

Avaya Solution & Interoperability Test Lab

Application Notes for Algo 8180 SIP Audio Alerter with Avaya IP Office - Issue 1.1

Abstract

These Application Notes describe the configuration steps required for Algo 8180 SIP Audio Alerter to interoperate with Avaya IP Office. Algo 8180 SIP Audio Alerter is a SIP-based device that can register with Avaya IP Office as two separate SIP endpoints, one for loud ringing and one for voice paging.

Readers should pay attention to section 2, in particular the scope of testing as outlined in **Section 2.1** as well as the observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps required for Algo 8180 SIP Audio Alerter to interoperate with Avaya IP Office. Algo 8180 SIP Audio Alerter is a SIP-based device that can register with Avaya IP Office as two separate SIP endpoints, one for loud ringing and one for voice paging.

For loud ringing, Algo 8180 SIP Audio Alerter can be configured to ring whenever the associated desk phone receives an incoming call. The loud ringing is useful for users that require louder ringing than what is available from the desk phone. The simultaneous ringing at the desk phone and Algo 8180 SIP Audio Alerter is accomplished via the Avaya IP Office Mobile Twinning feature.

For voice paging, Algo 8180 SIP Audio Alerter can auto-answer an incoming call and allow the caller to broadcast audio over the Algo 8180 SIP Audio Alerter speaker.

2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually placed to the loud ringing and voice paging extensions, with call controls such as hold/resume, unattended, attended transfer and conference performed from the caller.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing. The loud ringing feature testing included registration, internal and external caller, interactions with the voice paging extension, and interactions with desk phone features such as coverage, call forwarding, and do not disturb. The voice paging feature testing included registration, media shuffling, G.722, internal and external caller, interactions with the loud ringing extension, and interactions with caller actions such as drop, hold/reconnect, blind/attended transfer, and blind/attended conference.

The serviceability testing focused on verifying the ability of Algo 8180 SIP Audio Alerter to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet cable to the device.

2.2. Test Results

The objectives outlined in **Section 2.1** were verified. All test cases passed, the following observations were made during the compliance testing:

- The call between Algo 8180 Page and Avaya phones (H.323, SIP, and digital) cannot be transferred in attended mode by Avaya phone to SIP phone. This feature is currently not supported on Algo 8180.
- A one way audio issue was encountered when Algo 8180 Page is configured with twoway Talkback. The issue will be fixed in the next release of Algo 8180, contact Algo for a firmware upgrade to correct this issue. With the current release only one-way alerting is supported, which is the primary function of this device.

2.3. Support

Technical support on Algo 8180 SIP Audio Alerter can be obtained through the following:

- Phone: +1 604 454 3792
- Web: http://www.algosolutions.com/support/support.html
- Email: support@algosolutions.com

3. Reference Configuration

Figure 1 illustrates the test configuration used during the compliance testing between the Avaya IP Office and Algo 8180 SIP Audio Alerter. Algo 8180 communicated with IP Office through Avaya switch with Power over Ethernet (PoE) and registered with Avaya IP Office as two separate SIP endpoints, and the extensions used for the testing: one for Page and one for Loud Rigner. The PRI T1 trunk was also configured to connect from IP Office to PSTN for test cases off-net via PRI T1 trunk.

