Fuze Recommends

Fuze Recommends, is a beta technical partner project from Fuze where recommendations for hardware and or software can be made and published by the vendor of equipment that has been found to operate within Fuze's recommended configuration guidelines.

The following configuration guidelines for these third-party services have been recommended as being compatible with Fuze existing SIP requirements.

Note: Fuze does not support Third Party Services so any subsequent configuration questions or issues must be directed to the third-Party vendor's Support Services.

Note: Fuze is subject to change connectivity requirements without notice and without further validation.

Note: The customer is responsible for maintaining the security of the device and supplied credentials. Fuze is not liable for any subsequent costs resulting from misconfiguration.

Algo contact information

<u>info@algosolutions.com</u> – Sales and product questions <u>support@algosolutions.com</u> – Tech Support on Products

Document Control				
Fuze Recommends - Algo Configuration Guidelines for Fuze				
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Logging into the Algo

- 1. Log into the web interface by typing the device's IP address in the web browser. For device-specific instructions to discover the IP address, check its User Guide, typically supplied with the unit or use the Algo Network Device Locator.
- 2. Enter the default password (algo)

	8301 Paging Adapter & Scheduler	
Welcome to the Algo 8301 Paging Adapter & Scheduler		
Setting up your Paging Adapter & Scheduler:		
Step 1: Configure your Paging Adapter & Scheduler		
Log in with the default password and use the Basic Settings pages to set up the I	basic information.	
Step 2: Check network settings (Optional)		
Use the Network page under the Advanced Settings tab to change network settin IP address, Mask, and Gateway to the device.	ngs. The default setting for the device is to obtain its IP address from a DHCP server. Contact your Network System administrator if you plan to assign a static	
Step 3: Secure your Paging Adapter & Scheduler (Optional)		
Use the Admin page under the Advanced Settings tab to change the administrato Changing the password is extremely important if the device is directly connect	or password. ted to a public network.	
Step 4: Register your Paging Adapter & Scheduler (Optional)		
Please register your product using the link below:		
http://www.algosolutions.com/register		
Registration ensures your access to the latest upgrades to this product and impo	rtant service notices.	
Login		
Password (default: algo)	l lonin	
Status		
Status Device Name SIP Registration	algo-5001 [Gatessian (2007)/0280-02700] Page 20 Scorecential (Education (2007)/0280-02700)	
Status Device Name SIP Registration	algo-3301 Pege Successful (Entansion DENTTr68x-s229) Ring #2 Successful (Entansion DENTTr68x-s229) Min	
Status Device Hame SIP Registration Call Status	algo-8301 Page Successful (Botansion DENTTHERes9270) Ray #2 Successful (Extansion DENTTHERes9281) 1de Extansion DENTTHERes9281)	
Status Device Tame SIP Registration Call Status Procy Status Devictories Status		
