



Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Algo 8180 SIP Audio Alerter Version 1.7 with Avaya Aura® Communication Manager and Avaya Aura® Session Manager Release 8.0 - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Algo 8180 SIP Audio Alerter to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. Algo 8180 SIP Audio Alerter is a SIP-based device that can register with Avaya Aura® Session Manager 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 Aura 8.0. Algo 8180 SIP Audio Alerter is a SIP-based device that can register with Avaya Aura® Session Manager 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 EC500 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.

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.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in this DevConnect Application Note included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with this Application Note, the interface between Avaya systems and the Algo 8180 did not include use of any specific encryption features as requested by Algo.

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.

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>
- Email: support@algosolutions.com

3. Reference Configuration

Figure 1 illustrates the test configuration used during the compliance testing between the Avaya Aura® Communication Manager and Avaya Aura® Session Manager and Algo 8180 SIP Audio Alerter. The Algo 8180 communicated with Avaya Aura systems through Avaya switch with Power over Ethernet (PoE) and registered with Avaya Aura® Session Manager as two separate SIP endpoints, and the extensions used for the testing: one for Voice Paging and one for Loud Ringer. The PRI T1 trunk was also configured to connect from Avaya G450 Media Gateway to PSTN for test cases off-net via PRI T1 trunk.

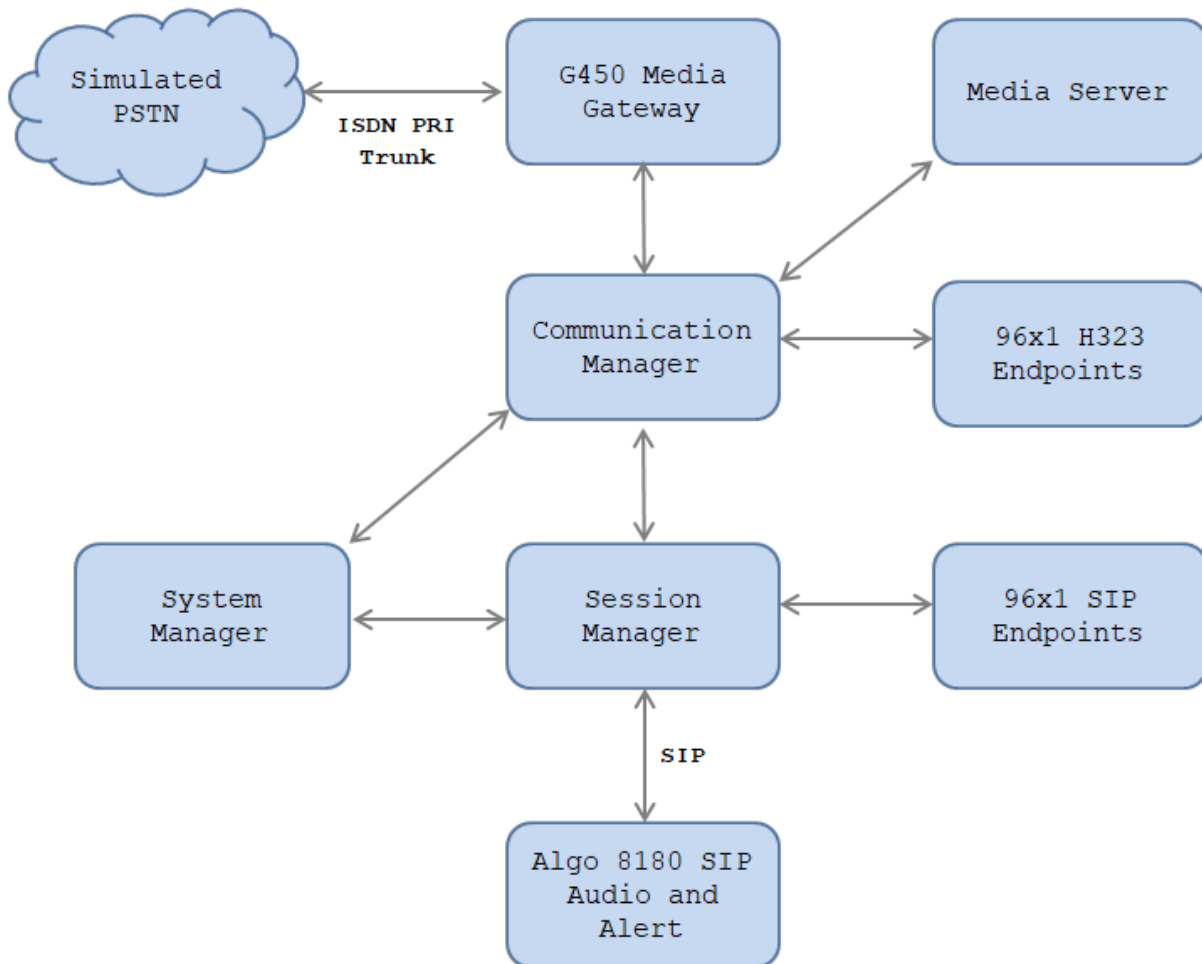


Figure 1: Test Configuration Diagram

The following table indicates the IP addresses that were assigned to the systems in the test configuration diagram:

Description	IP Address
System Manager	10.33.1.10
Session Manager Signaling	10.33.1.12
Breeze Signaling	10.33.1.16
Communication Manager	10.33.1.6
Media Server	10.33.1.30
G450 Media Gateway	10.33.1.40
96x1 Endpoints	10.33.5.40-10.33.5.46
Algo 8028 SIP Audio and Alert	10.33.5.50

4. Equipment and Software Validated

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

Equipment/Software	Version/Release
Avaya Aura® System Manager running on Virtualized Environment	8.0 Build 8.0.0.0.931077
