

Dialogic[®] Brooktrout[®] SR140 Fax Software with Avaya Communication Manager 5.0 and Avaya G350 Gateway

Installation and Configuration Integration Note

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1. Scope

This document is intended as a general guide for configuring a basic installation of the *Avaya Communication Manager 5.0 and Avaya G350 Gateway* for use with Dialogic[®] Brooktrout[®] SR140 Fax over IP (FoIP) software platform. The interoperability includes *SIP and H.323* call control and T.38/T.30 media.

This document is not intended to be comprehensive, and thus should not and does not replace the manufacturer's detailed configuration documentation. Users of this document should already have a general knowledge of how to install and configure the *Avaya Communication Manager 5.0 and Avaya G350 Gateway.*

The sample configuration shown and/or referred in the subsequent sections was used for lab validation testing by Dialogic. Therefore, it is quite possible that the sample configuration will not match an exact configuration or versions that would be present in a deployed environment. However, the sample configuration does provide a possible starting point to work with the equipment vendor for configuring your device. Please consult the appropriate manufacturer's documentation for details on setting up your specific end user configuration.

For ease of reference, the Dialogic Brooktrout SR140 Fax Software and Dialogic Brooktrout TR1034 Fax Boards will sometimes be denoted herein, respectively, as SR140 and TR1034. The *Avaya Communication Manager 5.0* will be denoted herein as Avaya CM 5.0 and the Avaya G350 Gateway will be denoted G350 GW, or some other form thereof. Also, all mentions of SDK herein refer to the Dialogic Brooktrout SDK.

2. Configuration Details

The following systems were used for the sample configuration described in the document.

2.1 Avaya Communication Manager 5.0

Vendor	Avaya
Model	Communication Manager
Software Version	5.0
Protocol to SR140	SIP or H.323
Protocol to Gateway	SIP or H.323

2.2 Avaya G350 Gateway

Vendor	Avaya
Model	G350 with S8300
Software Version	SES-5.0.0.0-825.30, Operating system: Linux 2.6.11- AV24 i686, Built: Oct 4 15:33 2007, Contains: 00.0.825.4, CM Reports as: R015x.00.0.825.4, CM Release String: S8300-015-00.0.825.4, SES- 00.0.825.4-SP4a
PSTN Device	Dialogic® Brooktrout® TR1034 Fax Board
Protocol to PSTN Device	T1 ISDN
IP Device	Dialogic® Brooktrout® SR140 Fax Software and Avaya CM 5.0
Protocol to CM 5.0	SIP or H.323

2.3 Dialogic[®] Brooktrout[®] SR140 Fax Software

Vendor	Dialogic
Model	Dialogic® Brooktrout® SR140 Fax Software
Software Version	SDK 6.0.0 and higher
Protocol to CM 5.0	SIP or H.323
callctrl.cfg file	All defaults

2.4 Dialogic[®] Brooktrout[®] TR1034 Fax Board

Vendor	Dialogic
PSTN Device	Dialogic® Brooktrout® TR1034 Fax Board
Software Version	SDK 5.2.1 and higher
Protocol to PSTN Device	T1 ISDN
callctrl.cfg file	All defaults

2.5 Network System Configuration

The diagram below details the sample configuration used in connection with this document.



Diagram Notes:

- SR140 Fax Server = Fax Server including Dialogic[®] Brooktrout[®] SR140 Fax Software and third party fax application.
- TR1034 Fax Server = Fax Server including Dialogic[®] Brooktrout[®] TR1034 Fax Board and third party fax application.

3. Prerequisites

To support SIP, the Avaya GW requires the SES (SIP Enablement Services) option.

4. Summary of Limitations

- When configuring the Avaya GW for G.711 mu law and SIP, the SR140 must be configured to only offer the G.711 mu law codec in callctrl.cfg file.
- The Avaya GW cannot handle SIP invites with multiple "m" media lines, which the SR140 uses when originating a call with multiple codecs. So in callctrl.cfg, we added a section:

[host_module.1/rtp] rtp_codec=pcmu

• The "SIP Domain" in the SES System Properties was set to "test.brooktrout.com". The Avaya GW uses this as a filter for incoming invites, so the SR140 default for sip_From had to be changed to use this domain. So in callctrl.cfg, it looks like this:

Sip_From=Anonymous sip:no_from_info@test.brooktrout.com

• On the Avaya IP trunks, the "DTMF over IP" option should be set to "in-band".

5. Dialogic[®] Brooktrout[®] SR140 Fax Software Setup Notes

5.1 SIP Configuration

For the SIP sample test configuration, the SR140 was configured using the default values except as previously noted in the Summary of Limitations section. Consult the *Dialogic[®] Brooktrout[®] Fax Products Installation and Configuration Guide* for details.

The Installation and Configuration Guides for SDK 5.2.x, SDK 6.0.x and SDK 6.1.x are available from the site:

http://www.dialogic.com/manuals/brooktrout/default.htm

The callctrl.cfg file configured for SIP sample test configuration is shown for reference:

api_trace=none host_module_trace=none internal trace=none ip stack trace=none I3I4_trace=none 1413 trace=none max trace files=1 max_trace_file_size=10 trace file= [host_module.1] module_library=brktsip.dll enabled=true [host_module.1/t38parameters] t38_fax_rate_management=transferredTCF fax transport protocol=t38 only t38_fax_udp_ec=t38UDPRedundancy rtp_ced_enable=false t38 max bit rate=14400 t38_fax_version=0 media_renegotiate_delay_inbound=1000 media renegotiate delay outbound=-1 t38_fax_fill_bit_removal=false t38_fax_transcoding_jbig=false t38 fax transcoding mmr=false t38 t30 fastnotify=false t38_UDPTL_redundancy_depth_control=5 t38 UDPTL redundancy depth image=2 [host_module.1/parameters] sip max sessions=256 sip_default_gateway=0.0.0.0:0 sip_proxy_server1= sip_proxy_server2= sip_proxy_server3= sip_proxy_server4= sip_registration_server1= sip registration server1 aor= sip registration server1 username=

