

SIP TRUNKING CONFIGURATION GUIDE FOR AVAYA IP OFFICE 500 9.0.5

DOCUMENT VERSION 0.1

COMCAST
BUSINESS

tekVizion™
LABS

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1. AUDIENCE

This document is intended for the Comcast SIP Trunk customer's technical staff and Value Added Retailer (VAR) having installation and operational responsibilities.

2. INTRODUCTION

This Configuration Guide describes configuration steps for Comcast SIP Trunking to Avaya IP Office 500.

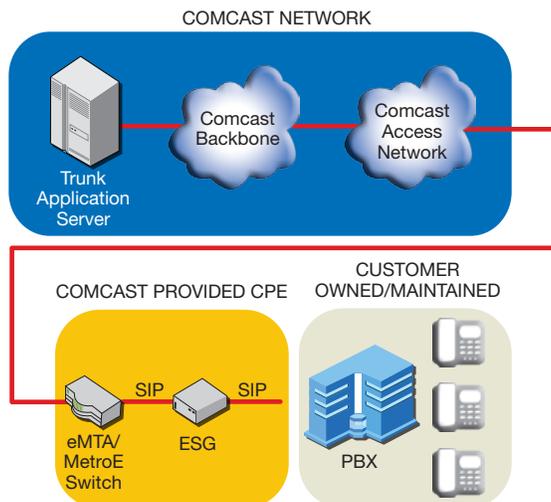


Figure 1. MSO Network

2.1 TEKVISION LABS

Comcast has contracted with tekVizion Labs to perform third party interoperability testing, PBX configuration documentation and installation support. tekVizion Labs™ is an independent testing and Verification facility offered by tekVizion PVS, Inc. ("tekVizion"). tekVizion Labs offers several types of testing services including:

- Remote Testing – provides secure, remote access to certain products in tekVizion Labs for pre-Verification and ad hoc testing
- Verification Testing – Verification of interoperability performed on-site at tekVizion Labs between two products or in a multi-vendor configuration ("solution Verification")
- Product Assessment – independent assessment and verification of product functionality, interface usability, assessment of differentiating features as well as suggestions for added functionality, stress and performance testing, etc.

tekVizion is a systems integrator specifically dedicated to the telecommunications industry. tekVizion core services include consulting/solution design, interoperability/Verification testing, integration, custom software development and solution support services. These services help service providers achieve a smooth transition to packet-voice networks, speeding delivery of integrated services. While we have expertise covering a wide range of technologies, we have extensive experience surrounding our FastForward>> practice areas which include: SIP Trunking, Packet Voice, Service Delivery, and Integrated Services.

The tekVizion team brings together experience from the leading service providers and vendors in telecom. Their unique expertise includes legacy switching services and platforms, and unparalleled product knowledge, interoperability and integration experience on a vast array of VoIP and other next-generation products. We rely on this combined experience to do what we do best: help our clients advance the rollout of services that excite customers and result in new revenues for the bottom line. tekVizion leverages this real-world, multi-vendor integration and test experience and proven processes to offer services to vendors, network operators, enhanced service providers, large enterprises and other professional services firms. tekVizion's headquarters, along with a state-of-the-art test lab and Executive Briefing Center, is located in the Telecom Corridor® in Plano, Texas.

(For more information on tekVizion and its practice areas, please visit tekVizion Labs's web site at www.tekVizionlabs.com.)

3. SIP TRUNKING NETWORK COMPONENTS

The network for the SIP trunk reference configuration is illustrated below and is representative of the Avaya IP Office 500 configuration.

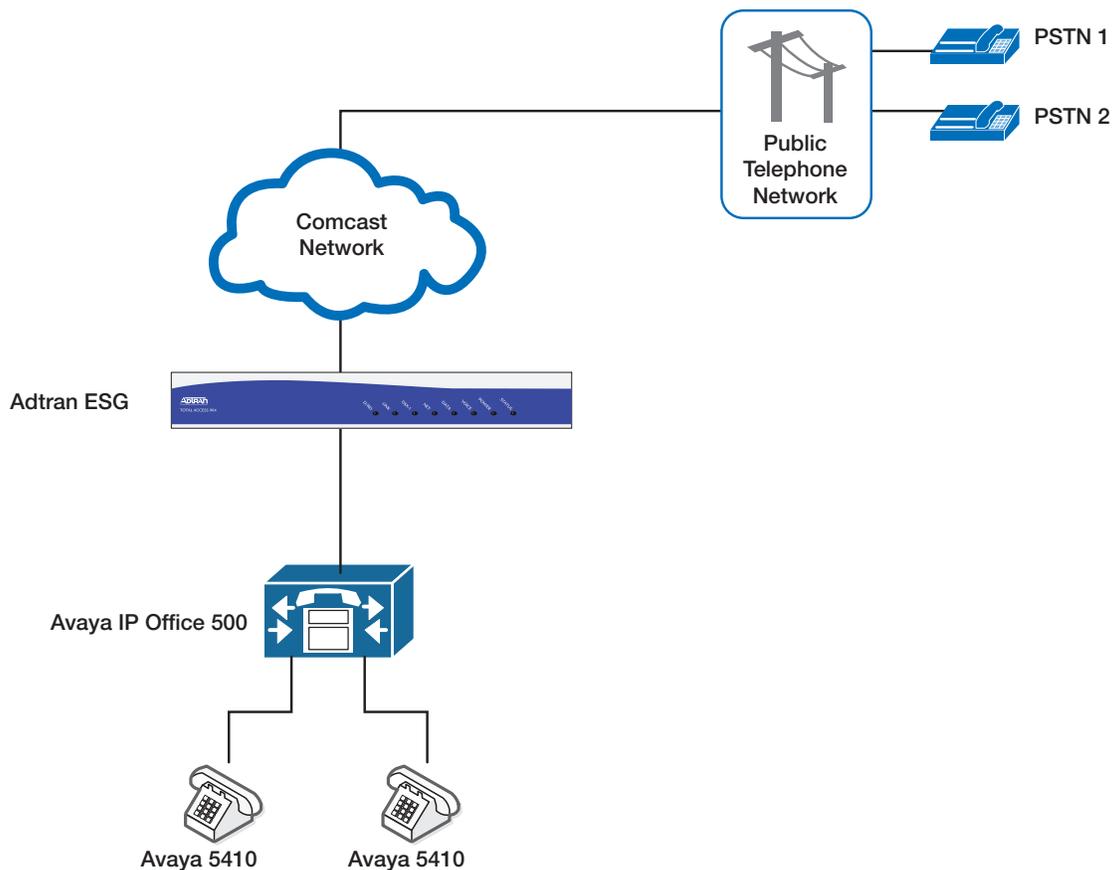


Figure 2. SIP Trunk Lab Reference Network

3.1 COMCAST ENTERPRISE SERVICE GATEWAY

The Comcast ESG (Enterprise Service Gateway) is SIP B2BUA that is deployed and managed by Comcast. The ESG functions as a Back to Back User Agent that interfaces with the customer PBX and acts as a SIP gateway between the customer PBX and the Comcast network. The ESG anchors all SIP and RTP traffic thereby providing a demarcation point for the customer's internal network. There are currently two models of ESG supported; Adtran 3430 and Adtran 4430.

3.2 HARDWARE COMPONENTS

- Avaya IP Office 500 – Provided and managed by Customer
- Comcast (Adtran) ESG – Provided and managed by Comcast

3.3 SOFTWARE REQUIREMENTS

- Avaya IP Office 500 R9.0.5 – Provided and managed by Customer
- Comcast (Adtran) ESG R11.3.0.V – Provided and managed by Comcast

3.4 PBX CONFIGURATION

Table 1. PBX Configuration

PBX Parameter	PBX Configuration
SIP Messages	Must be Anchored on Avaya IP Office 500
RTP Packets	Must be Anchored on Avaya IP Office 500
SIP Registration to ESG	IP PBX is non-registering to ESG
DTMF offer on calls	RFC2833 and Inband

4. FEATURES

4.1 SIP REGISTRATION METHOD

Comcast supports but does not require SIP REGISTER methods. Comcast does require the SIP PBX to have a static IP address and provide the address to Comcast for ESG provisioning.

4.2 FEATURES SUPPORTED

- Basic calls using G.711ulaw
- Call Transfer
- Call Forwarding
- Call Waiting
- Three-Way Calling

4.3 FEATURES NOT SUPPORTED BY PBX

- Blind Transfer.
- 911 prioritization over other calls.

5. CAVEATS, LIMITATIONS AND KNOWN ISSUES

- None

6. CONFIGURATION

6.1 CONFIGURATION CHECKLIST

The specific values listed in the table below and in subsequent sections are used in the lab configuration described in this document, and are for **illustrative purposes only**. The customer must obtain and use the values for your deployment.

Table 2. IP Addresses

Component	Lab Value	Customer Value
Adtran ESG E-SBC		
• LAN IP Address	10.64.2.10	
• LAN Subnet Mask	255.255.0.0	
• WAN IP Address	10.25.128.228	
• WAN Subnet Mask	255.255.255.248	
Avaya IP Office 500		
• IP Address	10.64.2.42	
• LAN Subnet Mask	255.255.0.0	

6.2 AVAYA IP OFFICE 500 CONFIGURATION

These are the main tasks to configure Avaya IP Office 500 to perform Direct SIP integration with Adtran:

- 6.2.1 System Configuration
- 6.2.2 SIP Line Settings
- 6.2.3 Extension Settings
- 6.2.4 User Settings
- 6.2.5 Incoming Call Route
- 6.2.6 IP Route
- 6.2.7 Save Configuration

6.2.1 System Configuration

1. From the main menu tree, click on System, LAN1 tab, and LAN Settings tab.
2. IP address is set to 10.64.2.42 for example. This is Avaya's LAN IP Address.
3. IP Mask is set to 255.255.0.0 for example. This is Avaya's LAN IP Mask.
4. DHCP Mode is Disabled.

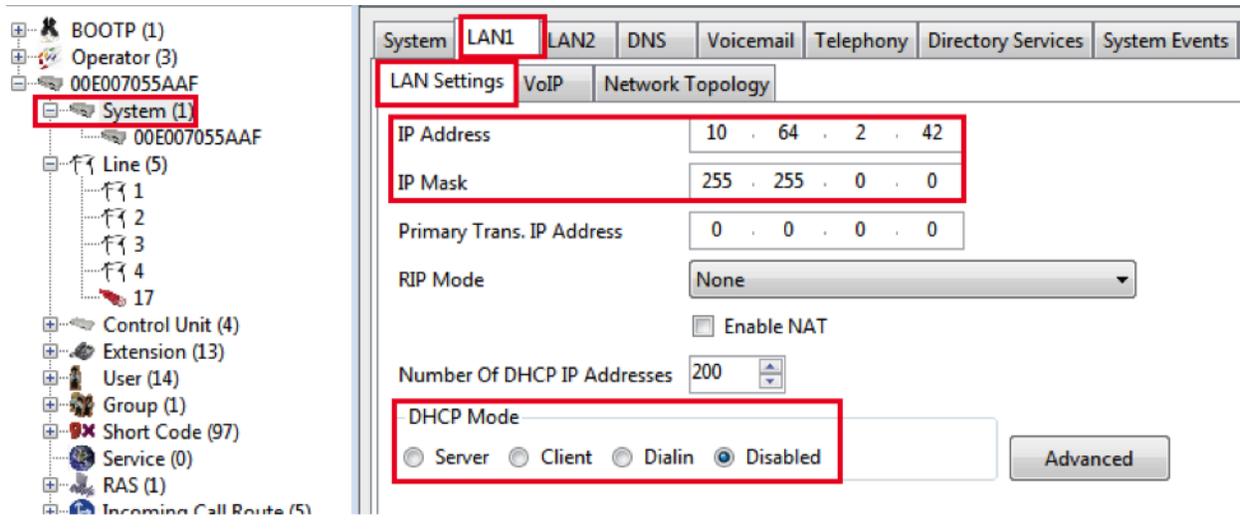


Figure 3. System Configuration

NOTE: following section is only used if Site installation requires setting the system to act as a SIP registrar where SIP endpoint devices can register

5. Click on the VoIP tab.
6. H323 Gatekeeper Enable is checked.
7. SIP Trunks Enable is checked.
8. SIP Registrar is Enable is checked.
9. Auto-create Extn/User is checked.
10. UDP is checked and Remote UDP Port is set to 5060.
11. TCP is checked and Remote TCP Port is set to 5060.
12. RTP Port Number Range Minimum is set to 49152.
13. RTP Port Number Range Maximum is set to 53246.