Avaya Aura® Session Manager running on Virtualized Environment	8.0 Build 8.0.0.0.800035
Avaya Aura® Communication Manager running on Virtualized Environment	8.0 Build 8.0.0.1.2.822 Patch 24826
Avaya Aura® Server Media running on Virtualized Environment	8.0 Build 8.0.0.117
Avaya G450 Media Gateway	40 .10 .0
Avaya 96x1 IP Deskphones	7.1.3.0.8 (SIP) 6.6604 (H323)
Avaya 1416 Digital Deskphone	Fw 1
Algo 8180G2 SIP Audio Alerter Firmware Base Version	1.7 R1.6

5. Configure Avaya Aura® Communication Manager

Configuration and verification operations on Communication Manager illustrated in this section were all performed using Avaya Site Administrator Emulation Mode. The information provided in this section describes the configuration of Communication Manager for this solution. It is implied a working system is already in place, including SIP trunks to a Session Manager. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**. The configuration described in this section can be summarized as follows:

- Verify System Capacity
- Define the Dial Plan

Note: Any settings not in **Bold** in the following screen shots may be left as Default.

5.1. Verify System Capacity

The license file installed on the system controls these attributes. If a required feature is not enabled or there is insufficient capacity, contact an authorized Avaya sales representative. Use the **display system-parameters customer-options** command to determine these values. On **Page 1**, verify that the **Maximum Off-PBX Telephones** allowed in the system is sufficient. One OPS station is required per SIP device.

```
display system-parameters customer-options                               Page 1 of 10
                                OPTIONAL FEATURES

G3 Version: V16                                     Software Package: Enterprise
Location: 2                                          System ID (SID): 1
Platform: 28                                        Module ID (MID): 1

                                                USED
Platform Maximum Ports: 65000 290
Maximum Stations: 41000 44
Maximum XMOBILE Stations: 41000 0
Maximum Off-PBX Telephones - EC500: 41000 0
Maximum Off-PBX Telephones - OPS: 41000 14
Maximum Off-PBX Telephones - PBFMC: 41000 0
Maximum Off-PBX Telephones - PVFMC: 41000 0
Maximum Off-PBX Telephones - SCCAN: 41000 0
Maximum Survivable Processors: 313 0

(NOTE: You must logoff & login to effect the permission changes.)
```