sip registration server1 expires=3600 sip registration server2= sip_registration_server2_aor= sip_registration_server2_username= sip_registration_server2_password= sip_registration_server2_expires=3600 sip registration server3= sip registration server3 aor= sip_registration_server3_username= sip registration server3 password= sip_registration_server3_expires=3600 sip_registration_server4= sip registration server4 aor= sip_registration_server4_username= sip_registration_server4_password= sip registration server4 expires=3600 sip registration interval=60 sip_Max-Forwards=70 sip From=Anonymous <sip:no from info@sushi.brooktrout.com> sip Contact=0.0.0.0:0 sip_username=sip session name=no session name sip_session_description= sip_description_URI= sip email= sip_phone= sip Route= sip session timer session expires=0 sip session timer minse=-1 sip_session_timer_refresh_method=0 sip_ip_interface= sip_ip_interface_port=5060 [host module.1/rtp] rtp_codec=pcmu [module.41] model=SR140 virtual=1 exists=1 vb firm=C:\Brooktrout\Boston\fw\bostvb.dll channels=120 [module.41/ethernet.1] ip_interface={8A1AA204-C89E-4A4F-888F-360E11C82C77}:0 media port min=56000 media port max=57000 [module.41/host_cc.1] host module=1 number of channels=120

sip_registration_server1_password=

5.2 H.323 Configuration

For the H.323 sample test configuration, the SR140 was configured using the default values. Consult the *Dialogic*[®] *Brooktrout*[®] *Fax Products Installation and Configuration Guide* for details.

The callctrl.cfg file configured for H.323 sample test configuration is shown for reference:

api_trace=none host module trace=none internal_trace=none ip stack trace=none 1314 trace=none 1413 trace=none max trace files=1 max trace file size=10 trace file= [module.41] model=SR140 virtual=1 exists=1 vb firm=C:\Brooktrout\Boston\fw\bostvb.dll channels=120 [module.41/ethernet.1] ip interface={8A1AA204-C89E-4A4F-888F-360E11C82C77}:0 media_port_min=56000 media port max=57000 [module.41/host_cc.1] host_module=1 number of channels=120 [host_module.1] module_library=brkth323.dll enabled=true [host_module.1/t38parameters] t38_fax_rate_management=transferredTCF fax transport protocol=t38 only t38 fax udp ec=t38UDPRedundancy rtp ced enable=false t38 max bit rate=14400 t38 fax version=0 media_renegotiate_delay_inbound=1000 media_renegotiate_delay_outbound=-1 t38_fax_fill_bit_removal=false t38_fax_transcoding_jbig=false t38_fax_transcoding_mmr=false t38_t30_fastnotify=false t38 UDPTL redundancy depth control=5 t38 UDPTL redundancy depth image=2 [host module.1/parameters] h323_CalledPartyOption=1 h323 default gateway=0.0.0.0:0 h323 e164alias= h323_FastStart=1 h323 gatekeeper id= h323_gatekeeper_ip_address=0.0.0.0:0

h323_gatekeeper_ttl=0 h323_H245Stage=5 h323_h245Tunneling=1 h323_h323IDalias= h323_local_ip_address=0.0.0.0:0 h323 Manufacturer=Dialogic Corporation h323_ManufacturerCode=48 h323 max sessions=256 h323 MediaWaitForConnect=0 h323_OlcRejectResponseTimeout=-1 h323 OverrideNumberingPlan=-1 h323_OverrideNumberingType=-1 h323_RasTerminalType=0 h323 RasVoiceSupportedPrefixesE164= h323_register=0 h323_support_alternate_gk=0 h323 t35CountryCode=181 h323 t35Extension=0

6. Dialogic[®] Brooktrout[®] TR1034 Fax PSTN Setup Notes

For the sample test configuration, the TR1034 was configured using the default values, consult the *Dialogic*[®] *Brooktrout*[®] *Fax Products Installation and Configuration Guide* for details.

7. Avaya Gateway Setup Notes

Two Avaya tools were used to create the Avaya configuration. The command line based "sat" tool for creating the trunks and dial plans, and also the Avaya SES GUI screens for setting SIP parameters.

7.1 Network Addresses

Device #	Device Make, Model, and Description	Device IP Address
1	SR140	10.128.30.12
2	Avaya server	10.128.30.34
3	Avaya gateway	10.128.30.35
4	TR1034 PSTN server	10.128.30.44 connected to the Avaya GW via T1 ISDN

7.2 IP Trunk Configuration

Using the "sat" tool "list trunk-group" command, we see trunk-group 1 is the ISDN T1 line, group 2 is the H.323 IP trunk, and group 4 is the SIP IP trunk.

CIX	🔤 Telnet 10.128.30.34 🛛 🗖										- 🗆 🗙
list	list trunk-group										
			TRUN	K GROUPS							
Grp No.	TAC	Group Туре	Group Name		No. Mem	TN	COR	CDR	Meas	Out Dsp	Que Len
1 2 4	800 801 804	isdn isdn sip	ISDN-PRI H.323 SES TRUNK		23 10 60	1 1 1	555	у У У	none none none	n n n	0 0 0
Comma Comma	and su	uccessfully co	ompleted								
ESC-:	x=Can	c <mark>el Esc-e=Sub</mark> r	nit Esc-p=Prev	Pg Esc-n=Next	Pg E	sc-h	=Hely	o Eso	c−r=Re	efres	:h ▼

H.323 trunk group 2

Using the "sat" tool "display trunk-group 2" command, we see details of the H.323 trunk group.

