN\_NAME:9000 SIP/2.0

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK1223337847;rport

 From: "2000" <sip:2000@DOMAIN\_NAME:9000>;tag=631540515

 To: "2000" <sip:2000@DOMAIN\_NAME:9000>

 Call-ID: 0\_1774794180@192.168.1.101

 CSeq: 2 REGISTER

 Contact: <sip:2000@192.168.1.101:5060>

 [truncated]Authorization: Digest username="2000", realm="DOMAIN\_NAME", nonce="f218a9d0-5390-422c-b14f-9731969cae83", uri="sip:DOMAIN\_NAME:9000", response="477ff584494f1f7f37e177ce453426b7", algorithm=MD5, cnonce="0a4f1

 Allow: INVITE, INFO, PRACK, ACK, BYE, CANCEL, OPTIONS, NOTIFY, REGISTER, SUBSCRIBE, REFER, PUBLISH, UPDATE, MESSAGE

 Max-Forwards: 70

 User-Agent: Yealink SIP-T48G 35.82.0.20

 Expires: 600

 Allow-Events: talk,hold,conference,refer,check-sync

 Content-Length: 0

Frame 4: 648 bytes on wire (5184 bits), 648 bytes captured (5184 bits)

Linux cooked capture

Internet Protocol Version 4, Src: 10.255.250.20, Dst: CLIENT\_IP

User Datagram Protocol, Src Port: 9000, Dst Port: 5060

Session Initiation Protocol (200)

 Status-Line: SIP/2.0 200 OK

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK1223337847;rport=5060;received=CLIENT\_IP

 From: "2000" <sip:2000@DOMAIN\_NAME:9000>;tag=631540515

 To: "2000" <sip:2000@DOMAIN\_NAME:9000>;tag=yHU5y72mQyy8Q

 Call-ID: 0\_1774794180@192.168.1.101

 CSeq: 2 REGISTER

 Contact: <sip:2000@192.168.1.101:5060>;expires=600

 Date: Tue, 23 Jan 2018 05:17:15 GMT

 User-Agent: NetrixUC-1

 Allow: INVITE, ACK, BYE, CANCEL, OPTIONS, MESSAGE, INFO, UPDATE, REGISTER, REFER, NOTIFY, PUBLISH, SUBSCRIBE

 Supported: timer, path, replaces

 Content-Length: 0

**NOT WORKING SIP REGISTER MESSAGE:**

Frame 1: 616 bytes on wire (4928 bits), 616 bytes captured (4928 bits)

Linux cooked capture

Internet Protocol Version 4, Src: CLIENT\_IP, Dst: SERVER\_IP

User Datagram Protocol, Src Port: 5060, Dst Port: 9000

Session Initiation Protocol (REGISTER)

 Request-Line: REGISTER sip:DOMAIN\_NAME SIP/2.0

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK2348515214;rport

 From: "devlab" <sip:1007@DOMAIN\_NAME>;tag=2881956822

 To: "devlab" <sip:1007@DOMAIN\_NAME>

 Call-ID: 1\_2332054758@192.168.1.101

 CSeq: 1 REGISTER

 Contact: <sip:1007@192.168.1.101:5060>

 Allow: INVITE, INFO, PRACK, ACK, BYE, CANCEL, OPTIONS, NOTIFY, REGISTER, SUBSCRIBE, REFER, PUBLISH, UPDATE, MESSAGE

 Max-Forwards: 70

 User-Agent: Yealink SIP-T48G 35.82.0.20

 Expires: 80

 Allow-Events: talk,hold,conference,refer,check-sync

 Content-Length: 0

Frame 2: 485 bytes on wire (3880 bits), 485 bytes captured (3880 bits)

Linux cooked capture

Internet Protocol Version 4, Src: SERVER\_IP, Dst: CLIENT\_IP

User Datagram Protocol, Src Port: 9000, Dst Port: 5060

Session Initiation Protocol (401)

 Status-Line: SIP/2.0 401 Unauthorized

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK2348515214;rport=5060;received=CLIENT\_IP

 From: "devlab" <sip:1007@DOMAIN\_NAME>;tag=2881956822

 To: "devlab" <sip:1007@DOMAIN\_NAME>;tag=606cfb8879ac643702e316e1de73eabe.9da8

 Call-ID: 1\_2332054758@192.168.1.101

 CSeq: 1 REGISTER

 WWW-Authenticate: Digest realm="DOMAIN\_NAME", nonce="WmbFy1pmxJ/PqNo0wclrLkj9YXyrpdGf"

 Content-Length: 0

**ALLOW METHODS AND ALLOW EVENTS ARE MISSING**

Frame 3: 814 bytes on wire (6512 bits), 814 bytes captured (6512 bits)

Linux cooked capture

Internet Protocol Version 4, Src: CLIENT\_IP, Dst: SERVER\_IP

User Datagram Protocol, Src Port: 5060, Dst Port: 9000

Session Initiation Protocol (REGISTER)

 Request-Line: REGISTER sip:DOMAIN\_NAME SIP/2.0

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK613395913;rport

 From: "devlab" <sip:1007@DOMAIN\_NAME>;tag=2881956822

 To: "devlab" <sip:1007@DOMAIN\_NAME>

 Call-ID: 1\_2332054758@192.168.1.101

 CSeq: 2 REGISTER

 Contact: <sip:1007@192.168.1.101:5060>

 Authorization: Digest username="1007", realm="DOMAIN\_NAME", nonce="WmbFy1pmxJ/PqNo0wclrLkj9YXyrpdGf", uri="sip:DOMAIN\_NAME", response="5b23f2956061c4f52a93045297cde070", algorithm=MD5

 Allow: INVITE, INFO, PRACK, ACK, BYE, CANCEL, OPTIONS, NOTIFY, REGISTER, SUBSCRIBE, REFER, PUBLISH, UPDATE, MESSAGE

 Max-Forwards: 70

 User-Agent: Yealink SIP-T48G 35.82.0.20

 Expires: 80

 Allow-Events: talk,hold,conference,refer,check-sync

 Content-Length: 0

Frame 4: 471 bytes on wire (3768 bits), 471 bytes captured (3768 bits)

Linux cooked capture

Internet Protocol Version 4, Src: SERVER\_IP, Dst: CLIENT\_IP

User Datagram Protocol, Src Port: 9000, Dst Port: 5060

Session Initiation Protocol (200)

 Status-Line: SIP/2.0 200 OK

 Message Header

 Via: SIP/2.0/UDP 192.168.1.101:5060;branch=z9hG4bK613395913;rport=5060;received=CLIENT\_IP

 From: "devlab" <sip:1007@DOMAIN\_NAME>;tag=2881956822

 To: "devlab" <sip:1007@DOMAIN\_NAME>;tag=606cfb8879ac643702e316e1de73eabe.f691

 Call-ID: 1\_2332054758@192.168.1.101

 CSeq: 2 REGISTER

 Contact: <sip:1007@192.168.1.101:5060>;q=1;expires=1200;received="sip:CLIENT\_IP:5060"

 Content-Length: 0

**ALLOW METHODS ARE MISSING**