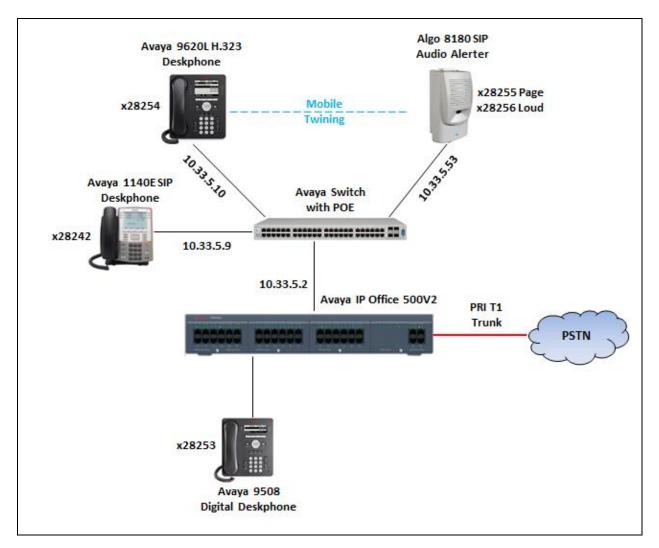


Figure 1: Test Configuration Diagram

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment	Software
Avaya IP Office 500V2	9.0.3.941
Avaya H.323 9620L IP Deskphone	3.220A
Avaya H.323 9650C IP Deskphone	3.220A
Avaya 1140E SIP Phone	4.3
Avaya 9508 Digital Phone	0.55
Algo 8180 SIP Audio Alerter	2.2

5. Configure Avaya IP Office

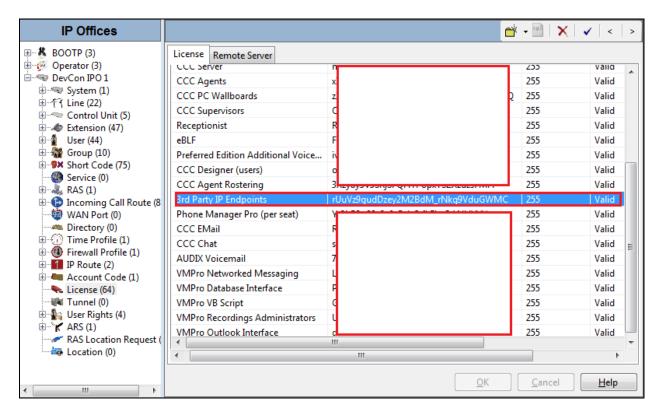
This section provides the procedures for configuring Avaya IP Office. The procedures include the following areas:

- Verify IP Office license
- Obtain LAN IP address
- Administer SIP registrar
- Administer SIP extensions
- Administer SIP users
- Administer Internal Twinning

5.1. Verify IP Office License

From a PC running the Avaya IP Office Manager application, select **Start** \rightarrow **Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the Manager application. Select the proper IP Office system, and log in using the appropriate credentials.

The **Avaya IP Office Manager** screen is displayed. From the configuration tree in the left pane, select **License**, the list of license displayed in the right panel. Verify that the **3rd Party IP Endpoints** status is "**Valid**".



5.2. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** to display the DevCon IPO 1 screen in the right pane. Select the **LAN1** tab, followed by the **LAN Settings** sub-tab in the right pane. Make a note of the **IP Address**, which will be used later to configure Algo. Note that IP Office can support SIP extensions on the **LAN1** and/or **LAN2** interfaces, and the compliance testing used the **LAN1** interface.

IP Offices	Image: DevCon IPO 1* Image: Market of the second sec
BOOTP (3)	System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events SMTP
Operator (3) DevCon IPO 1	LAN Settings VoIP Network Topology
	5
DevCon IPO 1	IP Address 10 . 10 . 97 . 36
⊞	IP Mask 255 255 255 240
Entroi Unit (5)	
🗄 ··· 🛷 Extension (47) 🖶 ··· 🐐 User (44)	Primary Trans. IP Address 0 0 0 0
	RIP Mode
🗄 🥵 Short Code (75)	None
Service (0)	Enable NAT
🗄 📲 RAS (1) 🗄 🕆 🏠 Incoming Call Route (8	Number Of DHCP IP Addresses 1
WAN Port (0)	
Directory (0)	DHCP Mode
🗉 💮 Time Profile (1)	Server Client Dialin Disabled Advanced
Firewall Profile (1)	
ia∎IP Route (2) ia∎ Account Code (1)	
License (64)	
🗄 📲 User Rights (4)	
RAS (1)	
Location (0)	
ing cocoron (o)	OK Cancel Help
	<u>O</u> K <u>Cancel H</u> elp

5.3. Administer SIP Registrar

Select the **VoIP** sub-tab. Make certain that **SIP Registrar Enable** is checked, as shown below. Enter a valid **Domain Name** for SIP endpoints to use for registration with IP Office. In the compliance testing, the **Domain Name** was left blank, so the SIP endpoints used the LAN IP address for registration.