🔤 Telnet 10.128.30.34				- 🗆	×
display trunk-group 2		Page	1 of	21	
	TRUNK GROUP_				
Group Number: 2	Group Type: isdnCI	R Repor	ets: y		
Group Name: H.323 Direction: two-way	UVK: 5 IN: 1 Outgoing Display? n Carrie	r Mediu	にHC: 80 im: H.3	23	
Dial Access? n	Busy Threshold: 255 Night Service	:			
Queue Length: 0 Service Tune: tie	Auth Code? n				
	Member Assignment	Method	l: manu	al	
ESC-x=Cancel Esc-e=Submit	Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Hel	p Esc-i	r=Refre	sh	-



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📧 Telnet 10.128.30.34		- 🗆 ×
display trunk-group 2		Page 3 of 21 🔺
TRUNK FEATURES ACA Assignment?	n Measured: none Internal Alert? n Data Restriction? n NCA Send Name: u Se	Maintenance Tests? y -TSC Trunk Member: pd Calling Number:
Used for DCS? Suppress # Outpulsing?	n Format: public UUI IE Treatm	d EMU Visitor CPN? n ent: service-provider
Send UUI IE?	Replace R Replace Un Send Hold/Unh Modify Tand	estricted Numbers? n available Numbers? n Connected Number: y old Notifications? n em Calling Number? n
Send Codeset 6/7 LAI IE?	" n	
ESC-x=Cancel Esc-e=Submit	Esc-p=Prev Pg Esc-n=Next Pg Esc-	h=Help Esc-r=Refresh ▼





SIP trunk group 4

Using the "sat" tool "display trunk-group 4" command, we see details of the SIP trunk group.







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disp]	lay trunl	k-group 4			I	Page	5 of	21	
			TRU	NK GROUP					
				Administered	Members (min/r	nax):	1/60		
GROUI	P MEMBER	ASSIGNMENTS		Total Adı	ministered MemJ	bers:	60		
	_								
	Port	Na	me						
1:	T00044	SE	S TRUNK						
2:	T00045	SE	S TRUNK						
3:	T00046	SE	S TRUNK						
4:	T00047	SE	S TRUNK						
5:	T00048	SE	S TRUNK						
6:	T00049	SE	S TRUNK						
7:	T00050	SE	S TRUNK						
8:	T00051	SE	S TRUNK						
9:	T00052	SE	S TRUNK						
10:	T00053	SE	S TRUNK						
11:	T00054	SE	S TRUNK						
12:	TØØØ55	ŜΕ	S TRUNK						
13:	таааба	SE	S TRUNK						
14:	T00057	ŠΕ	S TRUNK						
15:	T00058	SĒ	S TRUNK						
		02							
ESC->	k=Cancel	Esc-e=Submit	Esc-p=Prev	Pg Esc-n=Next	Pg Esc-h=Help	Esc-r:	=Refre:	sh	•

Signaling groups

Using the "sat" tool "list signaling-group" command, we see that H.323 is signaling group 2 and SIP is signaling group 4.

	elnet 10.12	8.30.3	4								- 🗆 🗙
list	signaling	g-grou	ւթ								▲
	SIGNALING GROUPS										
Grp No.	Group Туре	FAS?	No. Trunk	Brds	Primary D-Channe	;1	Secondary D-Channel	Max NCA TSCs	Max CA TSCs	No. NCA	Adm'd TSCs
1 2 4	isdn-pri h.323 sip	У У У	1 1 1		001V324			9 9 9	9 9 9	0 0 0	
Comma	and succes	ssfull	ly comp	leted	l						
Comma ESC->	and: k=Cancel 1	Esc-e=	=Submit	Esc-	-p=Prev F	Pg B	Esc-n=Next	Pg Esc-h=H	elp Esc-m	-=Refr	esh 🔽

H.323 signaling group 2

Using the "sat" tool "display signaling-group 2" command, we see details of the H.323 signaling group. Note that DTMF over IP is set to "in-band-g711".

💌 Telnet 10.128.30.34	_ 🗆 ;	ĸ
display signaling-group 2	Page 1 of 5	1
SIGNALIN	IG GROUP	٦
Group Number: 2 Group Number: 2 IP Video? n Trunk Group for Channel Selection TSC Supplementary Service Protocol T303 Timer(sec)	:: h.323 ?? n Max number of NCA TSC: 0 ?? n Max number of CA TSC: 0 Trunk Group for NCA TSC: 1: 2 .: a :: 10	
Near-end Node Name: procr Near-end Listen Port: 1720 LRQ Required? n BRO Required? n	Far-end Node Name: kampai Far-end Listen Port: 1720 Far-end Network Region: 1 Calls Share IP Signaling Connection? n	
DTMF over IP: in-band-g711 Link Loss Delay Timer(sec): 90 Enable Layer 3 Test? n H.323 Outgoing Direct Media? n	Bypass If IP Threshold Exceeded? n H.235 Annex H Required? n Direct IP-IP Audio Connections? y IP Audio Hairpinning? y Interworking Message: PROGress DCP/Analog Bearer Capability: 3.1kHz	

ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refresh

🔤 Telnet 10.128.30.34						-		×
display signaling-grou	p 2				Page	2 of	5	1
	ADMINISTERED	NCA TSC A	SSIGNME	NT_				
Service/Feature: TSC Local		As-neede	d Inact	ivity Time-	out (mi Adi	n): Mach		
Index Ext. Enabl	ed Established	Dest. Di	gits	Appl.	Name	ID		
1: n			0					
2: n								
3: n								
4: n								
5: n								
<u>6</u> : n								
7: n								
8: n								
9 : n								
10 n								
11: n								
12: n								
13- N								
14: N 4F -								
10- N								
ESC-x=Cancel Esc-e=Sub	mit Esc-p=Prev	Pg Esc-n=	Next Pg	Esc-h=Help	Esc-r=	Refresh		•

SIP signaling group 4

Using the "sat" tool "display signaling-group 4" command, we see details of the SIP signaling group. Note that DTMF over IP is set to "in-band".

Telnet 10.128.30.34	_ 🗆 🗙
display signaling-group 4 SIGNAMING	G GROUP
Group Number: 4 Group Type: Transport Method: Co-Resident SES?	sip tls Yy
Near-end Node Name: procr Near-end Listen Port: 6001 Far-end Domain: sushi.brooktrout.c	Far-end Node Name: ses Far-end Listen Port: 5061 Far-end Network Region: 1 com
	Bypass If IP Threshold Exceeded? n
DTMF over IP: in-band	Direct IP-IP Audio Connections? y IP Audio Hairpinning? n
Enable Layer 3 Test? n Session Establishment Timer(min): 3	
Command: ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg B	Esc-n=Next Pg Esc-h=Help Esc-r=Refresh ▼

IP Codec setting

Using the "sat" tool "display ip-codec-set 1" command, we see that the Avaya GW was set to use G711 mu law as the codec and T.38 for fax.