System	LAN1	LAN2	DNS	Voicemail	Telephony	Directory Services	System Events
LAN Settings		VoIP	Network Topology				
<input checked="" type="checkbox"/> H323 Gatekeeper Enable <input type="checkbox"/> Auto-create Extn <input type="checkbox"/> Auto-create User							
<input checked="" type="checkbox"/> SIP Trunks Enable <input checked="" type="checkbox"/> SIP Registrar Enable <input checked="" type="checkbox"/> Auto-create Extn/User							
Domain Name							
Layer 4 Protocol		<input checked="" type="checkbox"/> UDP UDP Port 5060 <input checked="" type="checkbox"/> TCP TCP Port 5060 <input type="checkbox"/> TLS TLS Port 5061					
Challenge Expiry Time (secs)		10					
RTP							
Port Number Range							
Minimum		49152	Maximum		53246		

Figure 4. System Configuration continued

14. Click on DNS tab.
15. DNS Server IP Address is set to 10.64.1.3 for example.

System	LAN1	LAN2	DNS	Voicemail	Telephony	Directory Services	System Events
DNS Server IP Address		10 . 64 . 1 . 3					
Backup DNS Server IP Address		0 . 0 . 0 . 0					
DNS Domain							
WINS Server IP Address		0 . 0 . 0 . 0					
Backup WINS Server IP Address		0 . 0 . 0 . 0					
WINS Scope							

Figure 5. System Configuration continued

16. Click on Telephony and Telephony tab.
17. Companding Law Switch is set to U-Law and Line is set to U-Law Line for example.
18. Auto Hold is checked. This allows call waiting.
19. Verify Inhibit Off-Switch Forward/Transfer is not checked.

The screenshot displays the 'Telephony' configuration page. At the top, a navigation bar includes tabs for System, LAN1, LAN2, DNS, Voicemail, Telephony, Directory Services, System Events, SMTP, SMDR, Twinning, VCM, CCR, and Codecs. Below this, a sub-navigation bar includes Telephony, Park & Page, Tones & Music, Ring Tones, SM, Call Log, and TUI. The main content area is divided into two columns. The left column, titled 'Analogue Extensions', contains several dropdown menus for call sequences and a list of numeric settings for dial delay, no answer time, hold timeout, park timeout, ring delay, and call priority promotion time. The right column, titled 'Companding Law', contains two sub-sections: 'Switch' and 'Line'. In the 'Switch' section, the 'U-Law' radio button is selected. In the 'Line' section, the 'U-Law Line' radio button is selected. Below these sections are several checkboxes for various features, including 'Auto Hold' (checked), 'Inhibit Off-Switch Forward/Transfer' (unchecked), 'DSS Status', 'Dial By Name', 'Show Account Code', 'Restrict Network Interconnect', 'Drop External Only Impromptu Conference', 'Visually Differentiate External Call', 'Unsupervised Analog Trunk Disconnect Handling', 'High Quality Conferencing', 'Strict SIPs', and 'Digital/Analogue Auto Create User'.

Figure 6. System Configuration continued

20. Click on Tones and Music.
21. Hold Music System Source is set to Tone for example. This can also be set to Wav File or External, but requires a Wav File or an external music source respectively.

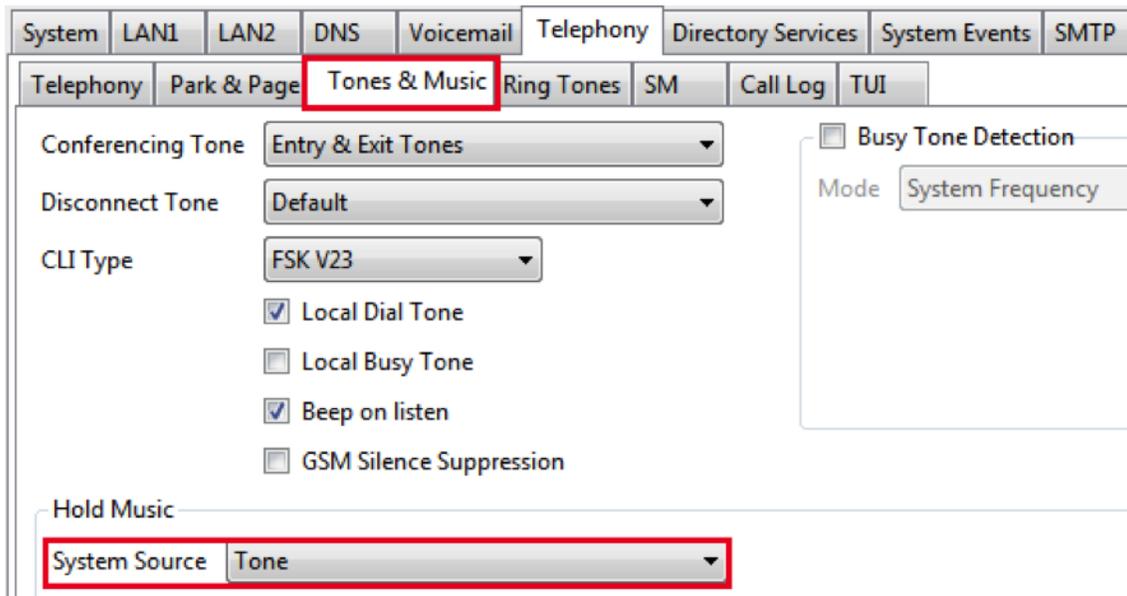


Figure 7. System Configuration continued

6.2.2 SIP Line Settings

1. From the main menu tree, right click on Line, New, and SIP Line.

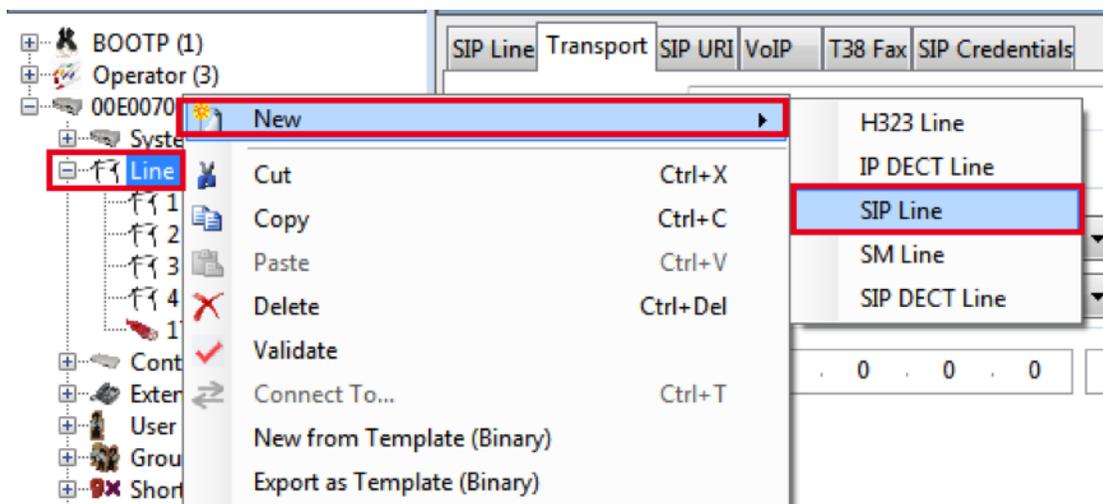


Figure 8. SIP Line Settings

2. Click on SIP Line tab.
3. ITSP Domain Name is set to 10.64.2.10 for example. This is the Adtran's LAN IP Address.
4. Send Caller ID is set to Diversion Header.
5. REFER support is unchecked.
6. In Service is checked.
7. Check OSS is checked.

The screenshot shows the 'SIP Line' configuration page with the following settings:

- Line Number: 17
- ITSP Domain Name: 10.64.2.10
- In Service:
- URI Type: SIP
- Check OSS:
- Prefix: (empty)
- National Prefix: 0
- Country Code: (empty)
- International Prefix: 00
- Send Caller ID: Diversion Header
- Association Method: By Source IP address
- Call Routing Method: Request URI
- Originator number for forwarded and twinning calls: (empty)
- Name Priority: System Default
- Caller ID from From header:
- Send From In Clear:
- User-Agent and Server Headers: (empty)
- Service Busy Response: 486 - Busy Here
- Action on CAC Location Limit: Allow Voicemail
- REFER Support:
 - Incoming: Auto
 - Outgoing: Auto

Figure 9. SIP Line Settings continued

8. Click on Transport tab.
9. ITSP Proxy Address is set to 10.64.2.10 for example. This is the Adtran's LAN IP address.

The screenshot shows the 'Transport' configuration page with the following settings:

- ITSP Proxy Address: 10.64.2.10
- Layer 4 Protocol: UDP
- Send Port: 5060
- Listen Port: 5060
- Use Network Topology Info: None
- Explicit DNS Server(s): 0 . 0 . 0 . 0
- Calls Route via Registrar:
- Separate Registrar: (empty)

Figure 10. SIP Line Settings continued

10. Click on SIP URI tab.
11. Click Add.
12. Incoming Group is set to 17 for example.
13. Outgoing Group is set to 17 for example.
14. Click OK.

The screenshot shows the 'SIP URI' configuration window. At the top, there are tabs for 'SIP Line', 'Transport', 'SIP URI', 'VoIP', 'T38 Fax', and 'SIP Credentials'. The 'SIP URI' tab is active. Below the tabs is a table with columns: Channel, Groups, Via, Local URI, Contact, Display Name, PAI, Credential, and Max Calls. To the right of the table are buttons for 'Add...', 'Remove', and 'Edit...'. Below the table is a 'New Channel' section with various settings:

- Via: <None>
- Local URI: Use Credentials User Name
- Contact: Use Credentials User Name
- Display Name: Use Credentials User Name
- PAI: None
- Registration: 0: <None>
- Incoming Group: 17
- Outgoing Group: 17
- Max Calls per Channel: 10

At the bottom right of the 'New Channel' section are 'OK' and 'Cancel' buttons.

Figure 11. SIP Line Settings continued

15. Click on VoIP tab.
16. Codec Selection is set to Custom.
17. Use arrows to move G.711ULAW 64K to Selected box.
18. Re-invite Supported is checked.
19. Click OK at bottom right of screen not shown here.

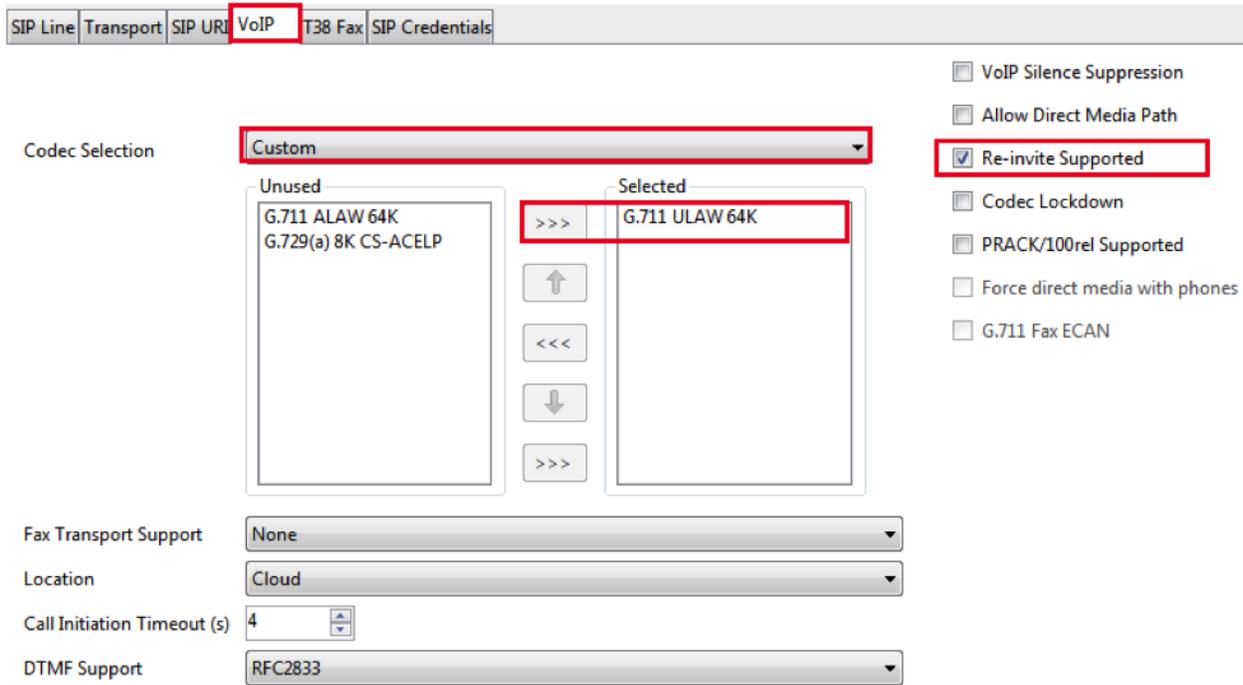


Figure 12. SIP Line Settings continued

6.2.3 Extension Settings

1. From the main menu tree, right click on Extensions, New, and SIP Extension.

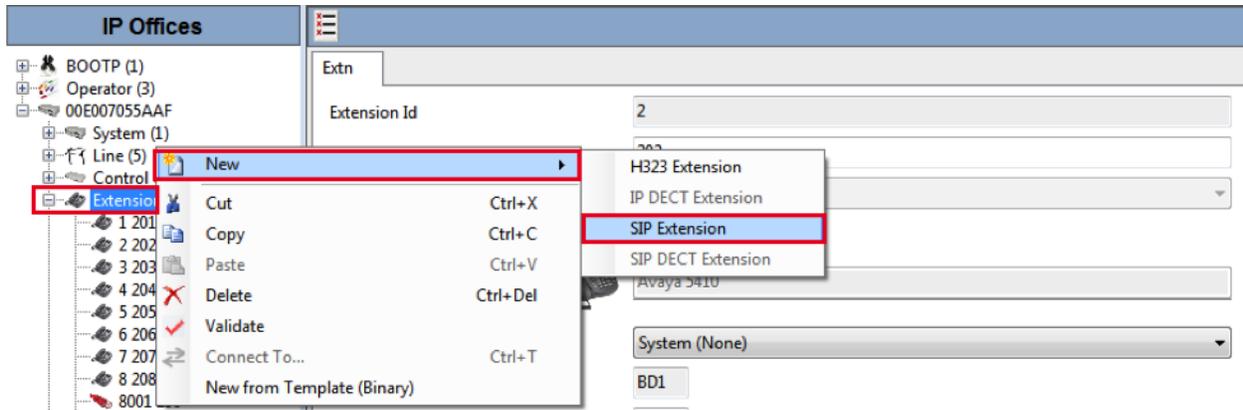


Figure 13. Extension Settings

2. Extension ID is set to 1 for example.
3. Base Extensions is set to 201 for example.
4. Module is set to BD1 for example.
5. Port is set to 1 for example.
6. Click OK at bottom right of screen not shown here.