Status Device Name SB Regutation Call Status Proxy Status Provisioning Status Muc	algo-8301 Pege Successful (Extension DBMTTHRExr3270) Ring #2 Successful (Extension DBMTTHRExr3270) Idle Single proxy mode Dtabled 00737exr40fd3100	
Status Device Tame SIP Registration Call Status Provy Status Provisioning Status MAC Device Tame Status	algo-301 Biocrearful (Entersion DENTTHREx=0270) Ring #2 Saccearful (Entersion DENTTHREx=0270) Idle Engle proxy mode Diabled 0022 ecc96-3020 102 128 - 30202 108 118 1	
Status Device Name SIP Registration Call Status Provisioning Status MAC IPv4 Status TD Status TD	algo-5001 Beceaseful (Entersion DSUT/WSU-6270) Page 2 Soccessful (Entersion DSUT/WSU-6270) Ide (Entersion DSUT/WSU-6270) Ide Soccessful (Entersion DSUT/WSU-6270) Ide (Dubled Doubled Duabled 0022eec09-63200 192.66.1.24/2/C, detrayr 192.168.1.1 mbr br Ent-077306 16 10	
Status Device Itame SIP Regutation Call Status Providening Status Providening Status MAC Director Status MAC Director Status MAC Director Status	algo-5301 Page Successful (Extension DEMT/PBR0-9270) (Extension DEMT/PBR0-9270) (Extension DEMT/PBR0-9270) 10/ Extension DEMT/PBR0-9231) 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/	
Status Status Cali Status Providence Status Providence Status Providence Status MAC IPv4 Status MAC IPv4 Status MAC IPv4 Status IPv4 Status IPv4 Status IPv4 Status IPv4 Status IPv4 IPv4 IPv4 IPv4 IPv4 IPv4 IPv4 IPv4	algo-301 Biocenselul (Extension DSHTTHREx=3270) Rig #2 Sinccenselul (Extension DSHTTHREx=3251) Idle Single prexy mode (Extension DSHTTHREx=3251) Diabed 0022 exc0961302 (Extension DSHTTHREx=3251) 192.166.1.247/24, Greenvy: 192.166.1.1 mc: Lockscic237:99:19 Mon Sep 13 H-48Hr #207 2021 Mon Sep 13 H-48Hr #207 2021	
Status Device Name SDF Registration Call Status Provisioning Status MAC Device Name Switch Port ID Date / Time Net Scheduld Event Machard Macha	algo-5001 Beceasedul (Edwarden DENT/WEN-6270) Page 2 Secceasedul (Edwarden DENT/WEN-6270) Tale (Edwarden DENT/WEN-6280) Single praxy mode (Edwarden DENT/WEN-6280) Diabled (Edwarden DENT/WEN-6280) Diabled (Edwarden DENT/WEN-6280) 101 (Edwarden DENT/WEN-6280) 102 (Edwarden DENT/WEN-6280) 103 (Edwarden DENT/WEN-6280) 104 (Edwarden DENT/WEN-6280) 105 (Edwarden DENT/WEN-6280) 104 (Edwarden DENT/WEN-6280) 105 (Edwarden DENT/WEN-6280) 105 (Edwarden DENT/WEN-6280) 106 (Edwarden DENT/WEN-6280) 107 (Edwarden DENT/WEN-6280) 108 (Edwarden DENT/WEN-6280) 109 (Edwarden DENT/WEN-6280) 109 (Edwarden DENT/WEN-6280) 109 (Edwarden DENT/WEN-6280) 109 (Edwarden DENT/WEN-6280) 100 (Edwarden DENT/WEN-6280) 100 (Edwarden DENT/WEN-6280) 100 (Edwarden DENT/WEN-6280)	
Status Status Status StP Registration Call Status Provisioning Status Provisioning Status MAC IPV4 Status Provisioning Status MAC IPV4 Status Status Status MAC IPV4 Volume Status Statu	algo-500: Recented Page 2 Seccented (Entersion DSUTPRE-s270) Recented DSUTPRE-s270) Ring P2 Seccented (Entersion DSUTPRE-s270) Bio (Entersion DSUTPRE-s270) Ide (Entersion DSUTPRE-s270) Diabled (Dabled Doubled 0022ee09+03:00 192.168.1.24(2/2, Gatesay: 192.168.1.1 met S25:02:00 Mor Sep 13 14:58-17 E07 2021 No Events Schedied Natzer Mode, Ide Recents Schedied Matzer Mode, Ide Recents Schedied Matzer Mode, Ide Recents Schedied	