C:\	Telnet 10.1	28.30.34				- 🗆 ×
dis	play ip-codec-	-set 1			Page	1 of 2 🔺
			-			
	Codec Set: 1					
1::2: 34:5: 7: 7:	Audio Codec G.711MU	Silence Suppression y	Frames Per Pkt 2	Packet Size(ms) 20		
ESC	-x=Cancel Esc- Teinet 10.1	-e=Submit Esc 28.30.34	-p=Prev P	'g Esc-n=Next Pg Esc-h=	Help Esc−ı	×=Refresh
die	nlau in-codec-	-set 1			Page	2 of 2
uis	pray ip couec	366 1			Taye	2 01 2
		IP	Codec Set			
			Allow Di	rect-IP Multimedia? n		
	FAX Modem TDD/TTY Clear-channe]	Mode t.38-stan off off I n	ıdard	Redundanc y Ø Ø 3 Ø		

ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refresh

▼

SIP settings in the SIP Server Management tool View System Properties - Microsoft Internet Explorer 🔊 - 🚵 🔜 🔇 Back 🝷 🕞 🕤 × 2 🔎 Search 🦙 Favorites \, 🪱 Address 🙆 https://10.128.30.34/cgi-bin/madmin/do/thishost/this_host Go Integrated Management AVAVA SIP Server Management Server: 10.128.30.34 Help Exit Тор **View System Properties** • Users Address Map Priorities SES Version SES-5.0.0.0-825.30 🗉 Adjunct Systems System Configuration simplex Conferences Host Type CM combined home-edge Emergency Contacts Export/Import to ProVision SIP Domain* sushi.brooktrout.com Hosts Note that the DNS domain is sushi.cantada.com IM logs If you are unsure about this field, most often the SIP Media Servers domain should be the root level DNS domain. For example, for a DNS domain of eastcoast.example.com, the SIP Media Server Extensions domain would likely be configured to example.com. This Server Configuration allows SIP calls and instant messages to users with handles Admin Setup of the format handle@example.com IM Log Settings SIP License Host* 10.128.30.34 License System Properties DiffServ/TOS Parameters SIP Phone Settings Call Control PHB Value* 46 Survivable Call Processors System Status 802.1 Parameters 🗉 Trace Logger Priority Value* 6 • Trusted Hosts Management System Access Login Management System Access Password DB Log Level disabled Update © 2006 Avaya Inc. All Rights Reserved. 🔒 🥑 Internet

List Hosts - Microsoft	t Inter	net	Explor	rer					
🌀 Back 🔹 🕥 🕤 💌 😰	1	🔎 Sea	arch 🤸	Favorites	0	- 🌉 🔳 -	📃 🋍 😐 🚳 👘		
Address 🛃 https://10.128.30.34/	/cgi-bin/n	nadmin,	/do/listho	st/top					🗸 🄁 Co
AVAYA Integrated Mar SIP Server M									anagement
Help Exit Server: 10.125									ver: 10.128.30.34
Top © Users Address Man Priorities	۰.	.ist I	losts						
 Adjunct Systems 			<u>Comm</u>	ands		<u>Host</u>	Туре	<u>SES</u> Version	
Conferences	Edit	Мар	Go-To	Test-Link	Delete	10.128.30.34	CM combined home-edge	ses-5.0.0.0-825.30	
Emergency Contacts									
Export/Import to ProVision									
= Hosts									
List									
IM logs									
Media Servers									
Media Server Extensions									
Admin Setun									
IM Log Settings									
License									
System Properties									
 SIP Phone Settings Download Maintenance Data List Default Settings 									
List Group Settings									
Survivable Call Processors									
System Status									
Trace Logger									
Trusted Hosts									~
Done								🔒 🥥 Int	ernet