Extn	
Extension Id	1
Base Extension	201
Caller Display Type	Off
Reset Volume After Calls	<input type="checkbox"/>
Device Type	Avaya 2410
Location	System (None)
Module	BD1
Port	1
Disable Speakerphone	<input type="checkbox"/>

Figure 14. Extension Settings continued

6.2.4 User Settings

1. From main menu tree, right click on User and New.

The screenshot shows the 'User' settings page. The left sidebar has a tree view with 'User' selected. A context menu is open over 'User', with 'New' highlighted. The main panel has tabs for 'User', 'Voicemail', 'DND', 'Short Codes', 'Source Numbers', and 'Telephony'. The 'User' tab is active, showing fields for Name (Extn202), Password, Enabled, IP Office E2, 202, and United States (US English).

Figure 15. User Settings

2. Click on User tab.
3. Name is set to Extn201 for example.
4. Full Name is set to IP Office E1 for example.
5. Extension is set to 201 for example.

User	Voicemail	DND	Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Button Programming
Name	Extn201								
Password									
Confirm Password									
Account Status	Enabled								
Full Name	IP Office E1								
Extension	201								
Locale	United States (US English)								
Priority	1								
System Phone Rights	Level 2								
Profile	Office Worker User								

Figure 16. User Settings continued

6. Click on Telephony tab.
7. Click on Call Settings tab.
8. Verify Call Waiting on is checked.
9. Verify Answer Call Waiting On Hold is checked.

User	Voicemail	DND	Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Butto																																													
<table border="1"> <thead> <tr> <th>Call Settings</th> <th>Supervisor Settings</th> <th>Multi-line Options</th> <th>Call Log</th> <th>TUI</th> </tr> </thead> <tbody> <tr> <td>Outside Call Sequence</td> <td colspan="4">Default Ring</td> </tr> <tr> <td>Inside Call Sequence</td> <td colspan="4">Default Ring</td> </tr> <tr> <td>Ringback Sequence</td> <td colspan="4">Default Ring</td> </tr> <tr> <td>No Answer Time (secs)</td> <td colspan="4">System Default (15)</td> </tr> <tr> <td>Wrap-up Time (secs)</td> <td colspan="4">2</td> </tr> <tr> <td>Transfer Return Time (secs)</td> <td colspan="4">Off</td> </tr> <tr> <td>Call Cost Mark-Up</td> <td colspan="4">100</td> </tr> <tr> <td></td> <td colspan="4"> <input checked="" type="checkbox"/> Call Waiting On <input checked="" type="checkbox"/> Answer Call Waiting On Hold <input type="checkbox"/> Busy On Held <input type="checkbox"/> Offhook Station </td> </tr> </tbody> </table>										Call Settings	Supervisor Settings	Multi-line Options	Call Log	TUI	Outside Call Sequence	Default Ring				Inside Call Sequence	Default Ring				Ringback Sequence	Default Ring				No Answer Time (secs)	System Default (15)				Wrap-up Time (secs)	2				Transfer Return Time (secs)	Off				Call Cost Mark-Up	100					<input checked="" type="checkbox"/> Call Waiting On <input checked="" type="checkbox"/> Answer Call Waiting On Hold <input type="checkbox"/> Busy On Held <input type="checkbox"/> Offhook Station			
Call Settings	Supervisor Settings	Multi-line Options	Call Log	TUI																																																		
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Figure 17. User Settings continued

10. Click on the SIP tab.
11. SIP Name is set to 8563330425 for example. This must be the full 10 digit number.
12. SIP Display Name (Alias) is set to 8563330425 for example.
13. Contact is set to 8563330425 for example. This must be the full 10 digit number.
14. Click OK at bottom right of screen not shown here.

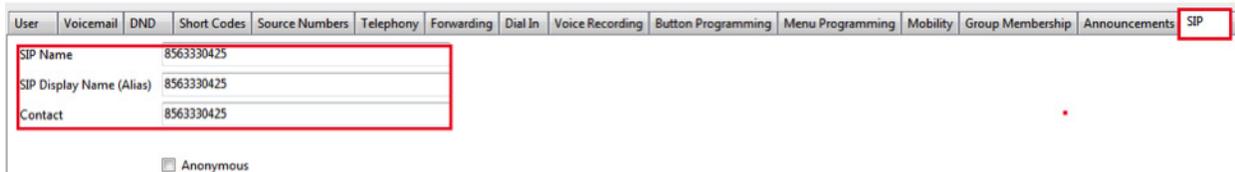


Figure 18. User Settings continued

6.2.5 Incoming Call Route

1. From the main menu tree, right click on Incoming Call Route, and New.

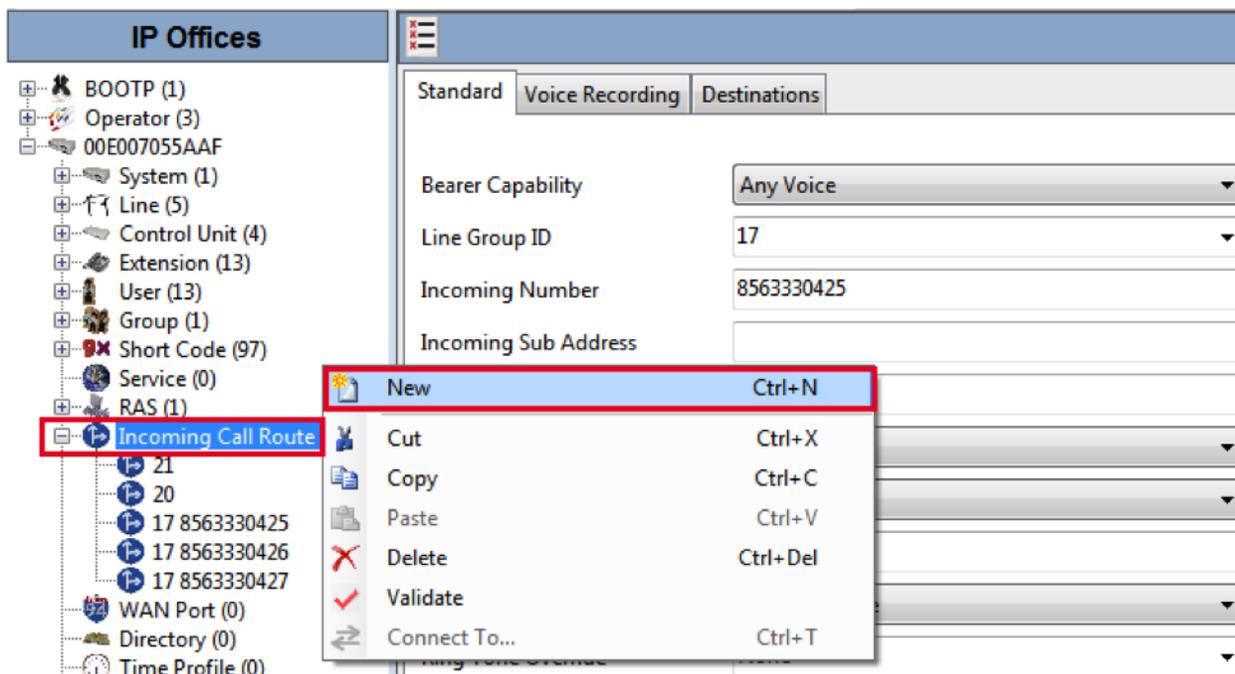


Figure 19. Incoming Call Route

2. Click on Standard tab.
3. Bearer Capability is set to Any Voice.
4. Line Group ID is set to 17 for example.
5. Incoming Number is set to 8563330425 for example.

Standard	Voice Recording	Destinations
Bearer Capability	Any Voice	
Line Group ID	17	
Incoming Number	8563330425	
Incoming Sub Address		
Incoming CLI		
Locale		
Priority	1 - Low	
Tag		
Hold Music Source	System Source	
Ring Tone Override	None	

Figure 20. Incoming Call Route continued

6. Click on Destinations tab.
7. Destination is set to 201 Extn201 for example.
8. Fallback Extension is set to 201 Extn201 for example.
9. Click OK at bottom right of screen not shown here.

Destinations
Destination
201 Extn201

Figure 21. Incoming Call Route continued

6.2.6 IP Route

1. From the main menu tree, right click on IP Route and New.

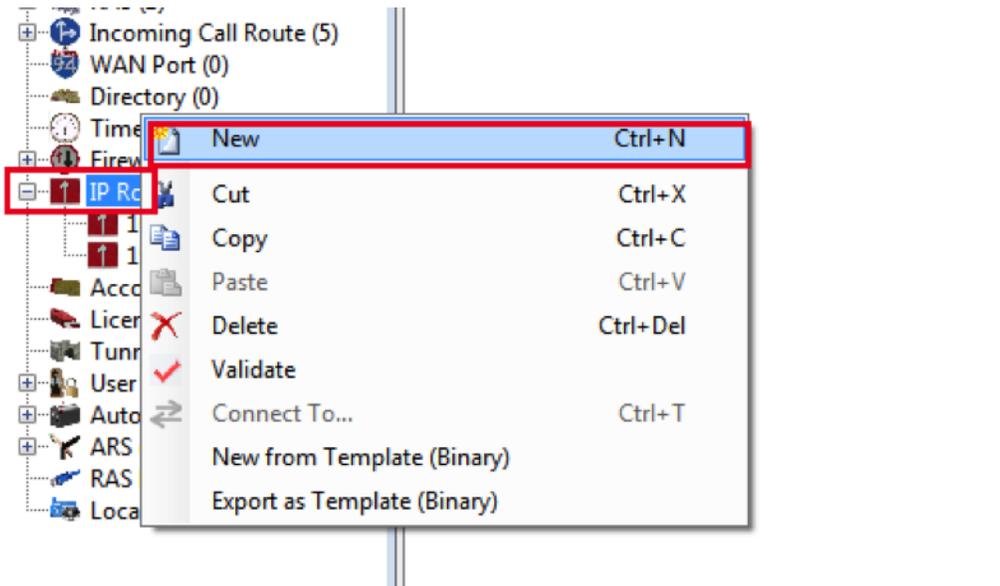


Figure 22. IP Route

2. IP Address is set to 10.64.0.0 for example.
3. IP Mask is set to 255.255.0.0 for example.
4. Gateway IP Address is set to 10.64.1.1 for example.
5. Destination is set to LAN1 for example.
6. Click OK at bottom right of screen not shown here.