IP Offices		evCon IPO 1*	📸 - 🗐 🗙 🖌 < .	>
 BOOTP (3) 		email Telephony Directory Se	ervices System Events SMTP SMDR Twin	•
🖃 🖘 DevCon IPO 1	LAN Settings VoIP Network Topolo	9У		
System (1) DevCon IPO 1	H323 Gatekeeper Enable		A	
E f Line (22)				
E. Control Unit (5)	Auto-create Extn	Auto-create User	H323 Remote E	
🗄 🛷 Extension (47)			=	
🗄 📲 User (44)				
⊞∰ Group (10) ⊞	SIP Trunks Enable			
Short Code (75)	SIP Registrar Enable			
🗄 📲 🗛 RAS (1)	Auto-create Extn/User		SIP Remote Extr	
🖶 😰 Incoming Call Route (8)	Auto-create Extri/ oser			
WAN Port (0)	Domain Name			
		UDP UDP Port	5060 Remote UDP Port 50	
Firewall Profile (1)		UDP ODP ODP Port		
	Layer 4 Protocol	TCP TCP Port	5060 Remote TCP Port 50	
Account Code (1) License (64)		TLS TLS Port	5061 Remote TLS Port 50	
Tunnel (0)				
🗄 📲 User Rights (4)	Challenge Expiry Time (secs)	0		
🗄 🖓 🖌 🖌 🕂 🕂 🗄				-
RAS Location Request (0)			4	
Location (0)				
			<u>O</u> K <u>C</u> ancel <u>H</u> elp	

5.4. Administer SIP Extensions

From the configuration tree in the left pane, right-click on **Extension**, and select New \rightarrow SIP **Extension** (not shown) from the pop-up list to add a new SIP extension. For **Base Extension**, enter the voice paging extension "28255". Retain the default values in the remaining fields.

IP Offices	×××			SIP Extension: 8010 28255	📥 - 🔛	X ✓ < >
⊞ 🗱 BOOTP (3)	Extn	VoIP	T38 Fax			
Operator (3) DevCon IPO 1				8010		*
System (1)	Extens	ion Id		8010		
DevCon IPO 1	Base E	xtension		28255		
🗄 17 Line (22)	C.II.	D: 1 T				
E Control Unit (5)	Caller	Display T	ype	On	Ψ.	
	Reset \	/olume A	fter Calls			
Short Code (75)	Device	Туре		Unknown SIP device		=
Service (0)						_
🗄 📲 RAS (1)	Locati	on		Automatic	•	
Incoming Call Route (8) WAN Port (0)	Modu			0		
Directory (0)		ic i				
🗉 💮 Time Profile (1)	Port			0		
Firewall Profile (1)	Force	Authoriza	tion			
ie∎ IP Route (2) ie∎ Account Code (1)						
License (64)						
Tunnel (0)						
🗄 📲 User Rights (4)						
ARS (1)						
Location (0)						*
				<u></u> K	<u>C</u> and	cel <u>H</u> elp

Select the **VoIP** tab, and retain the default values in all fields. Repeat this section to add additional SIP extensions as desired. In the compliance testing, one SIP extension "**28255**" was created for voice paging, and one SIP extension "**28256**" was created for loud ringing.