Edit Host - Microsoft	Internet Exp	lorer 📃 🗖 🗙
🕝 Back 🔹 📀 🕤 💌 💋) 🏠 🔎 Search	📌 Favorites 🕢 🔗 💺 📄 📙 🎇 😐 🦓
Address 🗃 https://10.128.30.34,	/cgi-bin/madmin/do/l	listhost/edit_host?node_id=1 💽 Go
AVAYA		Integrated Management SIP Server Management
Help Exit		Server: 10.128.30.34
Top □ Users	Hedit Hos	st
Address Map Priorities Adjunct Systems Conferences Emergency Contacts Export/Import to ProVision Hosts List IM logs Media Servers Media Server Extensions Server Configuration Admin Setup IM Log Settings License System Properties SIP Phone Settings Survivable Call Processors System Status Trace Logger Trusted Hosts	Host IP Address* Profile Service Password* Host Type Parent Listen Protocols Link Protocols Access Control Policy (Default) Emergency Contacts Policy Minimum Registration (seconds) Line Reservation Timer (seconds) * Outbound Routing Allowed From Outbound Direct Domains Default Ringer Volume* Default Receiver Volume* Default Receiver Volume* Default Receiver Volume* VMM Server Address VMM Server Port Fields marked *	10.128.30.34 •••••••• CM combined home-edge none ♥ UDP TCP ♥ TLS ● UDP ● TCP ● TLS ● Allow ● Deny All ● Allow ● Deny 30 Ø Internal ● External ● Port ● UDP ● TCP ● TLS ⑤ Default Ringer Cadence 2 ⑤ Default Speaker Volume* 5 ⑤ Out Speaker Volume* 5 ⑤ Out Speaker Volume* 5 ⑤ Out Speaker Volume* 5 ⑥ Out Speaker Volume* 5 ⑥ Out Speaker Volume* 5
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List Host Address Ma	ıp - Microsoft Internet	Explorer	
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Address 🗃 https://10.128.30.34	/cgi-bin/madmin/do/editaddressm	ap/listmap?sid=1	💙 🔁 Go
AVAVA			Integrated Management 🧖
Heln Exit			SIP Server Management Server: 10.128.30.34
Top P Users	🚦 List Host Addre	ss Map	
Address Map Priorities			
 Adjunct Systems 	Host 10.128.30.34		
• Conferences	Commands Name	Commands Contact	
Emergency Contacts	Edit Delete Kampai	<u>contact</u>	
Export/Import to ProVision	·····	Edit Delete sip:\$(user)@10.128.30.13	2
= Hosts	Add Another Map	Add Another Contact	Delete Group
List			
IM logs	Add Map In New Group		
Media Servers	1		
Media Server Extensions			
Server Configuration			
Admin Setup	1		
IM Log Settings	1		
Elicense System Droportios	1		
= SID Dhone Settings			
Download Maintenance Data			
List Default Settings	1		
List Group Settings			
Survivable Call Processors	1		
System Status	1		
Trace Logger	1		
Trusted Hosts	1		
	1		
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List Users - Microsof	t Internet Explorer	
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Address 🕘 https://10.128.30.34	/cgi-bin/madmin/do/listusers/list	🖌 🄁 Go
AVAYA	Integrated Manage SIP Server Manag	ement
Help Exit	Server: 10.1	28.30.34
Top ■ Users Add	List Users	≡
Default Profile Delete Edit List	Showing users 1 to 1 out of 1 users. User ID Host Name testing 10.128.30.34 testing user	
Password Search Manage All Registered Users Search Registered Devices Search Registered Users Address Map Priorities		
 Adjunct Systems Conferences Emergency Contacts Export/Import to Provision 		~
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Edit Media Server In	terface - Microsoft Inter	rnet Explorer 📃 🗆 🔀
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Address 🎒 https://10.128.30.34,	/cgi-bin/madmin/do/listacp/edit_acp?	racp id=1
	<u> </u>	
AVAYA		SID Server Management
Help Exit		Server: 10.128.30.34
Top ₽ Users	Edit Media Server	' Interface
Address Map Priorities	Media Server Interface	
Adjunct Systems Conferences	Name*	10.128.30.34CM
Emergency Contacts	Host	10.128.30.34
Export/Import to ProVision	SIP Trunk IP Address*	10.128.30.34
# Hosts	SIP Trunk Port*	6001
IM logs	Media Server	
Media Servers List	Media Server Admin Address (see Heln)	10.128.30.34
Media Server Extensions	Media Server Admin Port	5022
Server Configuration	Media Server Admin Login	sipuser
Admin Setup IM Log Settings	Media Server Admin Password*	
License	Media Server Admin Password	•••••
System Properties	Confirm*	
SIP Phone Settings	ama connection rype	Note: Changing connection type to SSH resets media server admin port to 5022 if the
Survivable Call Processors		port has not changed. Changing connection type to Telnet resets media server admin
System Status	Fields marked * are required	port to 5023 if the port has not changed.
 Trusted Hosts 	Lindate	
	opear	
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System Status - Micro	osoft Internet Explor	er					
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Address 🛃 https://10.128.30.34,	/cgi-bin/madmin/do/systemstatu	s/top		🗸 🏹 🖓 🖓			
AVAYA	AVAYA						
Help Exit				Server: 10.128.30.34			
Top Overs	System Status						
Address Map Priorities Adjunct Systems	Access Admin Setup						
Conferences	Admin Connectivity	Connected					
Emergency Contacts Export/Import to ProVision	Master Administration IP Address	10.128.30.34					
• Hosts	Host Type	home/edge					
IM logs	SipServer	SipServer 46/46 UP SIMPLEX					
Media Servers	PPM Status	PPM is running					
Media Server Extensions	SESDataService	SESDataService is running					
Server Configuration							
SIP Phone Settings							
Survivable Call Processors							
System Status							
Trace Logger							
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Address Map Prioritie	s - Micro	soft Internet I	Explorer						
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Address 🗃 https://10.128.30.34/0	Address 💩 https://10.128.30.34/cgi-bin/madmin/do/listaddressmaps/top								
AVAVA Integrated Management									
Top © Users Address Map Drighting	P Add	ress Map Prio	orities				Server: 10.120.30.34		
Adjunct Systems Conferences Emergency Contacts	<u>Map</u> <u>Handle</u>	<u>Pattern</u>	<u>Мар</u> Туре	<u>Map</u> <u>Owner</u>	<u>Host</u>	Priority* Highest Priority Ξ 1			
 Export/Import to ProVision Hosts 	Kampai	^sip:7813230400	host	10.128.30.34	10.128.30.34	1			
IM logs	SIP_to_T1	^sip:0000	media server	10.128.30.34CM	10.128.30.34	1			
 Media Servers Media Server Extensions Server Configuration SIP Phone Settings Download Maintenance Data List Default Settings Survivable Call Processors System Status Trace Logger Trusted Hosts 	Update								
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ど Done						<u></u>	Internet		

List Licenses - Micro	soft Internet Explorer	
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Address 🕘 https://10.128.30.34	/cgi-bin/madmin/do/listlicense/list	🔽 🄁 Go
Αναγα		Integrated Management
Help Exit		Server: 10.128.30.34
Top Users Address Map Priorities Adjunct Systems Conferences Emergency Contacts Export/Import to ProVision Hosts IM logs Media Servers Media Servers Media Server Extensions Server Configuration Admin Setup IM Log Settings License System Properties SIP Phone Settings Download Maintenance Data List Default Settings List Group Settings System Status System Status Horessors System Status	List Licenses <u>Proxy Name</u> Name Message Show sipserver Edge Proxy Show sipserver Home Seats Access WebLM	
Trusted Hosts		
Add		V
ê		🔒 🔮 Internet 🦼

Additional "sat" tool screen captures

Here are some additional screenshots from within the sat tool for reference.