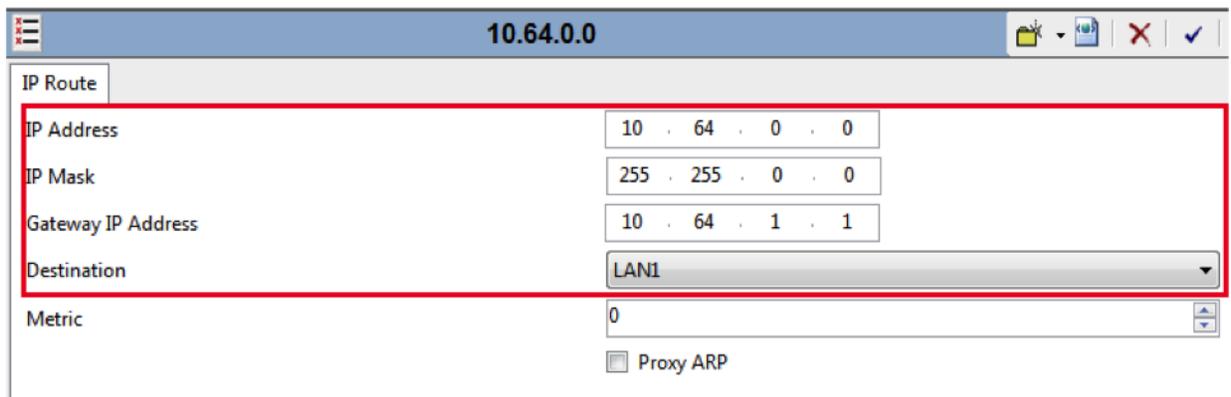


Figure 23. IP Route continued

6.2.7 Save Configuration

1. Click on File and Save configuration.

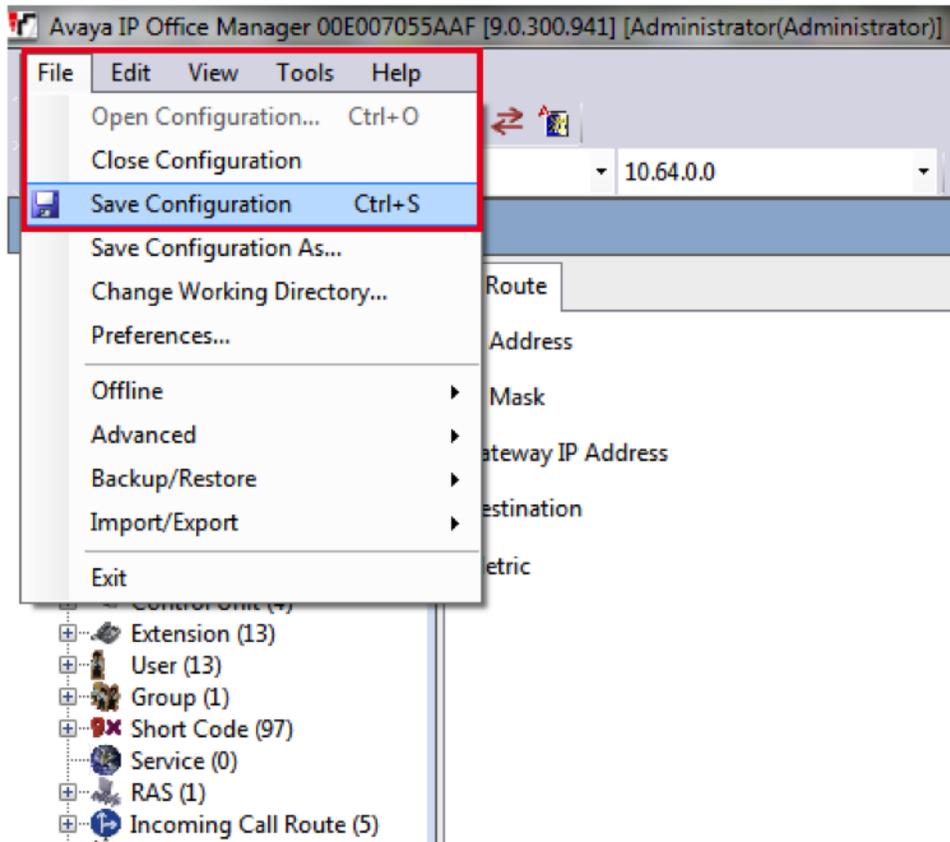


Figure 24. Save Configuration

2. Click the Immediate radial button.
3. Click OK.
4. Add the password to the Service User password field.
5. Click OK.
6. PBX will reboot.

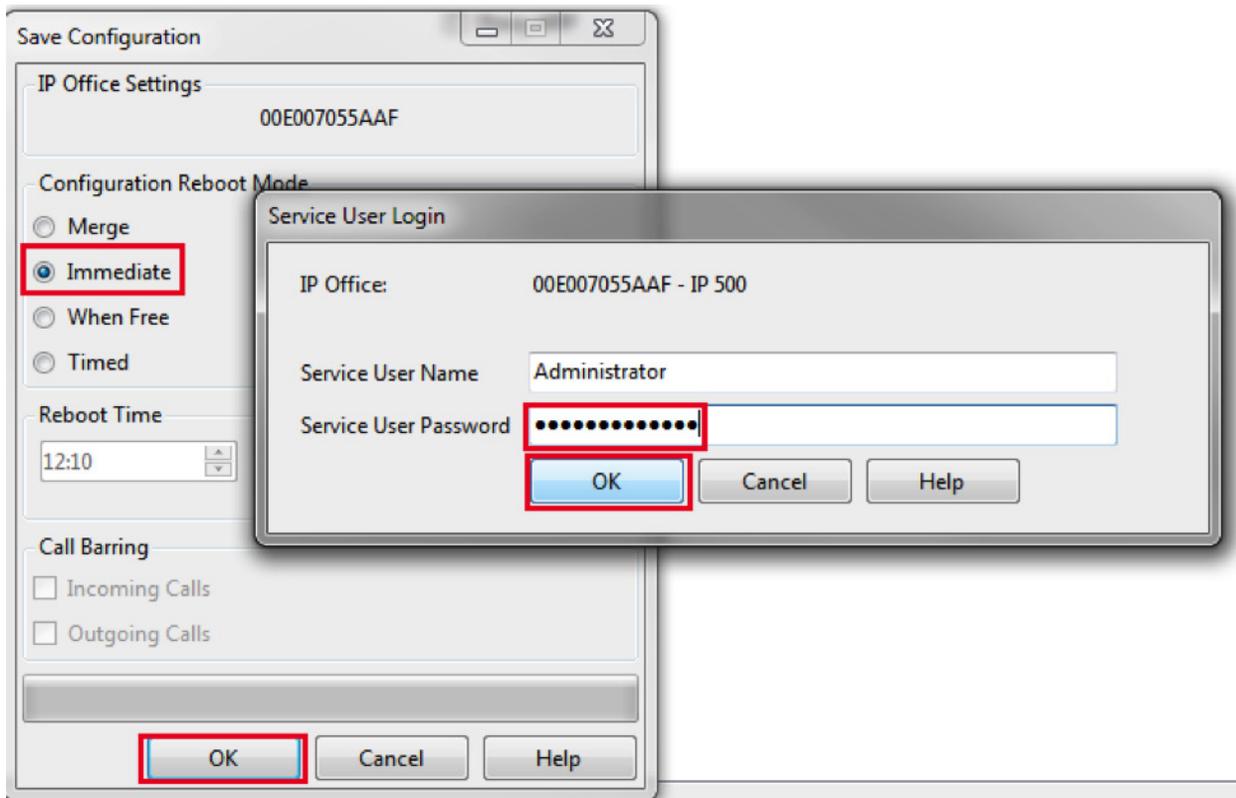


Figure 25. Save Configuration continued

7. SIP CALL TRACES

7.1 ORIGINATING CALL

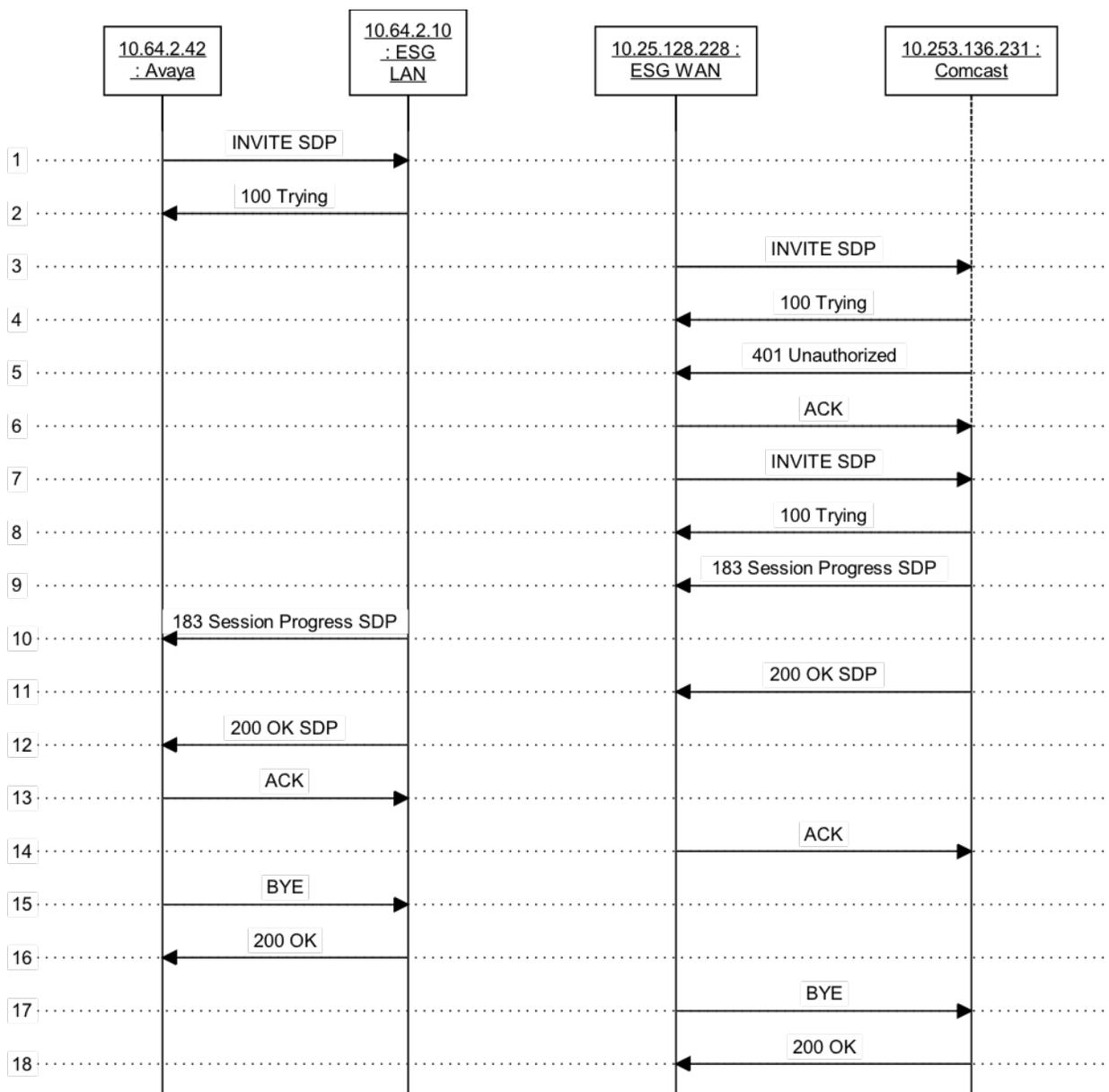


Figure 26. Originating Call

1) INVITE sip:2142425938@10.64.2.10 SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bK3e5adb7168224580ad5b198eb1bb9f2e\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>\r\n
Call-ID: a4192b4291febc157e3f654b2ceda04d\r\n
CSeq: 1197637372 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Content-Type: application/sdp\r\n
Supported: timer\r\n
Min-SE: 360\r\n
Session-Expires: 360;refresher=uac\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@10.64.2.42:5060>\r\n
Content-Length: 271\r\n
\r\n
v=0\r\n
o=UserA 3566589415 1784685689 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49152 RTP/AVP 0 18 8 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:18 G729/8000\r\n
a=fmtp:18 annexb=no\r\n
a=rtpmap:8 PCMA/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

2) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>\r\n
Call-ID: a4192b4291febc157e3f654b2ceda04d\r\n
CSeq: 1197637372 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK3e5adb7168224580ad5b198eb1bb9f2e\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

3) INVITE sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca7081e6-7cd67ed1\r\n
Diversion: <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>;reason=unconditional;counter=1;privacy=off;screen=no\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 233\r\n
\r\n
v=0\r\n
o=UserA 3566589415 1784685689 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14746 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

4) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca7081e6-7cd67ed1\r\n
CSeq: 1 INVITE\r\n
Content-Length: 0\r\n

5) SIP/2.0 401 Unauthorized\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1067047767-1426711435800\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca7081e6-7cd67ed1\r\n
CSeq: 1 INVITE\r\n
WWW-Authenticate: DIGEST qop="auth",nonce="BroadWorksXi7f75hcoTt68otiBW",realm="BroadWorks",algorithm=MD5\r\n
Content-Length: 0\r\n

6) ACK sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1067047767-1426711435800\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca7081e6-7cd67ed1\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Length: 0\r\n

7) INVITE sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca70821d-4897180e\r\n
Diversion: <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>;reason=unconditional;counter=1;privacy=off;screen=no\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7f75hcoTt68otiBW",uri="sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060",response="832729e59290c85219f826824bd667a9",algorithm=MD5,cnonce="ca708"
Content-Type: application/sdp\r\n
Content-Length: 233\r\n
\r\n
v=0\r\n
o=UserA 3566589415 1784685689 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14746 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

8) SIP/2.0 100 Trying\r\n

From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n

To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n

Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n

Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca70821d-4897180e\r\n

CSeq: 2 INVITE\r\n

Content-Length: 0\r\n

9) SIP/2.0 183 Session Progress\r\n

From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n

To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1022017126-1426711439560\r\n

Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n

Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca70821d-4897180e\r\n

CSeq: 2 INVITE\r\n

Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n

Contact: <sip:10.253.136.231:5060;transport=udp>\r\n

Session: Media\r\n

P-Asserted-Identity: <sip:2142425938@10.254.24.6;user=phone>\r\n

Privacy: none\r\n

Content-Type: application/sdp\r\n

Content-Length: 238\r\n

\r\n

v=0\r\n

o=BroadWorks 276222 1784685690 IN IP4 10.253.136.231\r\n

s=-\r\n

c=IN IP4 10.253.136.231\r\n

t=0 0\r\n

m=audio 16572 RTP/AVP 0 101\r\n

a=rtpmap:0 PCMU/8000\r\n

a=rtpmap:101 telephone-event/8000\r\n

a=fmtp:101 0-15\r\n

a=silenceSupp:off - - - \r\n

a=sendrecv\r\n

10) SIP/2.0 183 Session Progress\r\n
From: "Extn201"<sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c236d28-a1980e4-13c4-33d316-204b0280-33d316\r\n
Call-ID: a4192b4291febc157e3f654b2ceda04d\r\n
CSeq: 1197637372 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK3e5adb7168224580ad5b198eb1bb9f2e\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 276222 1784685690 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14748 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

11) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1022017126-1426711439560\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d312-ca70821d-4897180e\r\n
CSeq: 2 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
P-Asserted-Identity: <sip:2142425938@10.254.24.6;user=phone>\r\n
Privacy: none\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Accept: application/media_control+xml,application/sdp,application/x-broadworks-call-center+xml\r\n
Content-Type: application/sdp\r\n
Content-Length: 238\r\n
\r\n
v=0\r\n
o=BroadWorks 276222 1784685690 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16572 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n

12) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c236d28-a1980e4-13c4-33d316-204b0280-33d316\r\n
Call-ID: a4192b4291febc157e3f654b2ceda04d\r\n
CSeq: 1197637372 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK3e5adb7168224580ad5b198eb1bb9f2e\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 276222 1784685690 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14748 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

13) ACK sip:2142425938@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bK20c01d80d8375eb271d8b457137c1932\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c236d28-a1980e4-13c4-33d316-204b0280-33d316\r\n
Call-ID: a4192b4291febc157e3f654b2ceda04d\r\n
CSeq: 1197637372 ACK\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

14) ACK sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1022017126-1426711439560\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d318-ca70971b-2bddef65\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7f75hcoTt68otiBW",uri="sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060",response="832729e59290c85219f826824bd667a9",algorithm=MD5,cnonce="ca708"
Content-Length: 0\r\n

15) BYE sip:2142425938@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bKcf9fcb907490bc679cb55dc3e990\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c236d28-a1980e4-13c4-33d316-204b0280-33d316\r\n
Call-ID: a4192b4291fbc157e3f654b2ceda04d\r\n
CSeq: 1197637373 BYE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

16) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=a5b83aca28ff935f\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c236d28-a1980e4-13c4-33d316-204b0280-33d316\r\n
Call-ID: a4192b4291fbc157e3f654b2ceda04d\r\n
CSeq: 1197637373 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKcf9fcb907490bc679cb55dc3e990\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

17) BYE sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1022017126-1426711439560\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 3 BYE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d31a-ca70a077-173206c8\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7f75hcoTt68otiBW",uri="sip:10.253.136.231:5060;transport=udp",response="6de58a993329aac0b3c32bed1bfd249a",algorithm=MD5,cnonce="ca70a077",qop=aut
Content-Length: 0\r\n

18) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c234ca8-a1980e4-13c4-33d312-73a34697-33d312\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1022017126-1426711439560\r\n
Call-ID: 4c3331a8-a1980e4-13c4-33d312-26691efc-33d312@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-33d31a-ca70a077-173206c8\r\n
CSeq: 3 BYE\r\n
Content-Length: 0\r\n

7.2 TERMINATING CALL

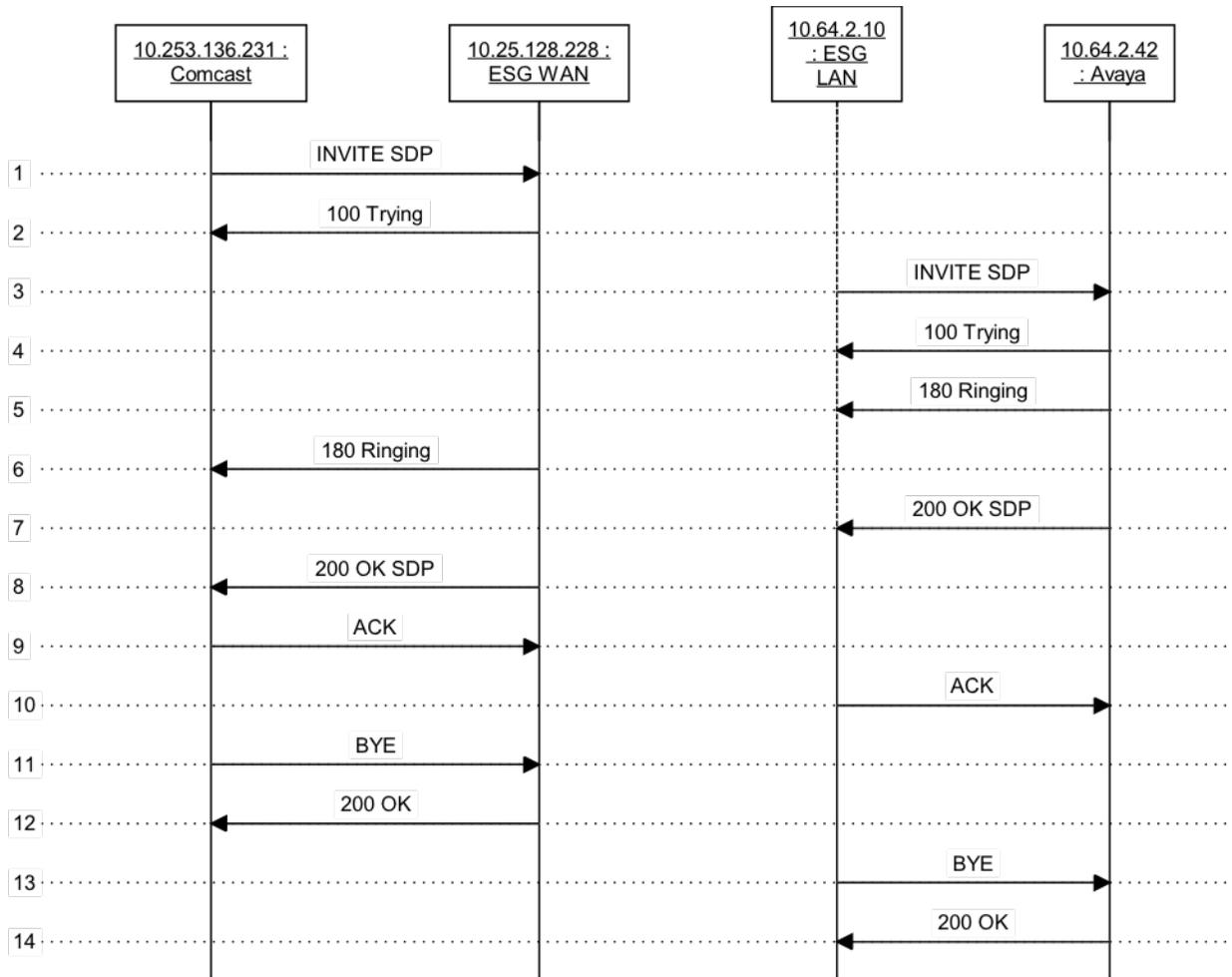


Figure 27. Terminating Call

1) INVITE sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKq3gu5v158jfmnpaf6rpsav9nu0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941644 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY,UPDATE\r\n
Accept: application/media_control+xml,application/sdp,multipart/mixed\r\n
Max-Forwards: 69\r\n
Content-Type: application/sdp\r\n
Content-Length: 255\r\n
\r\n
v=0\r\n
o=BroadWorks 209694 1 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 15872 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000/1\r\n
a=fmtp:96 0-15\r\n
a=maxptime:30\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n
a=ptime:20\r\n

2) SIP/2.0 100 Trying\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941644 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKq3gu5v158jfmnpaf6rpsav9nu0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

3) INVITE sip:8563330425@10.64.2.42:5060 SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
To: <sip:8563330425@10.64.2.42:5060>\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102b8-bf72a255-bf1c099\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425938@10.64.2.42>\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 245\r\n
\r\n
v=0\r\n
o=BroadWorks 209694 1 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 13928 RTP/AVP 0 96\r\n
a=maxptime:30\r\n
a=silenceSupp:off - - - -\r\n
a=sendrec\r\n
a=ptime:20\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n
\r\n
4) SIP/2.0 100 Trying\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102b8-bf72a255-bf1c099\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer,100rel\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d7fa2118703a4150\r\n
Content-Length: 0\r\n

5) SIP/2.0 180 Ringing\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102b8-bf72a255-bf1c099\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Contact: "8563330425" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer,100rel\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d7fa2118703a4150\r\n
Content-Length: 0\r\n

6) SIP/2.0 180 Ringing\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1eac70-a1980e4-13c4-3102b8-33b2ef51-3102b8\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941644 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKq3gu5v158jfmnpaf6rpsav9nu0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

7) SIP/2.0 200 OK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102b8-bf72a255-bf1c099\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Contact: "8563330425" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer,100rel\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d7fa2118703a4150\r\n
Content-Type: application/sdp\r\n
Content-Length: 197\r\n
\r\n
v=0\r\n
o=UserA 2592793386 3973177631 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49152 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

8) SIP/2.0 200 OK\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1eac70-a1980e4-13c4-3102b8-33b2ef51-3102b8\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941644 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKq3gu5v158jfmnpaf6rpsav9nu0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 203\r\n
\r\n
v=0\r\n
o=UserA 2592793386 3973177631 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 13930 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

9) ACK sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bK7gn1fbcqsnd9nepcrr0n3j1d94-h8kp76j5\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1eac70-a1980e4-13c4-3102b8-33b2ef51-3102b8\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941644 ACK\r\n
Contact: <sip:10.253.136.231:5060>\r\n
Max-Forwards: 69\r\n
Content-Length: 0\r\n

10) ACK sip:8563330425@10.64.2.42:5060;transport=udp SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d7fa2118703a4150\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102bf-bf72bd96-5366ae68\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425938@10.64.2.42>\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Content-Length: 0\r\n

11) BYE sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bK7gn1fbcqsnd9nepcrr0n3j1d94-h8kpn6n5\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1eac70-a1980e4-13c4-3102b8-33b2ef51-3102b8\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941645 BYE\r\n
Max-Forwards: 69\r\n
Content-Length: 0\r\n

12) SIP/2.0 200 OK\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=713143430-1426527025558-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1eac70-a1980e4-13c4-3102b8-33b2ef51-3102b8\r\n
Call-ID: BW1730255581603152069316183@10.254.24.6\r\n
CSeq: 298941645 BYE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bK7gn1fbcqsnd9nepcrr0n3j1d94-h8kpn6n5\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

13) BYE sip:8563330425@10.64.2.42:5060;transport=udp SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d7fa2118703a4150\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 2 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102c8-bf72de49-5a63627f\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425938@10.64.2.42>\r\n
Content-Length: 0\r\n

14) SIP/2.0 200 OK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3102c8-bf72de49-5a63627f\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c1ea248-a1980e4-13c4-3102b8-7bcc4fc-3102b8\r\n
Call-ID: 4c2ee328-a1980e4-13c4-3102b8-d3ab8bc-3102b8@10.64.2.10\r\n
CSeq: 2 BYE\r\n
Supported: timer,100rel\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d7fa2118703a4150\r\n
Content-Length: 0\r\n