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****UPGRADE THE FIRMWARE to 3.4.4****

https://www.algosolutions.com/firmware-downloads/

Pick your IP endpoint and follow the instructions for the firmware currently installed. **Note:** This process can take up to 45 minutes.

Note: You may be asked to reboot the unit during this process, but you don't need to until the end, However you will need to do it at least once.

Advanced Settings – Admin

Here you will:

- 1 Set 'Force Strong Password' to Enabled (Optional, If you choose not to do this make sure you are still setting a strong password) Algo suggests 10 characters. 1 lower case, 1 upper case, 1 number, 1 special character
- 2 Set 'Allow Secure SIP Passwords' to Enabled.
- 3 Set a strong password to protect the device. This is mandatory to save the page

These are required for a secure unit. Once complete you can verify by downloading the configuration and noting the passwords are encrypted. See **System - Maintenance** section below.

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	8301 Paging Adapter & Scheduler	
Status Basic Settings Additional Features Scheduler Advanced S	ettings System Lagout	
Network Admin Users Time Provisioning Advanced Audio	Advanced SIP Advanced Multicast	
Admin Satting		
- Admin Password		1
Old Pessenord		
Password		Cot Unit Dessured
Confermation		Set Unit Password
General		l
Device Name (Hostname)	algo-6001	
Introduction Section on Status Page	Son Corr	
Show Status Section on Status Page when Logged Out	Bon Car	
Display Switch Port ID on Status Page	Conf (in	
Web Interface Session Timeout	theat (i) Automatically log out web interface after period of inactivity.	
Play Tone at Skartup	Christeled Rokated (Rokate can be provided at darburg to continue that the devices have bounded. This can be useful when teating or configuring a divolor, but might next be described Prote provide constrained to an ordering amplification and paging system.	
- Log Settings		
Log Level	OError (Lowest) Oliotice ("Event") Info ("SIP") Obebug (Highest)	
Log Method	RLocal Olietwork OBoth	
Management		1
Web Interface Protocol	Bodh HTTP and HTTPS CHTTPS Only	
Force Strong Password	Strabled Obsabled	
Allow Secure SIP Resowords	Echabled COsabled @Jather enabling this option, it is recommended to re-enter S2P passwords and their corresponding realm to store the passwords securely.	Set Security
Simple Network Management Protocol		
SNMP Support	OEnabled #Disabled @Downlad MIS No <u>http:</u>	
- API Support		
RESTILI API	Otherabled @Disabled @Isecure API for remote access & control via HTTP. Contact Algo Support for more information	
System Integrity		
System Integrity Checking	Chould de Travalled On the status verifice installes notion packages to insure they have not been tangened with. Exobility this fasture may cause rebuilt and appades to take 30 seconds larger. Verification insults can be found on the Status page.	
- Synt-Apps Sk-Announce Support The 3A-Announce feature cannot be used when Multicast Master mode or Poly	um molo is waldref. To malite Sil-Antonance male, set National Marie Sa Nation in "Salar Lattings - <u>Suldward"</u>	
InformaCast		
InformaCast Support	Enabled #Disabled #This feature requires a valid license to be activated. Please contact sales((bilgosolutions.com for assistance.	
	al Sau	

MAKE SURE TO CLICK SAVE – Failure to do so will result in you losing what you just set.

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Basic Settings – SIP

Note: This is for using the Algo endpoint as a paging extension. Here you will:

- Enter the Fuze supplied URL in the SIP Domain (Proxy Server) field
- Enter the SIP peer name in the page Extension and Authentication ID.
- Enter the password in the Authentication Password field. These credentials come from Fuze.
- Enter the Realm which is asterisk

כ	8301 Paging Adapter & Scheduler	Firmware: 3.4
Status Basic Settings Additional Features Scheduler	Advanced Settings System Logout	
SIP Features Multicast		
SIP Settings		
SIP		
(i) This section allows the SIP server information & account created confirm successful registration.	tentials to be entered. This information should be obtained from your telephone system administrator or hosted account provider. After saving these settings, see the Status tab to	
SIP Domain (Proxy Server)	border-alt-vap.sip.thinkingphones.net	
	UDefault port is \$660. To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:\$070, or 192.168.1.10:\$080.	
Ring/Alert Mode	Offinitor "Ring" event on registered SIP extension	
Dana Extension	DEMITUDBY 40770	
Authentication ID	Desiring of variable and the second s	
Addiendcadon ID	Damitheoryasin	
Authentication Password		
Display Name (Optional)		<u> </u>
Realm	asterisk €IIf the realm is changed, then the password needs to be re-entered.	
The device will auto-answer any inbound call received on	this extension and provide a voice paging path (and multicast if configured).	
	× •	ave

MAKE SURE TO CLICK SAVE – Failure to do so will result in you losing what you just set.

Note: To use the Algo IP endpoint as a night bell make sure Monitor "Ring" event ···· is selected. If no Multicast is being used, you can enter the Ringer credentials here, otherwise move to





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Additional Features – More Ring Extensions (When using Multicast)

Next step is to add the Night bell/Ringer SIP credentials as the Ring Extension and set the appropriate Multicast Group if it is a Master unit.