Telnet 10.128.30.34		- 🗆 ×
display ip-network-region 1 Page 2 IP NETWORK REGION_	of	19
INTER-GATEWAY ALTERNATE ROUTING / DIAL PLAN TRANSPARENCY Incoming LDN Extension: Conversion To Full Public Number - Delete: Insert: Maximum Number of Trunks to Use for IGAR: Dial Plan Transparency in Survivable Mode? n		
BACKUP SERVERS(IN PRIORITY ORDER) H.323 SECURITY PROFILES 1 challenge 2 2 3 3 4 4 5 6 Allow SIP URI Conversion? y		
TCP SIGNALING LINK ESTABLISHMENT FOR AVAYA H.323 ENDPOINTS Near End Establishes TCP Signaling Socket? y Near End TCP Port Min: 61440 Near End TCP Port Max: 61444		
ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=R	lefre	sh 🔽



📼 Te	elne	et 10.1	28.30.	34						- 🗆	×
displa	y i	p-networ	k-map					Page	1 of	32	
				IP ADDR	ESS MAPPING						<u> </u>
From	IP	2294bbA	(Το ΙΡ	ssaubbû	Subnet	Region	IILAN	Emergency Location Extension	,		
1100	••	-			or mash/	negron	n	LACCHISION	1		
		-	-				n				
		-	-				n				
· .	-	-	-				n				
· .							n				
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· ·	-	-	-				n				
ESC-y=	Can	cal Ecc-	e=Submit	Fee-n=	Phone Par Foo-	n=Nevt I	a Fee-h=H	aln Ecc-n=	Pofue	heh	-

Telnet 10.128.30.34				- 🗆	×
display ip-network-region 1		Page :	1 of	19	
	P NETWORK REGION_				—
Region: 1					
Location: 1 Authoritative	Domain: sushi.brooktrout.com				
Name: Lab					
MEDIA PARAMETERS	Intra-region IP-IP Direct Audio:	: yes			
Codec Set: 1	Inter-region IP-IP Direct Audio:	yes			
UDP Port Min: 2048	IP Audio Hairpinning?	'y			
UDP Port Max: 3029					
DIFFSERV/TOS PARAMETERS	RTCP Reporting Enabled?	?y			
Call Control PHB Value: 46	RTCP MONITOR SERVER PARAMETERS				
Audio PHB Value: 46	Use Default Server Parameters?	n n			
Video PHB Value: 26	Server IP Address:	: 10 .12	8.30	.34	
802.1P/Q PARAMETERS	Server Port:	: 5005			
Call Control 802.1p Priority: 6	RTCP Report Period(secs):	: 5			
Audio 802.1p Priority: 6					
Video 802.1p Priority: 5	AUDIO RESOURCE RESERVATION	I PARAME:	ſERS		
H.323 IP ENDPOINTS	RSVP Er	nabled? i	n		
H.323 Link Bounce Recovery? y					
Idle Traffic Interval (sec): 20)				
Keep-Alive Interval (sec): 5					
Keep-Alive Count: 5					
ESC-x=Cancel Esc-e=Submit Esc-p=	=Prev Pg Esc-n=Next Pg Esc-h=Help	D Esc-r=l	Refre	sh	



ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refresh

Telnet 10.128.30.34		- 🗆 ×
display ip-network-region 1 Page	3 of	19 🔺
Inter Network Region Connection Management src dst codec direct WAN-BW-limits Video rgn rgn set WAN Units Total Norm Prio Shr Intervening-regio 1 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 10 1 11 1 12 1 3 1 14 1 15	Dyn ns CAC	IGAR
ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc	-r=Refre	esh 🔽

🚥 Telnet 10.12	8.30.34	- 🗆 ×
display node-names	ip	
	IP NODE NAMES	
Name	IP_Address	
default	0.0.0	
ebi	10.128.30.101	
fernando	10.128.24.44	
hiramasa	10.128.30.102	
kampai	10.128.30.12	
procr	10.128.30.34	
ses	10.128.30.34	
zuke	10.128.30.119	
zuke_usb	10.128.30.152	
(9 of 9 admini Use 'list node-name Use 'change node-na	istered node-names were displayed > ss' command to see all the administered node-names mes ip xxx' to change a node-name 'xxx' or add a node-na	me
Command:	-Cubrit Fac-u-Ducu De Fac-r-Neut De Fac-h-Walu Fac-u-Dafu	a a la 🔻

🚥 Telnet 10.1	28.30.34			- 🗆 ×
display locations	:		Page	1 of 4
		LOCATIONS		
Â	RS Prefix 1 Requir	ed For 10-Digit	NANP Calls? y	
Loc Name No 1: Main	Timezone Rule Offset + 00:00 0	NPA ARS Atd FAC FAC	Disp Prefix Parm 1	Proxy Sel Rte Pat
2:	=			
3:	=			
4:	:			
5:	:			
6:	:			
?:	:			
8:	=			
9:	=			
10:	:			
11:	:			
12:	:			
13:	=			
14:	:			
ESC-x=Cancel Esc-	e=Submit Esc-p=Pre	v Pg Esc-n=Next	Pg Esc-h=Help Esc-r	-Refresh

Telnet 10.128.30.34		- 🗆 ×
display media-gateway 1		
Number: 1 Type: g350 Name: minari_gw Serial No: 051835724256 Encrypt Link? y Network Region: 1 Location: 1 Recovery Rule: none	MEDIA GATEWAY Registered? y FW Version/HW Vintage: 27 .31 .0 /1 MGP IP Address: 10 .128.30 .35 Controller IP Address: 10 .128.30 .34 MAC Address: 00:04:0d:9a:a1:5d Site Data:	
Slot Module Type V1: S8300	Name ICC MM	
U2: U3: MM710 U4: U5:	DS1 MM	
V6: V7: 1T+2L-Integ-Analog	ANA IMM Max Survivable IP Ext: 8	
U9: Command: E9C-y=Capped Fac-a=Submit Fac-		ch 🔻