IP Offices	XX	SIP Extension: 8010 28255	🖆 🕶 🛛 🗙 🖌 < >
BOOTP (3) Operator (3) DevCon IPO 1 System (1) DevCon IPO 1 Sorter (2) Control Unit (5) Control Unit (5) Store (4) Store (4) Sorter (0) Dover (1) Dover (2) WAN Port (0) Directory (0)	Extn VoIP T38 Fa IP Address Codec Selection	x 0 . 0 . 0 . 0 System Default Unused Unused Selected G.711 ULAW 64K G.712 ALAW 64K G.722 64K G.723.1 6K3 MP-MLQ S>>> S>>>	 VoIP Silence Suppression Local Hold Music Allow Direct Media Path Re-invite Supported Codec Lockdown
License (64) ∰a Tunnel (0) ⊞∰a User Rights (4)	Reserve License	None	
ARS (1) ARS Location Request (0) Control (0)	Fax Transport Support	None v	
Cocation (0)			K <u>C</u> ancel <u>H</u> elp

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5.5. Administer SIP User

From the configuration tree in the left pane, right-click on **User**, and select **New** (not shown) from the pop-up list. Enter desired values for Name and Full Name. For Extension, enter the first SIP base extension from **Section 5.4**.

IP Offices	. 2	Algo 8180 Page: 28255* Algo * ■ × × × × ×								
B & BOOTP (3) B 🚧 Operator (3)	User	Voicemail	DND	Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Record	ing 🔹 🕨
Operator (3) DevCon IPO 1 System (1) ✓ System (1) ✓ ✓ Control Unit (5) ✓ Control Unit (5) ✓ Control Unit (5) ✓ ✓ Control Unit (7) ✓ ✓ Control Unit (7) ✓ ✓ System (1) ✓ ✓ Service (0) ✓ ✓ ✓ Service (0) ✓ ✓ Service (0) ✓ ✓ ✓ Service (0) ✓ ✓ ✓ Service (0) ✓ ✓ ✓ ✓ Service (0) ✓ ✓ ✓ ✓ ✓ ✓ ✓	Accour Full Na Extensi	ord m Password nt Status me		28255 Enable						
🗉 🕧 Time Profile (1)	Locale									
	Priority	r		5						
🗄 📲 Account Code (1)	System	Phone Righ	nts	None						•
₩ Tunnel (0) ⊕\$_ User Rights (4)	ACCS	Agent Type		None						
ARS (1) RAS Location Request (0)	Profile			Basic U	ser					-
Location (0)				Rece	eptionist					
	•			Enal	ble Softphone III					

Select the **Telephony** tab, followed by the **Supervisor Settings** sub-tab, and enter a desired **Login Code**. Repeat this section to add a new user for each SIP extension from **Section 5.4**. In the compliance testing, user "**28256**" was created for loud ringing, and user "**28255**" was created for voice paging.

IP Offices	Algo 8180 Page: 28255*	📸 • 🔛 🗙 🖌 < >
 BOOTP (3) Operator (3) ■ DevCon IPO 1 ■ System (1) 	User Voicemail DND Short Codes Source Numbers Telephony Forward Call Settings Supervisor Settings Multi-line Options Call Log TUI	arding Dial In Voice Recording
Gradin (2) Gradin (2) Gradin (2) Gradin (2) Gradin (47) Gradin (47) Gradin (44)	Login Code •••••	 Force Login Force Account Code
	Monitor Group <none> Coverage Group <none> Status on No-Answer Logged On (No change)</none></none>	 Incoming Call Bar Outgoing Call Bar
Contract Call Route (8) WAN Port (0) Contract Contrac	Reset Longest Idle Time	 Inhibit Off-Switch Forward/Tran Can Intrude
General Profile (1) General Provide (2) General Account Code (1) General Code (1) General Code (4) General Code (0)	External Incoming	Cannot be Intruded Can Trace Calls CCR Agent
Ser Rights (4) ✓ ARS (1) ✓ ARS (1) ✓ ASL coation Request (0) ✓ Location (0)	After Call Work Time (secs) System Default (10)	 Automatic After Call Work Deny Auto Intercom Calls
(V)	٠ [

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5.6. Administer Internal Twinning

From the configuration tree in the left pane, select the desk phone user that will be associated with the loud ringing user. In this case, desk phone user "**Extn28232**".