0	8301 Paging Adapter & Scheduler	Firmware: 3.4.4
Status Basic Settings Additional	I Features Scheduler Advanced Settings System Logout	
Input/Output Emergency Alerts M	More Page Extensions More Ring Extensions	
More Ring Extensions		
This section allows additional extensi "Sales" line could have a different ring to	sions to be registered for the purpose of providing loud ringing alerts for more than one line. Unique ring tones can be selected for each line to allow them to be easily distinguished - for example a tone from a personal line. Appropriate call routing must be configured on your SIP phone system of course in order to trigger it to send calls to these different numbers.	
(1) The 8301 will detect inbound ring even	vents on these numbers and play the alerting tone until the inbound call stops ringing. It will not answer the calls in this mode.	
Note: Some SIP phone systems may	y not support this feature if they limit the number of extensions that can be registered on a single device.	
Ring Extension 2	Enabled Obisabled	
Extension	DSMITHPBX-39261	
Authentication ID	DSMITHP8X-x9261	
Authentication Password		
Display Name (Optional)		
Realm	asteriak	
Ring Tone	<use default="" ring="" tone=""></use>	
Multicast Zone	Zone 3 🗸	
Ring Extension 3	OEnabled Cisabled	
Ring Extension 4	OEnabled Cisabled	
Ring Extension 5	OEnabled Cisabled	
Ring Extension 6	OEnabled ©Disabled	
Ring Extension 7		
Ring Extension 8	Cenabled @Disabled	
Ring Extension 9		
Ring Extension 10	Cenabled Cenabled	

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Advanced Settings – Advanced SIP

You will need to

- Set Register Period (Seconds) to 360
- Set 'Standard' on SDP SRTP Offer
- Select Keep-Alive Method to Double CRLF
- Set the Keep-Alive Interval (seconds) to 30 This prevents premature NAT session timeout.

ALGO

Ivanced SIP Settings		
General		
SIP Transportation	Letter	
SIPS Scheme	Enabled	
Validate Server Certificate	CEnabled [®] Disabled [®] Disabled [®] Validate to 5D [®] server against common cartificate autorities. To validate against additional cartificates, use the "System > <u>File Hanven</u> " tab to upbad a Based or mode X589 continuate file in pern, zor, or zit himat to the 'unstructure' fideo.	
Force Secure TLS Version	Conabled *Disabled (Enable this option to require TLS connections to use TLSv1.2.	
SIP Outbound Support (RFC 5626)	CEnabled *Desbled @Truther this option to support best networking practices according to NIC 5026. This option should generally be enabled if the Algo device is being regulatored with a hould server of TLS is being used for SIP Transportation.	
Outbound Proxy		
Register Period (seconds)	360	
SRTP		
SDP SRTP Offer	Standard V	
SDP SRTP Offer Crypto Suite	AES_CM_128_HMAC_SHA1_60 V	
NAT		
Media NAT	INONE CICE OSTUN	
Server Redundancy		
server Recurdancy reacure (Murbple SIP Server Support)	Uprapred #Usabred	
Interoperability		
Keep-Alive Method	ONone Souble CRLF	
	() This setting will enable sending periodic CPLP messages for both UDP and TCP connections.	
Keep-Alive Interval (seconds)	30	
	Enabled Obsabled @Use sphemeral port number from outgoing SIP TLS connection instead of listening port number in SIP Contact and Via headers. This is useful to connect the device to some band SIP envires. We Astronia or PrevENITCH.	
Use Outgoing TLS port in SIP headers		
Use Outpoing TLS port in SIP headers Do Not Reuse Authorization Headers	CEnabled #Disabled @infine enabled, at SIP authorization information from the last successful request will not be reused in the next request.	

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Basic Settings – Features

Here you will:

ALGO

ALGO

- Set the paging to delayed, avoiding feedback in case the person paging is directly below a speaker. This is optional, but highly recommended.
- Set the output to match the impedance of the paging system. You will find settings for some common paging systems in the Paging adapter amplifier integration guide on the Algo website. Link provided below.
- Set the volume for Ring/Alert Volume and Page Volume as required
- Turn off the Page tone if you don't want to hear a tone before the page plays
- Set the Page timeout to 30 seconds or so to avoid long pages. If someone puts paging on hold or park this prevents an extraordinarily long page.

NOTE: The Output setting is different on all models that have an output (i.e. 8180 has a direct 600 Ohm Unbalanced output only).