On **Page 2** of the **system-parameters customer-options form**, verify that the number of **Maximum Administered SIP Trunks** supported by the system is sufficient.

```

display system-parameters customer-options                                Page 2 of
10
                                OPTIONAL FEATURES

IP PORT CAPACITIES                                                    USED
      Maximum Administered H.323 Trunks: 12000 16
    Maximum Concurrently Registered IP Stations: 18000 2
      Maximum Administered Remote Office Trunks: 12000 0
Maximum Concurrently Registered Remote Office Stations: 18000 0
      Maximum Concurrently Registered IP eCons: 414 0
    Max Concur Registered Unauthenticated H.323 Stations: 100 0
      Maximum Video Capable Stations: 41000 1
      Maximum Video Capable IP Softphones: 18000 4
      Maximum Administered SIP Trunks: 24000 180
Maximum Administered Ad-hoc Video Conferencing Ports: 24000 0
    Maximum Number of DS1 Boards with Echo Cancellation: 522 0
      Maximum TN2501 VAL Boards: 128 0
      Maximum Media Gateway VAL Sources: 250 0
      Maximum TN2602 Boards with 80 VoIP Channels: 128 0
      Maximum TN2602 Boards with 320 VoIP Channels: 128 0
    Maximum Number of Expanded Meet-me Conference Ports: 300 0

(NOTE: You must logoff & login to effect the permission changes.)

```

5.2. Define the Dial Plan

Use the **change dialplan analysis** command to define the dial plan used in the system. This includes all telephone extensions. In the sample configuration, telephone extensions are 4 digits long and begin with **33** and **34**.

```

change dialplan analysis                                                Page 1 of 12
                                DIAL PLAN ANALYSIS TABLE
                                Location: all                            Percent Full: 1

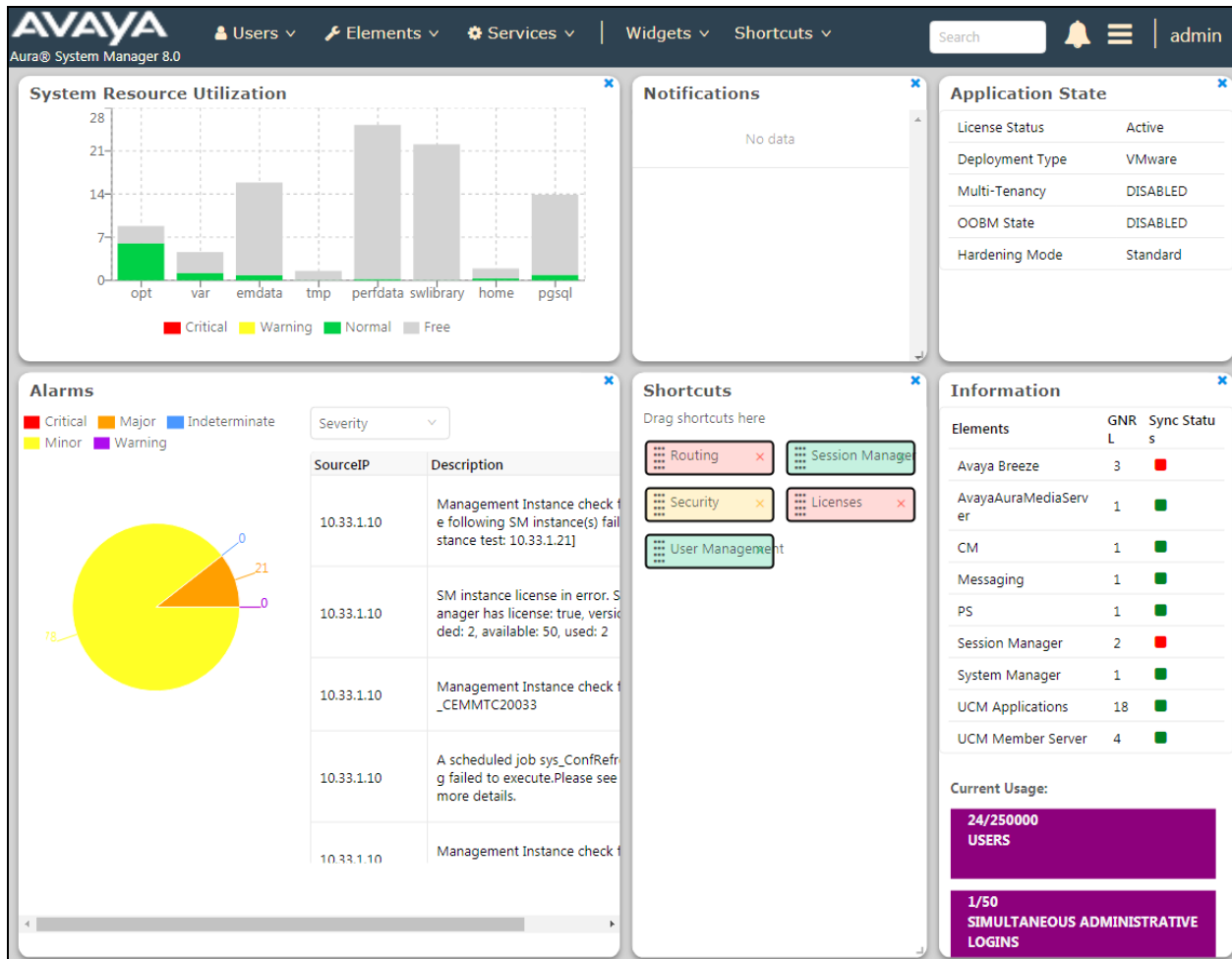
    Dialed   Total Call   Dialed   Total Call   Dialed   Total Call
    String   Length Type     String   Length Type     String   Length Type
33         4  ext
34         4  ext
*           3  fac
#           3  fac