7.3 ANONYMOUS CALL

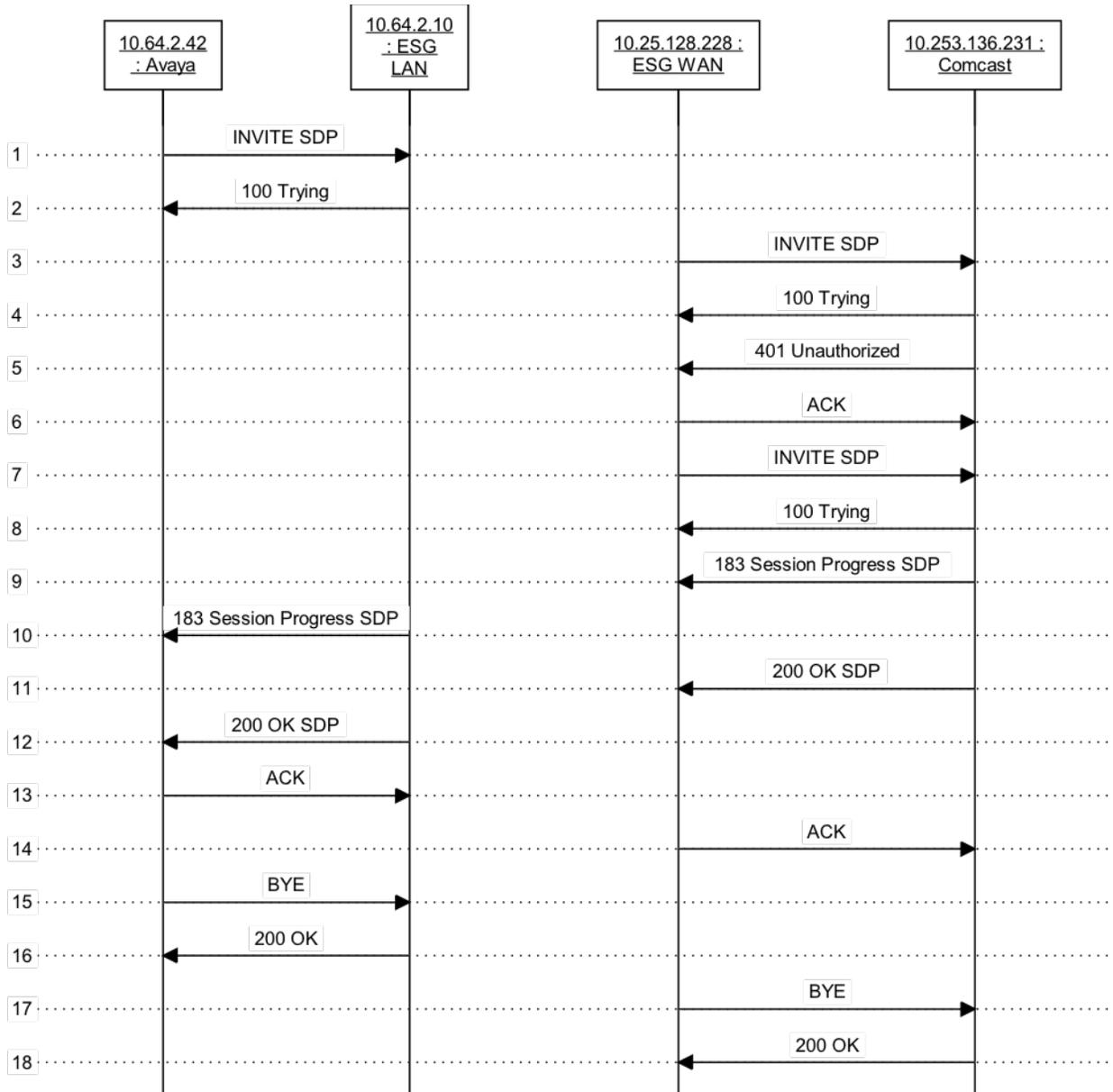


Figure 28. Anonymous Call

1) INVITE sip:2142425938@10.64.2.10 SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bK9ad476f3518fe23529bf437af6788596\r\n
From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675640 INVITE\r\n
Contact: <sip:anonymous@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Content-Type: application/sdp\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@10.64.2.42:5060>\r\n
Content-Length: 270\r\n
\r\n
v=0\r\n
o=UserA 681878179 2275628359 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49152 RTP/AVP 0 18 8 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:18 G729/8000\r\n
a=fmtp:18 annexb=no\r\n
a=rtpmap:8 PCMA/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

2) SIP/2.0 100 Trying\r\n
From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675640 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK9ad476f3518fe23529bf437af6788596\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

3) INVITE sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf34-5239e872\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:anonymous;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 232\r\n
\r\n
v=0\r\n
o=UserA 681878179 2275628359 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14184 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

4) SIP/2.0 100 Trying\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf34-5239e872\r\n
CSeq: 1 INVITE\r\n
Content-Length: 0\r\n

5) SIP/2.0 401 Unauthorized\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1252621066-1426542241476\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf34-5239e872\r\n
CSeq: 1 INVITE\r\n
WWW-Authenticate: DIGEST qop="auth",nonce="BroadWorksXi7cef26cTm1j5b4BW",realm="BroadWorks",algorithm=MD5\r\n
Content-Length: 0\r\n

6) ACK sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP SIP/2.0\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1252621066-1426542241476\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf34-5239e872\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:anonymous;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Length: 0\r\n

7) INVITE sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf6a-7d4ee13e\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:anonymous;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7cef26cTm1j5b4B W",uri="sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060",response="9c8c39b8186c2063c644d29a95806814",algorithm=MD5,cnonce="c05ac\r\n
Content-Type: application/sdp\r\n
Content-Length: 232\r\n
\r\n
v=0\r\n
o=UserA 681878179 2275628359 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14184 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

8) SIP/2.0 100 Trying\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf6a-7d4ee13e\r\n
CSeq: 2 INVITE\r\n
Content-Length: 0\r\n

9) SIP/2.0 183 Session Progress\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1243063492-1426542244637\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf6a-7d4ee13e\r\n
CSeq: 2 INVITE\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Session: Media\r\n
Content-Type: application/sdp\r\n
Content-Length: 238\r\n
\r\n
v=0\r\n
o=BroadWorks 212100 2275628360 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16048 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n

10) SIP/2.0 183 Session Progress\r\n
From: "Anonymous"<sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c22f348-a1980e4-13c4-313e2b-406e047-313e2b\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675640 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK9ad476f3518fe23529bf437af6788596\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 212100 2275628360 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14186 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

11) SIP/2.0 200 OK\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1243063492-1426542244637\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e28-c05acf6a-7d4ee13e\r\n
CSeq: 2 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Accept: application/media_control+xml,application/sdp\r\n
Content-Type: application/sdp\r\n
Content-Length: 238\r\n
\r\n
v=0\r\n
o=BroadWorks 212100 2275628360 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16048 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n

12) SIP/2.0 200 OK\r\n
From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c22f348-a1980e4-13c4-313e2b-406e047-313e2b\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675640 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK9ad476f3518fe23529bf437af6788596\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 212100 2275628360 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14186 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

13) ACK sip:2142425938@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bK00f89a253ceebc5226e73ee91fee68a3\r\n
From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c22f348-a1980e4-13c4-313e2b-406e047-313e2b\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675640 ACK\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@10.64.2.42:5060>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

14) ACK sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1243063492-1426542244637\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e2e-c05ae78a-295506e1\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:anonymous;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7cef26cTm1j5b4B W",uri="sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060",response="9c8c39b8186c2063c644d29a95806814",algorithm=MD5,cnonce="c05ac"
Content-Length: 0\r\n

15) BYE sip:2142425938@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bK7e999bc15b7663c81b14ffbf60b1106d\r\n
From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c22f348-a1980e4-13c4-313e2b-406e047-313e2b\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675641 BYE\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@10.64.2.42:5060>\r\n
Contact: <sip:anonymous@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

16) SIP/2.0 200 OK\r\n
From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3e8bc2b3730c746d\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c22f348-a1980e4-13c4-313e2b-406e047-313e2b\r\n
Call-ID: f2b1357c3f761d19785bd992db79e625\r\n
CSeq: 1970675641 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK7e999bc15b7663c81b14ffbf60b1106d\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

17) BYE sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1243063492-1426542244637\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 3 BYE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e30-c05aebd2-1e58db35\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Privacy: id\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7cef26cTm1j5b4BW",uri="sip:10.253.136.231:5060;transport=udp",response="3ac395a1b446d0a2782e1a160b5a1b26",algorithm=MD5,cnonce="c05aebd2",qop=aut
Content-Length: 0\r\n

18) SIP/2.0 200 OK\r\n
From: Private<sip:anonymous@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c22ed30-a1980e4-13c4-313e28-99f35f-313e28\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1243063492-1426542244637\r\n
Call-ID: 4c3049e8-a1980e4-13c4-313e28-72519473-313e28@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313e30-c05aebd2-1e58db35\r\n
CSeq: 3 BYE\r\n
Content-Length: 0\r\n

7.4 CALL FORWARD

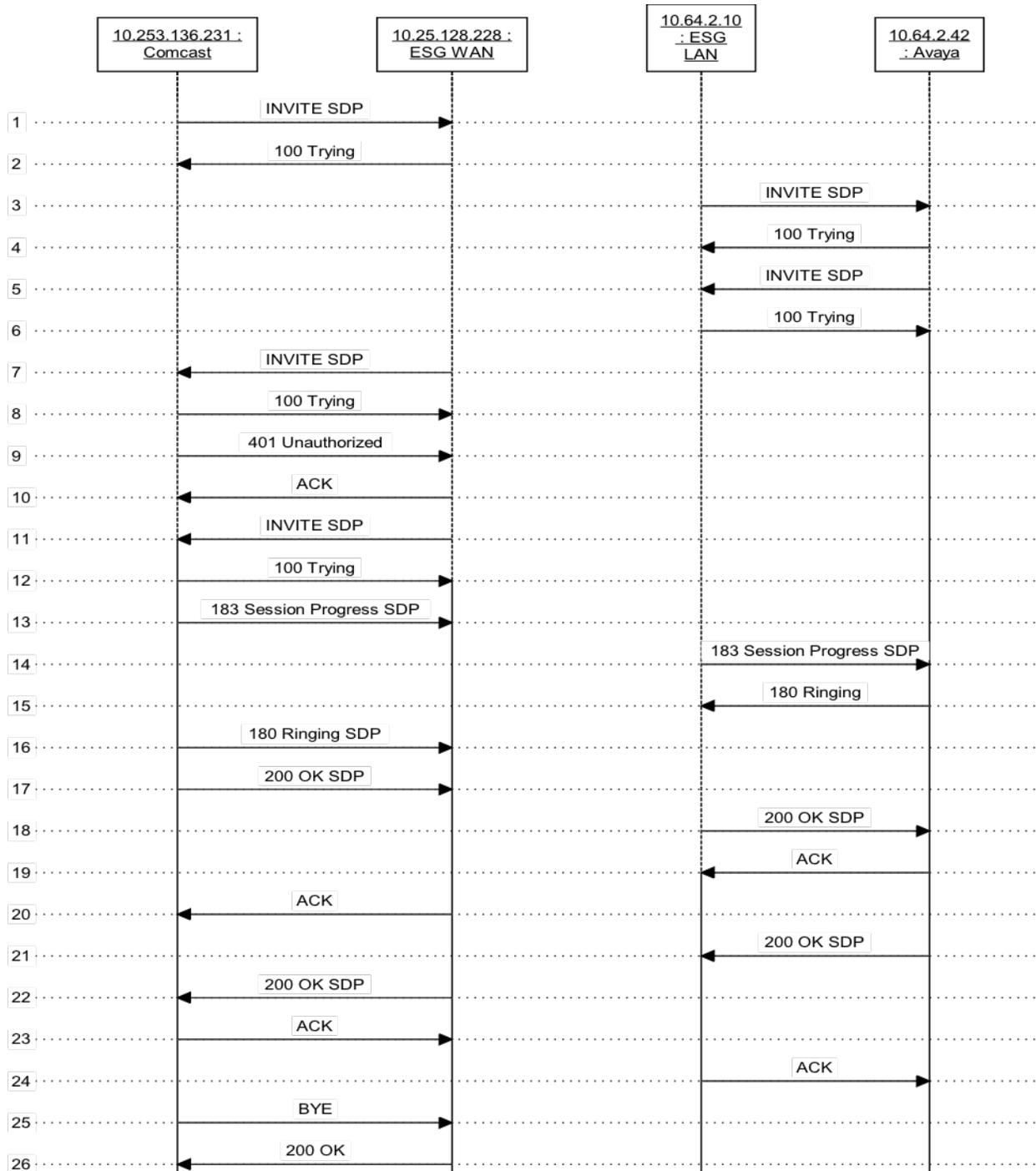


Figure 29. Call Forward

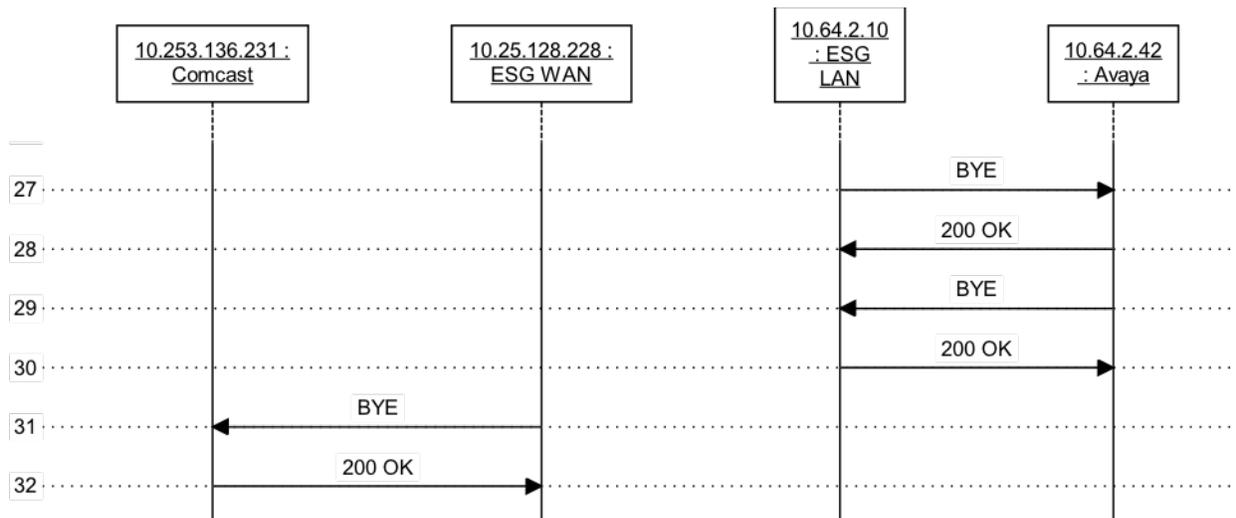


Figure 30. Call Forward continued

```

1) INVITE sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKlbjem1m60je6nsiglbq8qs9nu0\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087712 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY,UPDATE\r\n
Accept: application/media_control+xml,application/sdp,multipart/mixed\r\n
Max-Forwards: 69\r\n
Content-Type: application/sdp\r\n
Content-Length: 255\r\n
\r\n
v=0\r\n
o=BroadWorks 210108 1 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 15936 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000/1\r\n
a=fmtp:96 0-15\r\n
a=maxptime:30\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n
a=ptime:20\r\n