Featurer Multimer		1
Peacures Munchast		1
tures		
bound Ring Settings		
These settings apply to events triggered by the Ring Extension(s) & Emergency Alerts sections. The Play/Loop/Stop buttons can also be used to test the device and set the appropriate volume level.	
ing/Alert Tone	warbie2-med wav V Play Loop Stop	
ing/Alert Volume	10 V Apply	1 Dec
ing Limit	No imit (R) ima = 6 seconds.	
nouna Page Settings		
age volume	[10 ▲ Ppty] (i) When in Slave mode, note that this is the default volume control for all audio received via multicast.	
age Mode	Ope-way Otwo-way @Delayed @"Delayed" mode stores the page audio temporarily, and then broadcasts it after the call is hung-up. This can help avoid feesback.	
age Timeout	30 seconds (i) Maximum page timeout in Delayed mode is 5 minutes.	
age Tone	Choop: V Output, or coston upstaded this. The other pre-installed time lites all costain solence at the end in under to generate ring "cadence" of 6 seconds. This shares are thick the upper part for reverse incoseds at the start of a page.	
.722 Support	Enabled Objabiled (Applies to codec used during SIP negotiation only, Multicast codec is configured separately.	
asscode Protected Page Extensions	CEnabled #Orsabled @Est all page extensions to require the caller to enter a passcode. Setting a passcode helps prevent unintentional pages. When prompted, the caller must enter the passcode followed by the 4 sign before the page can be accepted. The passcode primity will be played before any other action.	
TMF Detection Type	OAuto @RTP Telephony Event (RFC 4733) ORTP In-band OSIP INFO	
udio		
mbient Noise Compensation	Cenabled @Disabled @JAdumatically adjust appear level in response to ambient noise level detected prior to the start of each call. Ambient noise level is detected by a separate remute device.	
utomatic Gain Control (AGC)	@Enabled Objeabled @Automatically maximize level of voice received from calling phone in order to make page volume more consistent.	
ine Out' Analog Output Level	(GBBm 600 obm (0.775 Virms)) ())This activity controls the maximum voltage level available on the "Line Qut" availage acids port. To achieve this maximum level, ablo set the volume control to the "Line Qut" and any date the Acid Chanare (lational) is increase the level end encoded from the farend phone when paging.	Set per Algo paging adapter integration guide – Link below

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Advanced Settings - Network

Enter QOS values to ensure voice priority. Once you click save you will be prompted to reboot. QOS Values are in the image below and are consistent across all Algo devices.

	6301 Paging Adapter & Scheduler	Firmwarei
Status Basic Settings Additional Features Scheduler	Idvanced Settings System Logout	
Network Admin Users Time Provisioning Advance	d Audio Advanced SIP Advanced Multicast	
atwork Sattings		
Common		
Internet Protocol	IPv4 only	
Supersede DNS provided by DHCP	CEnabled *Disabled	
IPv4		
IPv4 Method	Ostatic @DHCP	
802.1Q Virtual LAN		
VLAN Mode	ONone OManual ®Auto	
802.1X Port-based Network Access Control		
802.1X Authentication	CEnabled ®Disabled	
Differentiated Services		
SIP (6-bit <u>DSCP</u> value)	26 (I) values range from 0 to 63	
RTP (6-bit <u>DSCP</u> value)	66 @Valid values range from 0 to 63	
RTCP (6-bit QSCP value)	26 @Valid values range from 0 to 63	
DNS		
DNS Caching Mode	0 (abided OSSP OAII (0):51° mode, only the results of DNS queries for 559 requests will be cached. In "AII" mode, the results of all DNS queries will be cached.	
		d Saus

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Advanced settings – Provisioning

This should be disabled unless you intend to maintain a provisioning server for these devices. **Note:** Fuze does not offer this service

ALGO	8301 Paging Adapter & Scheduler	Pirmware: 3.4.4
	Status Back Settings Additional Faultrees Schedular Advanced Settings System Laport.	
	Nativork Admin Users Time Provisioning Advanced Audio Advanced SUP Advanced Naticaat	
	Provisioning Settings	
	- Mode	
	Provisioning Made Climatited	
	L	
	of Same	

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Status

Verify your settings. You should see Successful for Page and if applicable Ringer Here you can see the call status (Recording, paging, ringing)

You can also see the Multicast Mode in real time.