```


6. Configure Avaya Aura® Session Manager

This section describes aspects of the Session Manager configuration required for interoperating with Aura Alliance Client. It is assumed that the Domains, Locations, SIP entities, Entity Links, Routing Policies, Dial Patterns and Application Sequences have been configured where appropriate for Communication Manager, Session Manager and Aura Messaging.

Session Manager is managed via System Manager. Using a web browser, access **https://<ip-addr of System Manager>/SMGR**. In the **Log On** screen, enter appropriate **User ID** and **Password** and click the **Log On** button.



6.1. Check Avaya Aura® Session Manager ports for Algo Client Registration

Each Session Manager Entity must be configured so that the Algo 8180 SIP Audio Alerter can register to it using UDP/TCP. From the web interface click **Routing → SIP Entities** (not shown) and select the Session Manager entity used for registration. Make sure that **TCP** and **UDP** entries are present. The TCP and UDP entries are highlighted below.

Listen Ports

TCP Failover port:

TLS Failover port:

Add Remove

6 Items Filter: Enable

<input type="checkbox"/>	Listen Ports	Protocol	Default Domain	Endpoint	Notes
<input type="checkbox"/>	5060	TCP	bvwdev.com	<input checked="" type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5060	UDP	bvwdev.com	<input checked="" type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5061	TLS	bvwdev.com	<input checked="" type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5062	TLS	bvwdev.com	<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5067	TLS	bvwdev.com	<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5080	TCP	bvwdev.com	<input type="checkbox"/>	<input type="text"/>

Select : All, None

Repeat accordingly on the alternative Session Manager if applicable.

6.2. Add a SIP User

The Algo 8180 SIP user must be added as a user. A user must be added for each Algo 8180 Audio Ring and Page. Click **User Management** → **Manage Users** → **New** (not shown) and configure the following in the **Identity** tab.

- **First Name and Last Name** Enter an identifying name
- **Login Name** Enter the extension number followed by the domain, in this case **3408@bvwdev.com**
- **User Type** Select **Basic** from the drop down list
- **Password and Confirm Password** Enter and confirm a password

Home / Users / Manage Users Help ?