```

2) SIP/2.0 100 Trying\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087712 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKljbem1m60je6nsiglbq8qs9nu0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

3) INVITE sip:8563330425@10.64.2.42:5060 SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
To: <sip:8563330425@10.64.2.42:5060>\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bad-bf959bfb-729c6edf\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425994@10.64.2.42>\r\n
Contact: <sip:2142425994@10.64.2.10:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 245\r\n
\r\n
v=0\r\n
o=BroadWorks 210108 1 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14020 RTP/AVP 0 96\r\n
a=maxptime:30\r\n
a=silenceSupp:off - - - -\r\n
a=sendrec\r\n
a=ptime:20\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

4) SIP/2.0 100 Trying\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bad-bf959bfb-729c6edf\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=f4871951722c0286\r\n
Content-Length: 0\r\n

5) INVITE sip:2142425938@10.64.2.10 SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bKb8447f00a4635598757a1e2de697caa5\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845798 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Content-Type: application/sdp\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@10.64.2.42:5060>\r\n
Content-Length: 267\r\n
\r\n
v=0\r\n
o=UserA 2853898512 141320842 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49152 RTP/AVP 0 18 8 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:18 G729/8000\r\n
a=fmtp:18 annexb=no\r\n
a=rtpmap:8 PCMA/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

6) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845798 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKb8447f00a4635598757a1e2de697caa5\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

7) INVITE sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c1a-3ade1818\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 229\r\n
\r\n
v=0\r\n
o=UserA 2853898512 141320842 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14022 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

8) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c1a-3ade1818\r\n
CSeq: 1 INVITE\r\n
Content-Length: 0\r\n

9) SIP/2.0 401 Unauthorized\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1269658291-1426529317787\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c1a-3ade1818\r\n
CSeq: 1 INVITE\r\n
WWW-Authenticate: DIGEST qop="auth",nonce="BroadWorksXi7c6q26zTzd64pbBW",realm="BroadWorks",algorithm=MD5\r\n
Content-Length: 0\r\n

10) ACK sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1269658291-1426529317787\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c1a-3ade1818\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Length: 0\r\n

11) INVITE sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c50-10319b41\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7c6q26zTzd64pbBW",uri="sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060",response="e098fc35acb94d041fb802fade0ad973",algorithm=MD5,cnonce="bf959"
Content-Type: application/sdp\r\n
Content-Length: 229\r\n
\r\n
v=0\r\n
o=UserA 2853898512 141320842 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14022 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

12) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c50-10319b41\r\n
CSeq: 2 INVITE\r\n
Content-Length: 0\r\n

13) SIP/2.0 183 Session Progress\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1312015098-1426529321768\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c50-10319b41\r\n
CSeq: 2 INVITE\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Session: Media\r\n
Content-Type: application/sdp\r\n
Content-Length: 234\r\n
\r\n
v=0\r\n
o=BroadWorks 210110 141320843 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 15938 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n

14) SIP/2.0 183 Session Progress\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c1ff170-a1980e4-13c4-310bb1-2571a5c9-310bb1\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845798 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKb8447f00a4635598757a1e2de697caa5\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 226\r\n
\r\n
v=0\r\n
o=BroadWorks 210110 141320843 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14024 RTP/AVP 0 96\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

15) SIP/2.0 180 Ringing\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bad-bf959bfb-729c6edf\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=f4871951722c0286\r\n
Content-Length: 0\r\n

16) SIP/2.0 180 Ringing\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1fdf28-a1980e4-13c4-310bb1-557887af-310bb1\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087712 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKljbem1m60je6nsiglbq8qs9nu0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

17) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1312015098-1426529321768\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bad-bf959c50-10319b41\r\n
CSeq: 2 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Accept: application/media_control+xml,application/sdp\r\n
Content-Type: application/sdp\r\n
Content-Length: 234\r\n
\r\n
v=0\r\n
o=BroadWorks 210110 141320843 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 15938 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n

18) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c1ff170-a1980e4-13c4-310bb1-2571a5c9-310bb1\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845798 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKb8447f00a4635598757a1e2de697caa5\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 226\r\n
\r\n
v=0\r\n
o=BroadWorks 210110 141320843 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14024 RTP/AVP 0 96\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

19) ACK sip:2142425938@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bKb54116c19ead38dd135ba51d6f2e6869\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c1ff170-a1980e4-13c4-310bb1-2571a5c9-310bb1\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845798 ACK\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

20) ACK sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1312015098-1426529321768\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bb2-bf95af6a-3d35199\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7c6q26zTzd64pbBW",uri="sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060",response="e098fc35acb94d041fb802fade0ad973",algorithm=MD5,cnonce="bf959\r\n
Content-Length: 0\r\n

21) SIP/2.0 200 OK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bad-bf959bfb-729c6edf\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=f4871951722c0286\r\n
Content-Type: application/sdp\r\n
Content-Length: 196\r\n
\r\n
v=0\r\n
o=UserA 3008422218 181669217 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49154 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

22) SIP/2.0 200 OK\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1fdf28-a1980e4-13c4-310bb1-557887af-310bb1\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087712 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKlBjem1m60je6nsiglbq8qs9nu0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 202\r\n
\r\n
v=0\r\n
o=UserA 3008422218 181669217 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14026 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

23) ACK sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKaoqvI0tlmcfjj2jcurd5veie54-hgojfgi5\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1fdf28-a1980e4-13c4-310bb1-557887af-310bb1\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087712 ACK\r\n
Contact: <sip:10.253.136.231:5060>\r\n
Max-Forwards: 69\r\n
Content-Length: 0\r\n

24) ACK sip:8563330425@10.64.2.42:5060;transport=udp SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=f4871951722c0286\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bb2-bf95afae-1a0f9b77\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425994@10.64.2.42>\r\n
Contact: <sip:2142425994@10.64.2.10:5060;transport=UDP>\r\n
Content-Length: 0\r\n

25) BYE sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKaoqvl0tlmcfjj2jcurd5veie54-hgojvgm5\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1fdf28-a1980e4-13c4-310bb1-557887af-310bb1\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087713 BYE\r\n
Max-Forwards: 69\r\n
Content-Length: 0\r\n

26) SIP/2.0 200 OK\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.254.24.6;user=phone>;tag=465555481-1426529317695-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c1fdf28-a1980e4-13c4-310bb1-557887af-310bb1\r\n
Call-ID: BW180837695160315-753398196@10.254.24.6\r\n
CSeq: 300087713 BYE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKaoqvl0tlmcfjj2jcurd5veie54-hgojvgm5\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

27) BYE sip:8563330425@10.64.2.42:5060;transport=udp SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=f4871951722c0286\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 2 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bb5-bf95be2b-ebf1712\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425994@10.64.2.42>\r\n
Content-Length: 0\r\n

28) SIP/2.0 200 OK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-310bb5-bf95be2b-ebf1712\r\n
From: "TEKVIZION PVS I" <sip:2142425994@10.64.2.10:5060;transport=UDP>;tag=4c1fdd20-a1980e4-13c4-310bad-5393db5e-310bad\r\n
Call-ID: 4c2f8508-a1980e4-13c4-310bad-355062d6-310bad@10.64.2.10\r\n
CSeq: 2 BYE\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=f4871951722c0286\r\n
Content-Length: 0\r\n

29) BYE sip:2142425938@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bK2571ff2ce9d0c509a06687f86324da3a\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c1ff170-a1980e4-13c4-310bb1-2571a5c9-310bb1\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845799 BYE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

30) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=fe804dacb0ec21a8\r\n
To: <sip:2142425938@10.64.2.10>;tag=4c1ff170-a1980e4-13c4-310bb1-2571a5c9-310bb1\r\n
Call-ID: bba2fcc1e401eb6c49aa2b0fd0e8bfdc\r\n
CSeq: 2090845799 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bK2571ff2ce9d0c509a06687f86324da3a\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

31) BYE sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1312015098-1426529321768\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 3 BYE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bb5-bf95be3a-46fd7ee2\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7c6q26zTzd64pbB
W",uri="sip:10.253.136.231:5060;transport=udp",response="87d95158cf61ffe45da14f292f0eeb9e",algorithm=MD5,cnonce
="bf95be3a",qop=aut
Content-Length: 0\r\n

32) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c1feb58-a1980e4-13c4-310bad-34a6b894-310bad\r\n
To: <sip:2142425938@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1312015098-1426529321768\r\n
Call-ID: 4c2f8968-a1980e4-13c4-310bad-4c225c25-310bad@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-310bb5-bf95be3a-46fd7ee2\r\n
CSeq: 3 BYE\r\n
Content-Length: 0\r\n

7.5 SEMI-ATTENDED

There are three actors in a given transfer event:

- Transferee: the party being transferred to the Transfer Target.
- Transferor: the party initiating the transfer.
- Transfer Target: the new party being introduced into a call with the Transferee.

Call Transfer designates the following scenario, regardless of what party performs the feature and how the feature is executed signaling wise.

- Semi-Attended: Party A calls Party B. During the conversation one of the parties, Transferor, wishes to transfer the call. Transferee is put on hold. Transferor initiates the transfer. The Transfer Target's phone and the Transferor's phone exchange messaging. The Transferor hangs up before the Transfer Target answers. The transfer is complete with the Transferor disconnects.



Figure 31. Semi-Attended Transfer

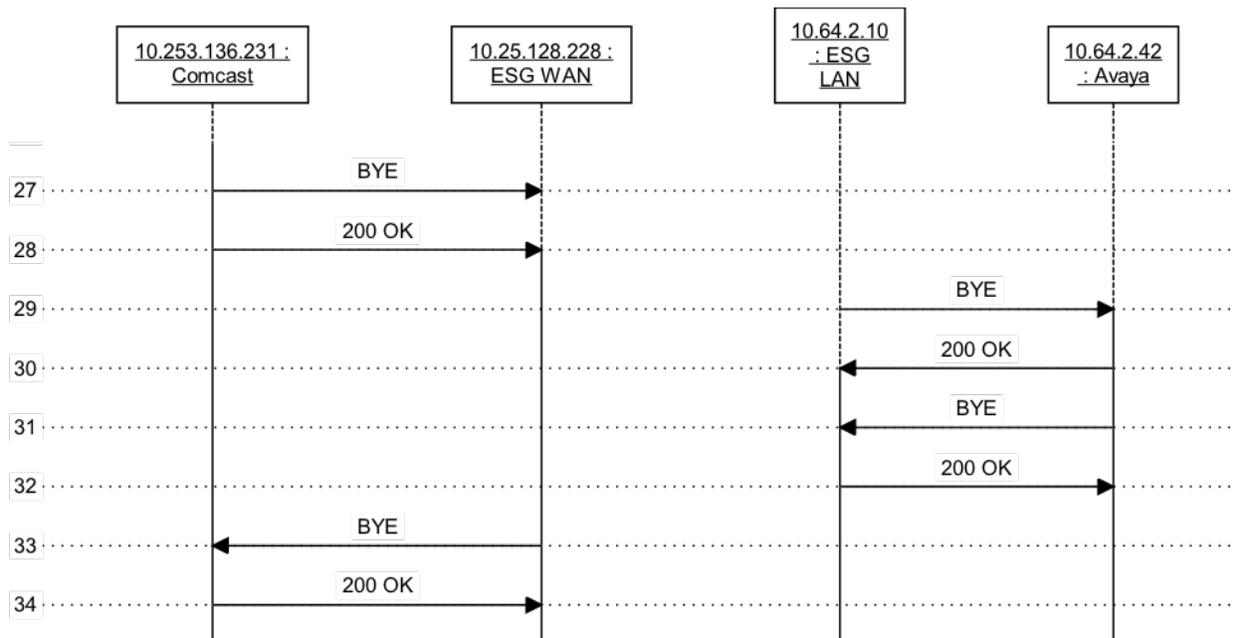


Figure 32. Semi-Attended Transfer continued

```

1) INVITE sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhrgholsd5vqhk6v6f43pstdod0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745524 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY,UPDATE\r\n
Accept: application/media_control+xml,application/sdp,multipart/mixed\r\n
Max-Forwards: 69\r\n
Content-Type: application/sdp\r\n
Content-Length: 255\r\n
\r\n
v=0\r\n
o=BroadWorks 211814 1 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16020 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000/1\r\n
a=fmtp:96 0-15\r\n
a=maxptime:30\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=ptime:20\r\n