ALGO

	, and the second s			
Status Basic Settings Additional Features Scheduler Advanced Set	ttings System Logout			
Device Status				
Welcome to the Algo 8301 Paging Adapter & Scheduler				
Setting up your Paging Adapter & Scheduler:				
Step 1: Configure your Paging Adapter & Scheduler				
og in with the default password and use the Basic Settings pages to set up th	he basic information.			
itep 2: Check network settings (Optional)				
Jse the Network page under the Advanced Settings tab to change network se IP address. Mask, and Gateway to the device.	ttings. The default setting for the dev	vice is to obtain its IP ad	iress from a DHCP server. Contact your Network System administrator if you pl	an to assign a static
itep 3: Secure your Paging Adapter & Scheduler (Optional)				
Use the Admin page under the Advanced Settings tab to change the administr Changing the password is extremely important if the device is directly conn	ator password. ected to a public network.			
Step 4: Register your Paging Adapter & Scheduler (Optional)				
fease register your product using the link below:				
http://www.algosolutions.com/register				
Registration ensures your access to the latest upgrades to this product and im	portant service notices.			
Status				
Device Name	algo-8301			
SIP Registration	Page Ring #2	Successful Successful	(Extension DSMITHPBX:v9270) (Extension DSMITHPBX:v9261)	
Cell Status	Idle			
Proxy Status	Single proxy mode	le .		
Provisioning Status	Disabled			
MAC	00:22:ee:09:63:2	20		
IPr4	192.168.1.242/24	4. Gateway: 192.168.1.1		
Switch Port ID	mac 3c:5e:c3:37:	:59:19		
Date / Time	Mon Sep 13 14:08	8:57 EDT 2021		
Next Scheduled Event	No Events Schedu	Jed		
	Master Mode, Idle			
Multicast Mode				
Multicest Mode Valume	Page Volume: 10 Ring Volume: 10	(0dB) (0dB)		

System – Maintenance

Here is where you can download the configuration to verify the passwords are encrypted. You can also upload a previously saved config.

Status Basic Settings Additional Features Scheduler Advance	ted Settings System Logout	
Maintenance Firmware File Manager Tones System Log	Credits About	and the second se
System Maintenance		
Backup / Restore Configuration		
Download Configuration File	Jownload	
Restore Configuration File	Choose File No file chosen Trestore	
Restore Configuration to Defaults	Note: Contract Contra	
Backup / Restore All User Files Backup in zip format includes configuration file and all uploaded files.		
Download Backup Zip File	4 Download	
Restore from Backup Zip File	Choose File No file chosen Testore	
Restore All Settings and Files to Defaults	Read Restore Defaults and Delete Files () All preloaded and uploaded files, including tone files, will be deleted.	
Reboot		
Reboot the device	C2 Reboot	

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Additional information and Troubleshooting steps

Advanced Settings – Advanced Audio

In some cases, you may want to increase the Jitter buffer to correct network latency. You can also enable DTMF passthrough here to Play DTMF tones during a SIP Call to allow interoperability with DTMF-controlled multi-zone amplifiers

ALGO		8301 Paging Adapter & Scheduler	Firmware: 3.4.4
	Status Basic Settings Additional Features Scheduler Advance	d Settings System Logout	
	Network Admin Users Time Provisioning Advanced Audio	Advanced SIP Advanced Multicast	
	Advanced Audio Functions		
	Functions		
	Dynamic Range Compression (DRC)	Otnabled ®Disabled @Compress the dynamic range of page audio to increase fourthess.	
	Jitter Buffer Range (milliseconds. 10 ~ 500)	100 ()Adds more buffering if necessary to correct for inconsistent delays on the network. Use of the lowest value generally is recommended.	
	Generate In-Band OTMF Tones	Enabled Obsabled (#Play DTM* tones during a SIP Call to allow interoperability with DTM*-controlled multi-uone amplifiers	
	Always Send RTP Media	Enabled Obisabled	
	··· Audio Filters		
	Speaker Filter	None It is an invited by audio codecs.	
	Speaker Noise Filter	CEnabled @Disabled @Inappressive Bits order Elliptical Filter (fc = 145Hz)	
	Microphone Filter	None V	
	Nicrophone Noise Filter	⊖Enabled @Aggressive 8th order Eliptical Filter (Itc = 145Hz)	
	L		
			✓ 5 ave

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For connections to specific common paging systems

https://www.algosolutions.com/wp-content/uploads/2019/11/Paging-Adapter-Amplifier-Integration-Guide.pdf

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