IP Offices	×			E	tn282	32: 28232			- 10	· 😬 🗙	✓ <	>
28209 Extn28209	User	Voicemail	DND	Short Co	des Sou	urce Numbers	Telephony	Forwarding	Dial In	Voice Record	ding 🔳	•
28210 Extn28210 28211 Extn28211 28212 Extn28212	Name			Ex	n28232					1		
28213 Extn28213 28215 Extn28215	Passw	ord										
	Confir	m Password										
28225 Extn28225 28226 Extn28226	Accou	nt Status		Er	abled							Ξ
28227 Extn28227 28229 Extn28229	Full N	ame										
28230 Extn28230 28231 Extn28231	Extens	ion		28	232							
28232 Extn28232	Email	Address										
	Locale											
	Priorit	у		5								
28243 Extn28243	System	n Phone Righ	nts	N	ne						•	
28245 Extn28245	ACCS	Agent Type		N	ne							
	Profile			Ba	sic User						•	
					Receptio	onist						
- 28254 Extn28254 - 2rr 28235 IVR 28235	•				Enable S	oftphone III						-

Select the **Mobility** tab, and check **Internal Twinning**. For the Twinned Handset, select the strobe extension user from Section 5.5. Retain the default values in the remaining fields. Note that with the Internal Twinning configuration, the Algo extension 28257 will be acting like a secondary extension of the extension 28232 which is configured as primary and a direct call to the secondary will always get busy. This is the design intent of the Internal Twining feature in IP Office. In order to place a direct call to the Algo strobe light extension, do not configure it twinned with a deskphone.

IP Offices	📝 Extn28232: 28232* 📑 👻 🖌 🗸 🗠 😒
	Dial In Voice Recording Button Programming Menu Programming Mobility Group Membership Announcement Internal Twinning Internal Twinned Internal Twinned Internal Twinned Internal Twinned Maximum Number of Calls Internal Twinned Internal Twinned Internal Twinned
	 Twin Bridge Appearances Twin Coverage Appearances Twin Line Appearances Mobility Features Mobile Twinning
	Twinned Mobile Number (including dial access code) 28257 Twinning Time Profile
	Mobile Dial Delay (secs) 0 Mobile Answer Guard (secs) 0 Hunt group calls eligible for mobile twinning

6. Configure Algo 8180 SIP Audio Alerter

This section provides the procedures for configuring Algo 8180 SIP Audio Alerter. The procedures include the following areas:

- Launch web interface
- Administer configuration

6.1. Launch Web Interface

Access the SIP Audio Alerter web-based interface by using the URL "http://ip-address" in an Internet browser window, where "ip-address" is the IP address of the SIP Audio Alerter. Note that the default IP address of the SIP Audio Alerter is 192.168.1.111. The **Welcome to the Algo 8180 SIP Audio Alerter Control Panel** screen is displayed, as shown below. Log in using the appropriate credentials.

ALGO	8180 SIP Audio Alerter Control Panel	Firmware: 2.3.20
Welcome to the Algo	8180 SIP Audio Alerter Control Panel	
Setting up your SIP Audio	lerter:	
Step 1: Configure your SI	P Audio Alerter	
Log in with the default pas	sword and use the Basic Settings pages to set up the basic information.	
Step 2: Check network se	ttings (Optional)	
	er the Advanced Settings tab to change network settings. The default setting for the dev r. Contact your Network System administrator if you plan to assign a static IP address, M	
Step 3: Secure your SIP /	udio Alerter (Optional)	
A	the Advanced Settings tab to change the administrator password. is extremely important if the device is directly connected to a public network.	
Step 4: Register your SIP	Audio Alerter (Optional)	
Please register your produ	t using the link below:	
http://www.algosolutions.	<u>om/8180reg</u>	
Registration ensures your	access to the latest upgrades to this product and important service notices.	
Login		
Password (default: algo)	
	Login	
۱ <u></u>		

6.2. Administer Algo 8180

Select **Basic Settings** \rightarrow **SIP** from the top menu, to display the screen below. Configure the **SIP Settings** section toward the bottom of the screen as desired to match the configuration. Enter the following values for the specified fields, and retain the default values in the remaining fields.