User Profile | Add

[Commit & Continue](#) [Commit](#) [Cancel](#)

Identity | Communication Profile | Membership | Contacts

Basic Info

Address

LocalizedName

User Provisioning Rule:

* Last Name: Last Name (Latin Translation):

* First Name: First Name (Latin Translation):

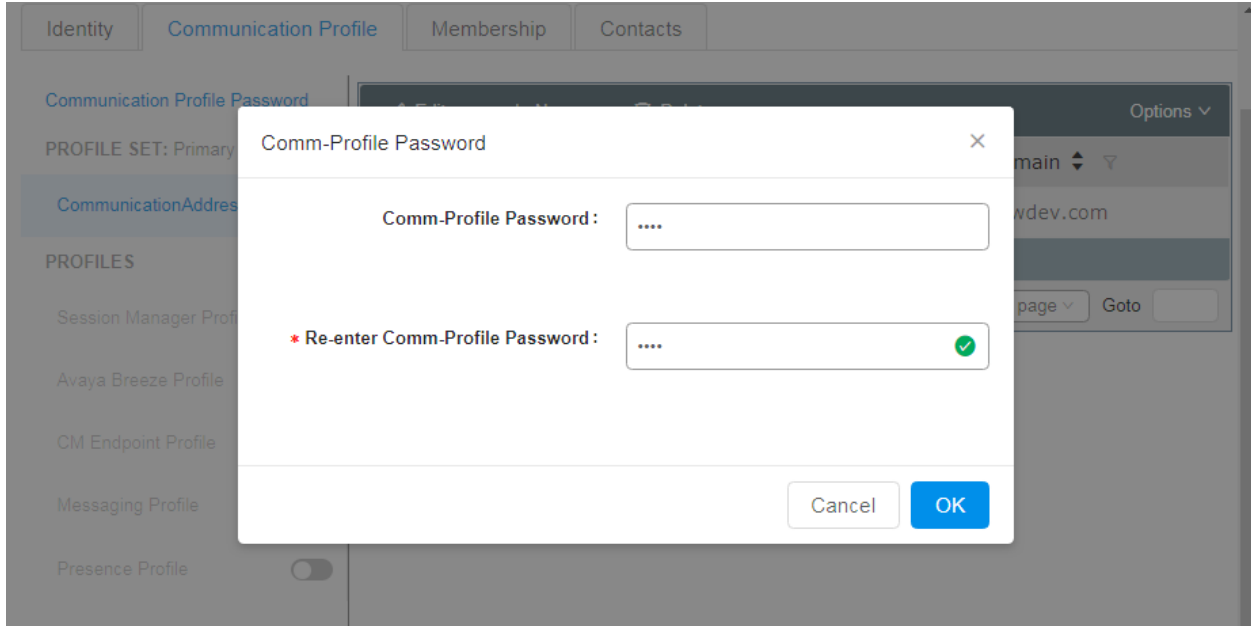
* Login Name: Middle Name:

Description: Email Address:

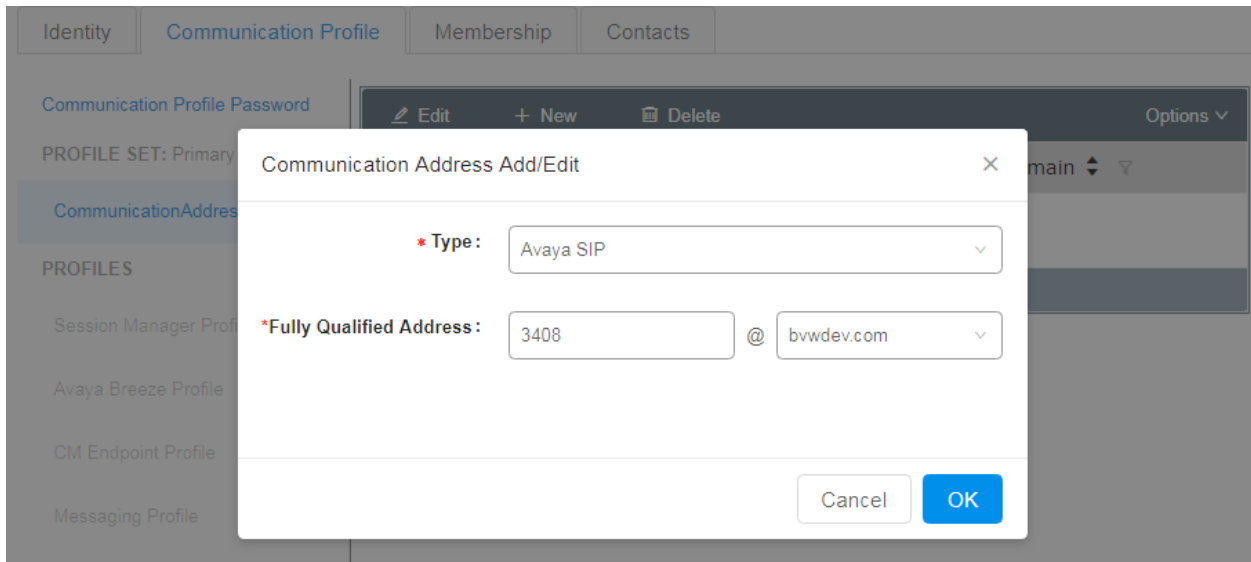
Password: User Type:

* Confirm Password: Localized Display Name:

Click the **Communication Profile** tab and in the **Communication Profile Password** and **Confirm Password** fields, enter a numeric password. This will be used to register the 8180 during login.



In the **Communication Address** section, for **Type** select **Avaya SIP** from the drop down list. In the **Fully Qualified Address** field enter the extension number as required and select the appropriate **Domain** from the drop down list. Click **OK** when done.



Place a tick in the **Session Manager Profile** check box and configure the **Primary Session Manager, Origination Application Sequence, Termination Application Sequence** and **Home Location**, from the respective drop down lists. The Primary Session Manager used was **ASM70A**.

Home / Users / Manage Users Help ?

User Profile | Add

Commit & Continue Commit Cancel

Identity **Communication Profile** Membership Contacts

Communication Profile Password

PROFILE SET: Primary

CommunicationAddress

PROFILES

- Session Manager Profile**
- Avaya Breeze Profile
- CM Endpoint Profile
- Messaging Profile
- Presence Profile

SIP Registration

* Primary Session Manager: ⓘ

Secondary Session Manager: ⓘ

Survivability Server: ⓘ

Max. Simultaneous Devices:

Block New Registration When Maximum

Application Sequences

Origination Sequence:

Termination Sequence:

Emergency Calling Application Sequences

Emergency Calling Origination Sequence:

Emergency Calling Termination Sequence:

Call Routing Settings

* Home Location:

Place a tick in the **CM Endpoint Profile** check box and configure as follows:

- **System** Select the relevant Communication Manager SIP Entity from the drop down list
- **Profile Type** Select **Endpoint** from the drop down list
- **Extension** Enter the required extension number, in this case **3408**
- **Template** Select **9621SIP_DEFAULT_CM_8_0** from the drop down list
- **Port** The “IP” is auto filled out by the system

Click on **Endpoint Editor**.

Home / Users / Manage Users Help ?

User Profile | Add

Commit & Continue Commit Cancel

Identity **Communication Profile** Membership Contacts

Communication Profile Password

PROFILE SET: Primary

CommunicationAddress

PROFILES

Session Manager Profile

Avaya Breeze Profile

CM Endpoint Profile

Messaging Profile

* **System**: interopcm

* **Profile Type**: Endpoint

Use Existing Endpoints:

* **Extension**: 3408

* **Template**: 9621_DEFAULT_CM_8_0

* **Set Type**: 9621

Security Code: Enter Security Code

Port: IP

Voice Mail Number:

Preferred Handle: Select

Repeat the procedure above to add another SIP user 3409 for Algo 8180 Page extension.

7. Configure 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.

7.1. Launch Web Interface

Access the 8180 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 8180 Audio Alerter. The IP address of the 8180 can be spoken by using combination buttons in the bottom of the 8180. The **Welcome to the Algo 8180 SIP Audio Alerter Control Panel** screen is displayed, as shown below. Log in using the appropriate credentials.

ALGO 8180G2 SIP Audio Alerter Control Panel Firmware: 1.6.4

Welcome to the Algo 8180G2 SIP Audio Alerter Control Panel

Setting up your SIP Audio Alerter:

Step 1: Configure your SIP Audio Alerter
Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
Use the Network page under the Advanced Settings tab to change network settings. 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 IP address, Mask, and Gateway to the device.