🚥 Telnet	10.128.30.34	4			- 🗆 ×
list public-	unknown-number	ing start	5		▲
	NUMBE	RING - PUB	LIC/UNKNOWN FOF	MAT	
Ext Len 4 4	Ext Code ØØ Ø3	Trk Grp(s) 1 1	CPN Prefix 781911 781323	Total CPN Len 10 10	
Command succ	essfullu comm	atad			
Command: ESC-x=Cancel	Esc-e=Submit	Esc-p=Prev	Pg Esc-n=Next	Pg Esc-h=Help	Esc-r=Refresh

🚥 Telnet	10.128.3	0.34			-	. 🗆 🗙
list station	1					
		ST	ATIONS			
Ext∕ Hunt-to	Port∕ Type	Name/ Surv GK NN	Move	Room∕ Data Ext	Cu1/ COR/ Cabl Cu2 COS TN Jac	le∕ ck
0102	0010702 2500	line 2 (g350 f)	ront panel) no		1 1 1	
Command succ Command: _	cessfully c	completed				
ESC-x=Cancel	L Esc-e=Sub	omit Esc-p=Prev	Pg Esc-n=Nex	kt Pg Esc-h=ł	lelp Esc-r=Refres	n 🔻

Telnet 10.128.30.34				- 🗆	×
change station 0102	STATION	Page	1 of	4	
Extension: 0102 Type: 2500 Port: 001V702 Name: line 2 (g350 front panel) STATION OPTIONS XOIP Endpoint type: auto Loss Group: 1 Off Premises Station? n	Lock Messages? n Security Code: Coverage Path 1: Coverage Path 2: Hunt-to Station: Time of Day Lock Tal Message Waiting Indicat	ble: tor: noi	BCC: TN: COR: COS: Tests?	0 1 1 1 9	
Survivable COR: internal Survivable Trunk Dest? y	Remote Office Pho	one? n			
ESC-x=Cancel Esc-e=Submit Esc-p=Prev	Pg Esc-n=Next Pg Esc-h=Hel	lp Esc-i	r=Refre	sh	▼

m Telnet 10.128.30.34	4		- 🗆	×
change station 0102		Page 2 of	4	
		STATION		
FEATURE OPTIONS				
LWC Reception:	spe			
LWC Activation?	У	Coverage Msg Retrieval?	У	
LWC Log External Calls?	n	Auto Answer:	none	
CDR Privacy?	n	Data Restriction?	n	
_ Redirect Notification?	У	Call Waiting Indication:	У	
Per Button Ring Control?	n	Att. Call Waiting Indication:	У	
Bridged Call Alerting?	n	Distinctive Audible Alert?	У	
Switchhook_Flash?	У	Adjunct Supervision?	У	
Ignore Rotary Digits?	n			
H.320 Conversion?	n	Per Station CPN - Send Calling Number?		
Service Link Mode:	as-needed			
Multimedia Mode:	basic	Audible Message Waiting?	n	
MWI Served User Type:				
AUDIX Name:				
		Coverage After Forwarding?	s	
		Multimedia Early Answer?	n_	
		Direct IP-IP Audio Connectio	ns? յ	
Emergency Location Ext:	0102	IP Audio Hairpinning?	У	
			_	
ESC-x=Cancel Esc-e=Submit	Esc-p=Prev	Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refr	esh	

Telnet 10.128.30.34 × change station 0102 3 of Page 4 ٠ STATION Bridged Appearance Origination Restriction? n ENHANCED CALL FORWARDING Forwarded Destination Active Unconditional For Internal Calls To: External Calls To: Busy For Internal Calls To: External Calls To: No Reply For Internal Calls To: External Calls To: n n n n n SAC/CF Override: No ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refresh

🚥 Telnet 10.128.3	0.34			- 🗆 ×
change station 0102		Page	4 of	4
SITE DATA	STATION			
Room:		Headset? n		
Jack: Cable:		Speaker? n Mounting: d		
Floor:		Cord Length: 0		
Building:		Set Color:		
ABBREVIATED DIALING List1:	List2:	List3:		
HOT LINE DESTINATION Abbreviated I	ialing List Number (From	above 1, 2 or 3): Dial Code:		
Line Appearance:	call-appr			
ESC-x=Cancel Esc-e=Sub	mit Esc-p=Prev Pg Esc-n=N	ext Pg Esc-h=Help Esc	-r=Refre	sh 🔽

Telnet 10.128.30.34				- 🗆 ×
display capacity		Page	1 of	12
SYSTEM CHPHCITY				
Current System Memory Configurati	lon :	Standard	Quetem	
	Used	Available	Limit	
AAR⁄ARS				
AAR/ARS Patterns: Inserted Digit Strings:	43	250 1197	254 1200	
ABBREVIATED DIALING (AD)	Ø	12000	12000	
AD Personal Lists Per System:	õ	2400	2400	
ADJUNCT SWITCH APPLICATION INTERFACE (ASAI)				
Active Controlling Associations: Notification Reguests:	Ø	2000	2000 300	
Simultaneous Active Adjunct Controlled Calls:	õ	600	600	
ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg	Esc-	h=Help Esc-	r=Refre	sh 🔽

display system-parameters customer-options	Page	2 of	10	
OPTIONAL FEATURES				
IP PORT CAPACITIES Maximum Administered H.323 Trunks: 22 Maximum Concurrently Registered IP Stations: 450 Maximum Administered Remote Office Trunks: 450 Maximum Concurrently Registered IP eCons: 0 Maximum Concurrently Registered IP eCons: 0 Max Concur Registered Unauthenticated H.323 Stations: 0 Maximum Video Capable H.323 Stations: 0 Maximum Video Capable H.323 Stations: 0 Maximum Administered Ad-hoc Video Conferencing Ports: 0 Maximum Administered Ad-hoc Video Conferencing Ports: 0 Maximum Number of DS1 Boards with Echo Cancellation: 80 Maximum TN2602 Boards with 320 VoIP Channels: 0 Maximum TN2602 Boards with 320 VoIP Channels: 0 Maximum Number of Expanded Meet-me Conference Ports: 0 KoTE: You must logoff & login to effect the permissi	USED 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	es.)	ash	-