- Sip Domain (Proxy Server) : The LAN IP address from Section 5.2
- Ring/Alert Mode: Select Monitor "Ring" event on the registered SIP extension
- Page Function: Select Enabled
- Ring Extension: Enter the loud ringing SIP base extension from Section 5.4
- Authentication ID: Enter the loud ringing SIP user name from Section 5.5
- Ring Password: Enter the loud ringing SIP user login code from Section 5.5
- Page Extension: Enter the voice paging SIP base extension from Section 5.4
- Page Auth ID: Enter the voice paging SIP user name from Section 5.5
- Page Password: Enter the voice paging SIP user login code from Section 5.5

Status Basic Settings Advanced Settings System Logour	t
SIP Ring Page Features Multicast	
SIP Killy Page realures monocast	
SIP Settings	
Here you can configure the basic SIP settings.	
SIP	
SIP Domain (Proxy Server)	10.10.97.36 ①Default port is 5060. To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5080.
Ring/Alert Mode	 Monitor "Ring" event on registered SIP extension Use "Subscribe/Notify" dialog event (RFC 4235) to monitor event on different extension Use "Subscribe/Notify" presence event (RFC 3856/3863 PIDF) to monitor event on different extension None Server support required on "Subscribe/Notify" events
Page Function	Enabled Obisabled Disabled Disabled
Allow SIP REGISTER	●Enabled ○Disabled ④Disable it when connected in trunk mode
Ring Extension	28256
Authentication ID	28256
Authentication Password	•••••
Page Extension	28255
Authentication ID	28255
Authentication Password	•••••

Select **Basic Settings** \rightarrow **Page** from the top menu, to display the **Page Settings** below. In the **Page Mode**, the **One-way** option is selected by default and only this mode is currently supported in the 8180 during the compliance test. The Talkback mode should not be selected because the one-way audio issue and it will be supported in the next release.

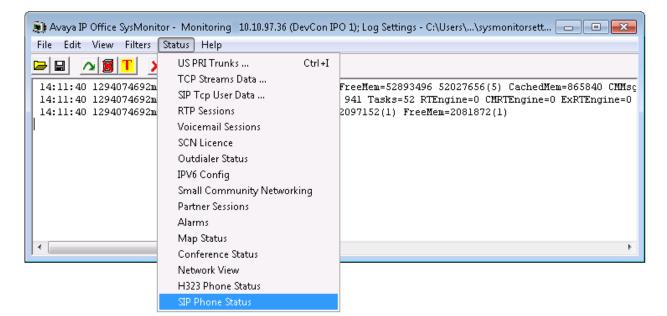
	0 SIP Audio Alerter Control Panel	Firmware: 2.3
Status Basic Settings Advanced	Settings System Logout	
SIP Ring Page Features Mu	lticast	
age Settings		
ere you can configure page settings.		
Page Settings		
Page Volume	7	 Apply
Page Mode	One-way Talkback One-way Talkback mode allows bidirectional communication. G.722 support should talkback mode.	
Page Timeout	None	
Page Tone	page-notif.wav	
G.722 Support	Enabled Obisabled Only for playback.	
Automatic Gain Control (AGC)	©Enabled ©Disabled	
Audio Delay (milliseconds)	D	
		🖌 Sa
© Copyria	ht 2014 Algo Communication Products L	td

7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya IP Office and Algo 8180 SIP Audio Alerter.

7.1. Verify Avaya IP Office

From a PC running the Avaya IP Office Monitor application, select Start \rightarrow Programs \rightarrow IP Office \rightarrow System Monitor to launch the application. The Avaya IP Office SysMonitor screen is displayed, as shown below. Select Status \rightarrow SIP Phone Status from the top menu.