Step 3: Secure your SIP Audio Alerter (Optional)
Use the Admin page under the Advanced Settings tab to change the administrator password.
⚠ Changing the 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 product using the link below:
<http://www.algosolutions.com/register>
Registration ensures your access to the latest upgrades to this product and important service notices.

Login

Password (default: algo)

Status

Device Name	sipalerter		
SIP Registration	Page	Successful	(Extension 3409)
	Ring #1	Successful	(Extension 3408)
Call Status	Idle		
Proxy Status	Single proxy mode		
Security	TLS	Disabled	
	SRTP	Disabled	
Provisioning Status	None Found		
MAC	00:22:ee:12:04:73		
IP	10.33.5.50		
Netmask	255.255.255.0		
Gateway	10.33.5.1		

7.2. Administer Algo 8180 SIP Audio Alerter

Select **Basic Settings** → **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):** Enter the SIP domain name as configured in **Section 6.1**.
- **Ring/Alert Mode:** Select **Monitor “Ring” event on the registered SIP extension**.
- **Ring/Alert Extension:** Enter the loud ringing SIP base extension from **Section 6.2**.
- **Authentication ID:** Enter the loud ringing SIP user name from **Section 6.2**.
- **Ring Password:** Enter the loud ringing SIP user login code from **Section 6.2**.
- **Page Extension:** Enter the voice paging SIP base extension from **Section 6.2**.
- **Page Auth ID:** Enter the voice paging SIP user name from **Section 6.2**.
- **Page Password:** Enter the voice paging SIP user login code from **Section 6.2**.

Click on **Save** button to save the configuration.

The screenshot displays the ALGO 8180G2 SIP Audio Alerter Control Panel. The top navigation bar includes 'Status', 'Basic Settings', 'Additional Features', 'Advanced Settings', 'System', and 'Logout'. The 'SIP' tab is selected, showing 'SIP Settings' with sub-tabs for 'Features' and 'Multicast'. The 'SIP' section contains two main configuration areas: 'Ring/Alert' and 'Base/Page'. The 'Ring/Alert' section includes fields for 'SIP Domain (Proxy Server)' (bvwdev.com), 'Ring/Alert Mode' (Monitor "Ring" event on registered SIP extension), 'Ring/Alert Extension' (3408), 'Authentication ID' (3408), 'Authentication Password' (masked), and 'Display Name (Optional)' (Ring 3408). The 'Base/Page' section includes fields for 'Base/Page Extension' (3409), 'Authentication ID' (3409), 'Authentication Password' (masked), and 'Display Name (Optional)' (Page 3409). A 'Save' button is located at the bottom right.

Navigate to **Advanced Settings** → **Advanced SIP**. The **Advanced SIP** page is displayed, enter the signaling IP address of Session Manager in the **Outbound Proxy** and keep other values at default.

Click on **Save** button to save the configuration.

ALGO 8180G2 SIP Audio Alerter Control Panel Firmware: 1.7

Status Basic Settings Additional Features **Advanced Settings** System Logout

Network Admin Time Provisioning File Manager Advanced Audio **Advanced SIP** Advanced Multicast

Advanced SIP Settings

General

SIP Transportation	Auto <small>Select Auto to check DNS NAPTR record, then try UDP/TCP. In TLS mode, if the SIP Server requires endpoints to be authenticated, a PEM file containing both a device certificate and a private key needs to be installed on the Algo device. Use the "Advanced Settings > File Manager" tab to upload a certificate file renamed to 'sipclient.pem' in the 'certs' folder. To force the Algo device to authenticate the SIP server, a certificate obtained from the SIP server needs to be installed. Use the "Advanced Settings > File Manager" tab to upload a certificate file renamed to 'siptrusted.pem' in the 'certs' folder.</small>
SDP SRTP Offer	Disabled
SIP Outbound Support (RFC 5626)	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <small>Enable this option to support best networking practices according to RFC 5626. This option should generally be enabled if the Algo device is being registered with a hosted server or if TLS is being used for SIP Transportation.</small>
Outbound Proxy	10.33.1.12
Register Period (seconds)	3600

NAT

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Aura® Session Manager and Algo 8180 SIP Audio Alerter.