```

2) SIP/2.0 100 Trying\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745524 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhrghsd5vqhk6v6f43pstodod0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

3) INVITE sip:8563330425@10.64.2.42:5060 SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
To: <sip:8563330425@10.64.2.42:5060>\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3137e0-c0424596-1165a4de\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425938@10.64.2.42>\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 245\r\n
\r\n
v=0\r\n
o=BroadWorks 211814 1 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14134 RTP/AVP 0 96\r\n
a=maxptime:30\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n
a=ptime:20\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

4) SIP/2.0 100 Trying\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3137e0-c0424596-1165a4de\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d9a24ca2518094d8\r\n
Content-Length: 0\r\n

5) SIP/2.0 180 Ringing\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3137e0-c0424596-1165a4de\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d9a24ca2518094d8\r\n
Content-Length: 0\r\n

6) SIP/2.0 180 Ringing\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c224290-a1980e4-13c4-3137e0-1f12ff27-3137e0\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745524 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhrghsd5vqhk6v6f43pstodod0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

7) SIP/2.0 200 OK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3137e0-c0424596-1165a4de\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 1 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d9a24ca2518094d8\r\n
Content-Type: application/sdp\r\n
Content-Length: 196\r\n
\r\n
v=0\r\n
o=UserA 464527153 1139677600 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49152 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

8) SIP/2.0 200 OK\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c224290-a1980e4-13c4-3137e0-1f12ff27-3137e0\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745524 INVITE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhrgholsd5vqhk6v6f43pstodod0\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 202\r\n
\r\n
v=0\r\n
o=UserA 464527153 1139677600 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14136 RTP/AVP 0 96\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:96 telephone-event/8000\r\n
a=fmtp:96 0-15\r\n

9) ACK sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhdjs606im2eq97c62s7p7bea6-i8es4qh5\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c224290-a1980e4-13c4-3137e0-1f12ff27-3137e0\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745524 ACK\r\n
Contact: <sip:10.253.136.231:5060>\r\n
Max-Forwards: 69\r\n
Content-Length: 0\r\n

10) ACK sip:8563330425@10.64.2.42:5060;transport=udp SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d9a24ca2518094d8\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-3137e3-c042521b-23998381\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425938@10.64.2.42>\r\n
Contact: <sip:2142425938@10.64.2.10:5060;transport=UDP>\r\n
Content-Length: 0\r\n

11) INVITE sip:2142425994@10.64.2.10 SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bKc46297cfe46216441b0cb0f27f225935\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436784 INVITE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Content-Type: application/sdp\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@10.64.2.42:5060>\r\n
Content-Length: 271\r\n
\r\n
v=0\r\n
o=UserA 1589254832 4177140326 IN IP4 10.64.2.42\r\n
s=Session SDP\r\n
c=IN IP4 10.64.2.42\r\n
t=0 0\r\n
m=audio 49154 RTP/AVP 0 18 8 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:18 G729/8000\r\n
a=fmtp:18 annexb=no\r\n
a=rtpmap:8 PCMA/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

12) SIP/2.0 100 Trying\r\n
From: "Extn201"<sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436784 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKc46297cfe46216441b0cb0f27f225935\r\n
Contact: <sip:2142425994@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

13) INVITE sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cbc-28249acb\r\n
Max-Forwards: 70\r\n

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Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Type: application/sdp\r\n
Content-Length: 233\r\n
\r\n
v=0\r\n
o=UserA 1589254832 4177140326 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14138 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - -\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

14) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cbc-28249acb\r\n
CSeq: 1 INVITE\r\n
Content-Length: 0\r\n

15) SIP/2.0 401 Unauthorized\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1111375004-1426540651594\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cbc-28249acb\r\n
CSeq: 1 INVITE\r\n
WWW-Authenticate: DIGEST qop="auth",nonce="BroadWorksXi7cdgzeyTkm2ddiBW",realm="BroadWorks",algorithm=MD5\r\n
Content-Length: 0\r\n

16) ACK sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1111375004-1426540651594\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 1 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cbc-28249acb\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
Content-Length: 0\r\n

17) INVITE sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060 SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 INVITE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cf2-2cad562b\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7cdgzeyTkm2ddiB W",uri="sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060",response="83225cd888618d34898d7821082bed09",algorithm=MD5,cnonce="c0428\r\n
Content-Type: application/sdp\r\n
Content-Length: 233\r\n
\r\n
v=0\r\n
o=UserA 1589254832 4177140326 IN IP4 10.25.128.228\r\n
s=Session SDP\r\n
c=IN IP4 10.25.128.228\r\n
t=0 0\r\n
m=audio 14138 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=silenceSupp:off - - - \r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

18) SIP/2.0 100 Trying\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cf2-2cad562b\r\n
CSeq: 2 INVITE\r\n
Content-Length: 0\r\n

19) SIP/2.0 183 Session Progress\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1907496662-1426540653883\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cf2-2cad562b\r\n
CSeq: 2 INVITE\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Session: Media\r\n
Content-Type: application/sdp\r\n
Content-Length: 238\r\n
\r\n
v=0\r\n
o=BroadWorks 211818 4177140327 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16022 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n

20) SIP/2.0 183 Session Progress\r\n
From: "Extn201"<sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>;tag=4c224088-a1980e4-13c4-3137f5-7b3ce35e-3137f5\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436784 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKc46297cfe46216441b0cb0f27f225935\r\n
Contact: <sip:2142425994@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 211818 4177140327 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14140 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

21) SIP/2.0 183 Session Progress\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1907496662-1426540653883\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cf2-2cad562b\r\n
CSeq: 2 INVITE\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Session: Media\r\n
Content-Type: application/sdp\r\n
Content-Length: 238\r\n
\r\n
v=0\r\n
o=BroadWorks 211818 4177140327 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16022 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n
a=silenceSupp:off - - - -\r\n
a=sendrecv\r\n

22) SIP/2.0 183 Session Progress\r\n
From: "Extn201"<sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>;tag=4c224088-a1980e4-13c4-3137f5-7b3ce35e-3137f5\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436784 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKc46297cfe46216441b0cb0f27f225935\r\n
Contact: <sip:2142425994@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 211818 4177140327 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14140 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

23) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1907496662-1426540653883\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137f2-c0428cf2-2cad562b\r\n
CSeq: 2 INVITE\r\n
Contact: <sip:10.253.136.231:5060;transport=udp>\r\n
Allow: ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY\r\n
Accept: application/media_control+xml,application/sdp\r\n
Content-Type: application/sdp\r\n
Content-Length: 238\r\n
\r\n
v=0\r\n
o=BroadWorks 211818 4177140327 IN IP4 10.253.136.231\r\n
s=-\r\n
c=IN IP4 10.253.136.231\r\n
t=0 0\r\n
m=audio 16022 RTP/AVP 0 101\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n

24) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>;tag=4c224088-a1980e4-13c4-3137f5-7b3ce35e-3137f5\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436784 INVITE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKc46297cfe46216441b0cb0f27f225935\r\n
Contact: <sip:2142425994@10.64.2.10:5060;transport=UDP>\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Type: application/sdp\r\n
Content-Length: 230\r\n
\r\n
v=0\r\n
o=BroadWorks 211818 4177140327 IN IP4 10.64.2.10\r\n
s=-\r\n
c=IN IP4 10.64.2.10\r\n
t=0 0\r\n
m=audio 14140 RTP/AVP 0 101\r\n
a=silenceSupp:off - - -\r\n
a=sendrecv\r\n
a=rtpmap:0 PCMU/8000\r\n
a=rtpmap:101 telephone-event/8000\r\n
a=fmtp:101 0-15\r\n

25) ACK sip:2142425994@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bKa92a97b75479dd2f7941c8820affb746\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>;tag=4c224088-a1980e4-13c4-3137f5-7b3ce35e-3137f5\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436784 ACK\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

26) ACK sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1907496662-1426540653883\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 2 ACK\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-3137fd-c042b530-1638e16\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
Contact: <sip:8563330425;tgrp=tgrp8563330425;trunk-context=comcastlab3.net@10.25.128.228:5060;transport=UDP>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7cdgzeyTkm2ddiB W",uri="sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060",response="83225cd888618d34898d7821082bed09",algor ithm=MD5,cnonce="c0428
Content-Length: 0\r\n

27) BYE sip:8563330425@10.25.128.228:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhdjs606im2eq97c62s7p7bea6-i8eskql5\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c224290-a1980e4-13c4-3137e0-1f12ff27-3137e0\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745525 BYE\r\n
Max-Forwards: 69\r\n
Content-Length: 0\r\n

28) SIP/2.0 200 OK\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.254.24.6;user=phone>;tag=650138131-1426540633318-\r\n
To: "8563330425 8563330425" <sip:8563330425@comcastlab3.net;user=phone>;tag=4c224290-a1980e4-13c4-3137e0-1f12ff27-3137e0\r\n
Call-ID: BW211713318160315-2135216694@10.254.24.6\r\n
CSeq: 305745525 BYE\r\n
Via: SIP/2.0/UDP 10.253.136.231:5060;branch=z9hG4bKhdjs606im2eq97c62s7p7bea6-i8eskql5\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

29) BYE sip:8563330425@10.64.2.42:5060;transport=udp SIP/2.0\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d9a24ca2518094d8\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 2 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-313803-c042cf15-5f2afad6\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "TEKVIZION PVS I" <sip:2142425938@10.64.2.42>\r\n
Content-Length: 0\r\n

30) SIP/2.0 200 OK\r\n
Via: SIP/2.0/UDP 10.64.2.10:5060;branch=z9hG4bK-313803-c042cf15-5f2afad6\r\n
From: "TEKVIZION PVS I" <sip:2142425938@10.64.2.10:5060;transport=UDP>;tag=4c223c78-a1980e4-13c4-3137e0-55707476-3137e0\r\n
Call-ID: 4c300ca8-a1980e4-13c4-3137e0-38ac09bf-3137e0@10.64.2.10\r\n
CSeq: 2 BYE\r\n
Supported: timer\r\n
Server: IP Office 9.0.3.0 build 941\r\n
To: <sip:8563330425@10.64.2.42:5060>;tag=d9a24ca2518094d8\r\n
Content-Length: 0\r\n

31) BYE sip:2142425994@10.64.2.10:5060;transport=UDP SIP/2.0\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport;branch=z9hG4bKc4258c98241b5ff7e291008c3b5a96ad\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>;tag=4c224088-a1980e4-13c4-3137f5-7b3ce35e-3137f5\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436785 BYE\r\n
Contact: "Extn201" <sip:8563330425@10.64.2.42:5060;transport=udp>\r\n
Max-Forwards: 70\r\n
Allow: INVITE,ACK,CANCEL,OPTIONS,BYE,INFO,NOTIFY\r\n
Supported: timer\r\n
User-Agent: IP Office 9.0.3.0 build 941\r\n
Content-Length: 0\r\n

32) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@10.64.2.10>;tag=f64e05cb621a9bf1\r\n
To: <sip:2142425994@10.64.2.10>;tag=4c224088-a1980e4-13c4-3137f5-7b3ce35e-3137f5\r\n
Call-ID: e5ab5eb2962f91676c1f2133cfb4348a\r\n
CSeq: 1200436785 BYE\r\n
Via: SIP/2.0/UDP 10.64.2.42:5060;rport=5060;branch=z9hG4bKc4258c98241b5ff7e291008c3b5a96ad\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
Content-Length: 0\r\n

33) BYE sip:10.253.136.231:5060;transport=udp SIP/2.0\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1907496662-1426540653883\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
CSeq: 3 BYE\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313803-c042cf25-68d688b5\r\n
Max-Forwards: 70\r\n
Supported: 100rel,replaces\r\n
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PRACK, REFER, REGISTER\r\n
User-Agent: ADTRAN_NetVanta_4430/R11.3.0.V\r\n
P-Asserted-Identity: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net>\r\n
[truncated] Authorization: Digest username="8563330425",realm="BroadWorks",nonce="BroadWorksXi7cdgzeyTkm2ddiB
W",uri="sip:10.253.136.231:5060;transport=udp",response="251afc91eab893b9526c2435dd2bc628",algorithm=MD5,cnonce="c042cf25",qop=aut
Content-Length: 0\r\n
34) SIP/2.0 200 OK\r\n
From: "Extn201" <sip:8563330425@bcv-sip-t-doc.wdv.comcast.net:5060;transport=UDP>;tag=4c224cb8-a1980e4-13c4-3137f2-83ac342-3137f2\r\n
To: <sip:2142425994@bcv-sip-t-doc.wdv.comcast.net:5060>;tag=1907496662-1426540653883\r\n
Call-ID: 4c301108-a1980e4-13c4-3137f2-385f67aa-3137f2@bcv-sip-t-doc.wdv.comcast.net\r\n
Via: SIP/2.0/UDP 10.25.128.228:5060;branch=z9hG4bK-313803-c042cf25-68d688b5\r\n
CSeq: 3 BYE\r\n
Content-Length: 0\r\n