The **SIPPhoneStatus** screen is displayed. Verify that there is an entry for each SIP extension from **Section 5.4**, that the **User Agent** is "Algo-8180", and that the **Status** is "SIP: Registered", as shown below.

Total Config	gured: 16		W	aiting 3 secs for update	e			
Total Regis	tered: 5		Registered Status					
Extn Num	IP Address	Transport	User Agent	Licensed	SIP Options	SIP Events	Status	Т
28255	10.33.5.32	UDP	Algo-8180/2.3.20 Kernel/r5	3rd Party IP	R		SIP: Registered	
28258	0.0.0.0		UĂ?	No Licence			SIP: Unregistered	Ę
28248	0.0.0.0		UA?	No Licence			SIP: Unregistered	-[
28231	0.0.0		UA?	No Licence			SIP: Unregistered	_
•			III				,	r.
Display O								

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7.2. Verify Algo 8180 SIP Audio Alerter

From the Algo 8180 SIP Audio Alerter web-based interface, select **Status** from the top menu. Verify that **SIP Registration** displays "Ring – Successful" and "Page – Successful", as shown below.

ALGO	8180 SIP Audio Alerter Control Panel	Firmware: 2.3.20
Status Basic Settings Advanced S	ettings System Logout	
Welcome to the Algo 8180 SI	P Audio Alerter Control Panel	
Setting up your SIP Audio Alerter:		
Step 1: Configure your SIP Audio Ale	rter	
Log in with the default password and	use the Basic Settings pages to set up the basic information.	
Step 2: Check network settings (Opt	ional)	
	nced Settings tab to change network settings. The default setting fo your Network System administrator if you plan to assign a static IP a	
Step 3: Secure your SIP Audio Alerte	er (Optional)	
· -	ed Settings tab to change the administrator password. y important if the device is directly connected to a public network.	
Step 4: Register your SIP Audio Aler	ter (Optional)	
Please register your product using the	link below:	
http://www.algosolutions.com/8180re	<u>a</u>	
Registration ensures your access to th	e latest upgrades to this product and important service notices.	
Status		
Device Name	sipalerter	
SIP Registration	Ring #1 - Successful Page - Successful	
Call Status	Idle	

The following tests were conducted to verify the solution between the Algo 8180 SIP Audio Alerter and Avaya IPO.

- Verify that the incoming call to the twinning extension on the IPO rings the 8180 and the 8180 stops ringing if the twinning extension answers the call
- Verify that the incoming call to the 8180 Page is automatically answered with clear audio path
- Verify that the telephone that places the incoming call to the 8180 can do conference, transfer, mute, un-mute and provide busy tone if it is on another call
- Verify that the solution works with different Avaya clients (e.g. digital, analog, IP etc).
- Verify that 8180 goes into an idle state when the call is completed
- Verify that the 8180 re-registers without issues if the Ethernet cable is unplugged and plugged back in

8. Conclusion

All of the executed test cases have passed and met the objectives outlined in **Section 2.1**, with some exceptions outlined in **Section 2.2**. Algo 8180 SIP Audio Alerter version 2.3.0 is considered to be in compliance with Avaya IP Office System Release 9.0.

9. Additional References

Product documentation for the Avaya IP Office products may be found at: <u>https://support.avaya.com/css/Products/</u>

Product documentation for the Algo 8180 SIP Audio Alerter products may be found at: http://partneraccess.spectralink.com/products/wi-fi/spectralink-8000-portfolio/pivot-87-series

Avaya IP Office Documents:

- [1] IP Office 9.0 Installation, Document number 15-601042 Issue 28, 11 October 2013
- [2] IP Office 9.0 Manager 9.0, Document number 15-601011 Issue 9.01, 09 September 2013
- [3] IP Office 9.0 Administering Voicemail Pro, Document number 15-601063 Issue 9.0 Release 1.0, September 2013

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