8.1. Verify Registration to Avaya Aura® Session Manager

From the System Manager dashboard select **Session Manager** from the **Elements** section (not shown). From the left hand menu select **System Status**→**User Registrations** (not shown). The Algo 8180 Ring and Page extensions are listed and a tick under **Registered** for the Session Manager as it is registered to.

The screenshot displays the Avaya Aura System Manager 8.0 interface. The top navigation bar includes the Avaya logo, user profile, and various menu items like Users, Elements, Services, Widgets, and Shortcuts. The main content area is titled "User Registrations" and shows a table of 22 items. The table has columns for Address, First Name, Last Name, Actual Location, IP Address, Remote Office, Shared Control, Simult. Devices, AST Device, and Registered (Prim, Sec, Sur). Two rows are visible, both with a checked box in the Registered column.

	Details	Address	First Name	Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices	AST Device	Registered		
											Prim	Sec	Sur
<input type="checkbox"/>	Show	3408@bvwddev.com	3408	SIP	IP-Phone-Location	10.33.5.50	<input type="checkbox"/>	<input type="checkbox"/>	1/1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Show	3409@bvwddev.com	3409	SIP	IP-Phone-Location	10.33.5.50	<input type="checkbox"/>	<input type="checkbox"/>	1/1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8.2. Verify Algo 8180

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 8180G2 SIP Audio Alerter Control Panel Firmware: 1.6.4

[Status](#) | [Basic Settings](#) | [Additional Features](#) | [Advanced Settings](#) | [System](#) | [Logout](#)

Device Status

Welcome to the Algo 8180G2 SIP Audio Alerter Control Panel

Setting up your SIP Audio Alerter:

Step 1: Configure your SIP Audio Alerter
Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
Use the Network page under the Advanced Settings tab to change network settings. 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 IP address, Mask, and Gateway to the device.

Step 3: Secure your SIP Audio Alerter (Optional)
Use the Admin page under the Advanced Settings tab to change the administrator password.
⚠️ Changing the 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 product using the link below:
<http://www.algosolutions.com/register>

Registration ensures your access to the latest upgrades to this product and important service notices.

Status

Device Name	sipalerter		
SIP Registration	Page Ring #1	Successful Successful	(Extension 3409) (Extension 3408)
Call Status	Idle		
Proxy Status	Single proxy mode		
Security	TLS SRTP	Disabled Disabled	
Provisioning Status	None Found		
MAC	00:22:ee:12:04:73		
IP	10.33.5.50		
Netmask	255.255.255.0		
Gateway	10.33.5.1		
Date / Time	Fri Nov 2 21:10:27 UTC 2018		
Multicast Mode	Disabled		
Volume	Page Volume: 4 (-18dB), Ring Volume: 1 (-27dB)		
Relay Input Status	Disabled		

The following tests were conducted to verify the solution between the Algo 8180 and Communication Manager and Session Manager.

- Verify that the incoming call to the bridged extension on the Communication Manager that rings the 8180 Ring and the 8180 Ring stops ringing if the bridge 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 Page 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.

9. Conclusion

These Application Notes describe the configuration steps required to integrate the Algo 8180 SIP Audio Alerter with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. 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**.

10. Additional References

Product documentation for the Avaya Aura may be found at:

<https://support.avaya.com/css/Products/>

Avaya Aura Documents:

- [1] Administering Avaya Aura® Communication Manager, Release 8.0, August 2018, Document Number 03-300509, Issue 1.
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Release 8.0, August 2018, Document Number 555-245-205, Issue 1.
- [3] Administering Avaya Aura® Session Manager, Release 8.0, Issue 1 August 2018
- [4] Administering Avaya Aura® System Manager, Release 8.0, Issue 1, August, 2018

Product documentation for the Algo 8180 SIP Audio Alerter products may be found at:

<http://www.algosolutions.com/8180>

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