Telnet 10.128.30.34	-		×
display system-parameters customer-options Page 4 of	1	0	
OPTIONAL FEATURES			
Emergency Access to Attendant? y Enable 'dadmin' Login? y Enhanced Conferencing? y Enhanced EC500? y Enhanced EC500? y Enhanced EC500? y Enterprise Survivable Server? n Enterprise Wide Licensing? n Extended Cwg/Fwd Admin? y External Device Alarm Admin? y Five Port Networks Max Per MCC? n Flexible Billing? n Forced Entry of Account Codes? y Global Call Classification? y Hospitality (G3U3 Enhancements?? y Hospitality (G3U3 Enhancements?? y		у упуупупп уууп	
IP Attendant Consoles? y (NOTE: You must logoff & login to effect the permission changes.)			
ESC-x=Cancel Esc-e=Submit Esc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refre	sh		•

7.3 Dialing Plan Overview

Fax calls were placed from the SR140 to the T1 through the Avaya GW, and from the T1 to the SR140 through the Avaya GW. The phone number dialed on the PSTN side determines if the Avaya GW will route the call to the H.323 or SIP trunk. When calling from the IP side via H.323 or SIP, the same phone number is used to route the call to the PSTN T1 connection.

To call the SR140 (H.323) from the PSTN connection: dial string 0300

To call the SR140 (SIP) from the PSTN connection: dial string 0400

Call PSTN T1 from SR140 using SIP or H.323: dial string 0000@10.128.30.34

7.4 Call Routing Configuration

Here are screens showing the dial plan setup that was used.

🚥 Telnet 10	0.128.30.3	4				- 🗆 ×
display dialpl	lan analysis	DIAL PLA	N ANALYSIS TAI	RLF	Page 1 of	12
		Lo	cation: all	Perc	ent Full:	2
Dialed String 00 01 03 04 8 9 * #	Total Ca Length Ty 4 ex 4 ex 4 ex 3 da 1 fa 2 fa 2 fa	ll Dialed pe String t t c c c c	Total Cal Length Type	L Dialed	Total Call Length Type	
ESC-x=Cancel H	Sc-e=Submit	Esc-p=Prev	Pg Esc-n=Next	Pg Esc-h=Help	Esc-r=Refre	sh 🔽



Telnet 10.128.30.3	4					- 🗆 ×
display aar analysis 1					Page 1 of	2
	AAR DIG	IT ANALYS	IS TABLE			
	L	ocation:	all		Percent Full:	2
Dialed String 111 2 222 3 4 444 5 6 7 8 9	Total Min Max 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Route Pattern 2 254 1 254 254 254 254 254 254 254 254	Call Type aar aar aar aar aar aar aar aar aar	Node Num	ANI Regd n n n n n n n n n n n n n n n n n n n	
ESC-x=Cancel Esc-e=Submit	Esc-p=Prev	Pg Esc−n	=Next Pg	Esc-	h=Help Esc-r=Refre	sh 🔽

Dialogic[®] Brooktrout[®] SR140 Fax Software with Avaya Communication Manager 5.0 and Avaya G350 Gateway Installation and Configuration Integration Note

C: \	Tel	net	10.	128	.30.34		- 🗆	×
dis	play	rout	te-pa	attei	rn 1	Page 1 of	3	
					Pattern	Number: 1 Pattern Name: IP to TDM		
	Grm	FRL	NPA	Pfv	Hon Tol	1 No. Insexted DCS/	IXC	
	No	1 112		Mrk	Lmt Lis	t Del Digits QSIG	1110	
						Dgts Intw		
1:	1	Ø	781	Ø		3 781911 n	user	
2						n	user	
3						n	user	
5							user	
Ğ:						 N	user	
	BC	ເຼບຄູງ	LUE	TSC	CA-TSC	ITC BCIE Service/Feature PARM No. Numbering	LAR	
	ย 1	ΖM	4 W		Kequest	Dgts Format		
4.						bothent		
2:	99	99	y 11			vest	none	
3	y y	y y	y n	n		rest	none	
4:	ýý	ýý	ý n	n		rest	none	
5:	Уý	Уý	уn	n		rest	none	
6:	уу	уу	y n	n		rest	none	
ESC	-x=C	ancel	l Ese	c-e=	Submit E	sc-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refr	esh	•

C:X	Tel	net	10.	128	.30.34		- 🗆 ×
dis	play	rou	te-pa	attei	rn 4	Page 1 of	3 🔺
					Pattern	Number: 4 Pattern Name: TDM to SIP	
	Cum	EDI.	NDA	Dr.	Hon Toll	SUCHNA N Secure SIPA N	TYC
	Nn	гиц	птп	Mrk	Lmt List	Del Digits OSIG	140
						Dgts Intw	
1:	4	3	781	Ø		3 781323 n	user
2:						n	user
3						n	user
4:						n	user
5.							user
0.						•	user
	BC	C VAI	LUE	TSC	CA-TSC	ITC BCIE Service/Feature PARM No. Numbering	LAR
	01	2 M	4 W		Request	Dgts Format	
						Subaddress	
1:	УУ	УУ	уn	n		rest	none
2	УУ	УУ	уn	n		rest	none
3	<u> </u>	<u> </u>	y n	n		rest	none
5	99	99	y n	n		rest	
6:	99	99	U D	11		vest	none
	2 9	2.9					
							_
ESC	-x=C	ance	l Esc	c-e=	Submit Es	c-p=Prev Pg Esc-n=Next Pg Esc-h=Help Esc-r=Refr	esh 🔼

8. Frequently Asked Questions

- "I'm configured as near as possible to this the sample configuration described in this document, but calls are still not successful; what is my next step?"
 - → Provide this document to your gateway support.
 - → Ensure T.38 is enabled on the gateway.
 - → Confirm that basic network access is possible by pinging the gateway.
- "How do I obtain Wireshark traces?"
 - ➔ The traces can be viewed using the Wireshark network analyzer program, which can be freely downloaded from <u>http://www.wireshark.org</u>.
 - ➔ To view the call flow in Wireshark, open the desired network trace file and select "Statistics->VoIP Calls" from the drop down menu. Then highlight the call and click on the "Graph" button.