



## Avaya Solution & Interoperability Test Lab

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# Application Notes for Algo 8201 SIP PoE Intercom Version 1.7.6 with Avaya Aura® Communication Manager and Avaya Aura® Session Manager Release 8.1 - Issue 1.0

### Abstract

These Application Notes describe the configuration steps required for Algo 8201 SIP PoE Intercom to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. Algo 8201 SIP PoE Intercom is a SIP-based device that can register with Avaya Aura® Session Manager as SIP endpoint.

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 8201 SIP PoE Intercom to interoperate with Avaya Aura® Session Manager 8.1. Algo 8201 SIP PoE Intercom is a SIP-based device that can register with Avaya Aura® Session Manager as SIP endpoint.

The 8201 SIP PoE Intercom is an IP doorphone for hands-free visitor communication at a secure entrance door or gate, access point, and room intercom applications. The 8201 SIP PoE Intercom can also auto-answer an incoming call and allow the caller to enter DTMF to open the door for visitor.

The 8201 can represent the 8201, 8028, 8028V, 8203 since it shares the same SIP stack.

## 2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually placed to the 8201, 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 these DevConnect Application Notes 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 these Application Notes, the interface between Avaya systems and the Algo 8201 IP Intercom 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 feature testing included registration, media shuffling, internal and external caller, 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 8201 SIP Intercom 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.

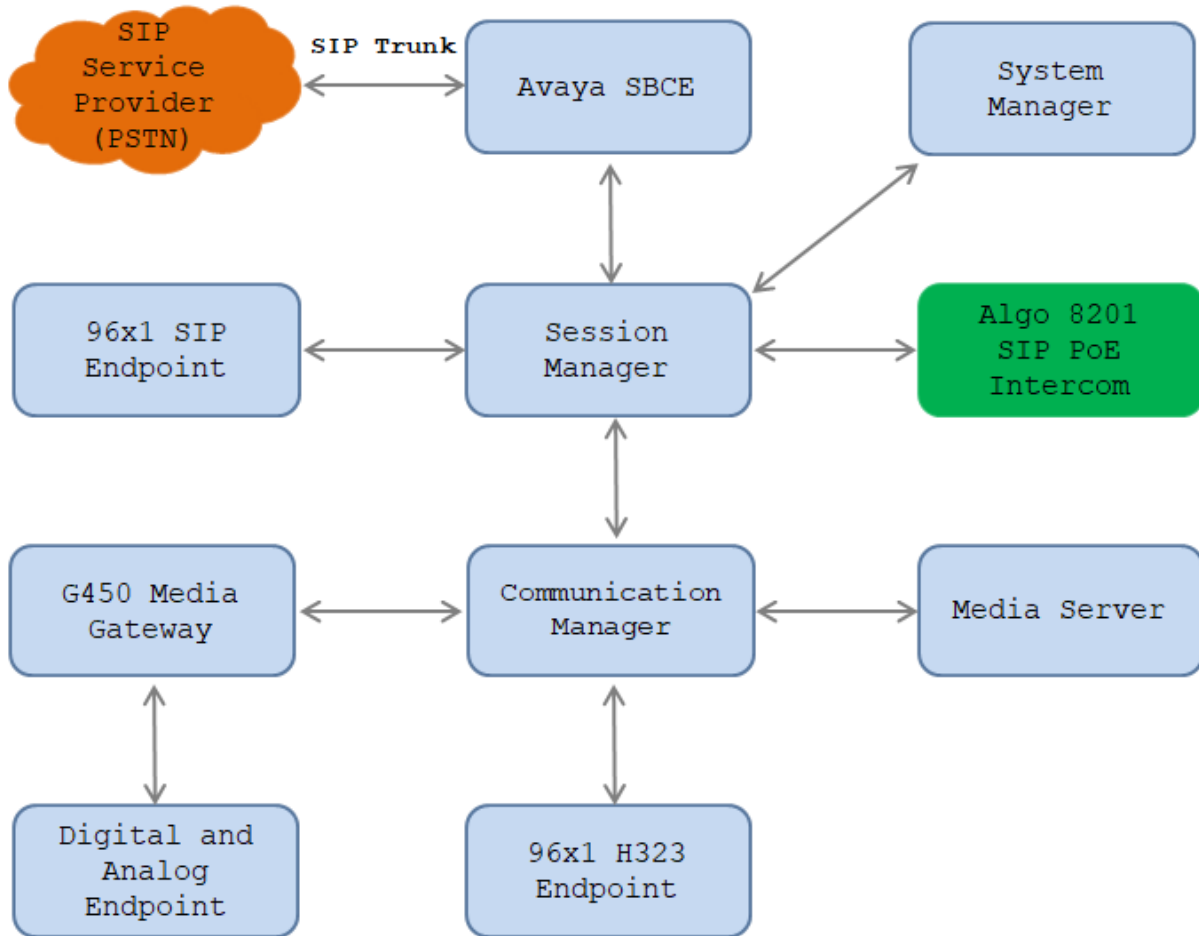
## 2.3. Support

Technical support on Algo 8201 SIP PoE Intercom 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 8201 SIP PoE Intercom. The Algo 8201 communicated with Avaya systems through an Avaya switch with Power over Ethernet (PoE) and registered with Avaya Aura® Session Manager as SIP endpoint. The SIP trunk was also configured to connect from Avaya Session Border Controller for Enterprise to Service Provider for test cases off-net via SIP trunk.



**Figure 1: Test Configuration Diagram**

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

<b>Description</b>	<b>IP Address</b>
System Manager	10.33.1.10
Session Manager Signaling	10.33.1.12
Communication Manager	10.33.1.6
Session Border Controller	10.33.1.51
Media Server	10.33.1.30
G450 Media Gateway	10.33.1.40
96x1 Endpoints	10.33.5.40-10.33.5.46
Algo 8201 SIP PoE Intercom	192.168.12.138

## 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	8.1.3 Build 8.1.3.0.1011784
Avaya Aura® Session Manager running on Virtualized Environment	8.1.3 Build 8.1.3.0.813014
Avaya Aura® Communication Manager running on Virtualized Environment	8.1.3 Build 8.1.3.2.0.890.26989
Avaya Aura® Server Media running on Virtualized Environment	8.0 8.0.2.163
Avaya G450 Media Gateway	41 .34 .0
Avaya 9611G IP Deskphone (SIP)	7.1.9.0.8
Avaya 9641G IP Deskphone (H.323)	6.85.11
Avaya 1416 Digital Deskphone	Fw 1
Algo 8201 IP PoE Intercom Firmware Base Version	1.7.6 r1.7

## 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

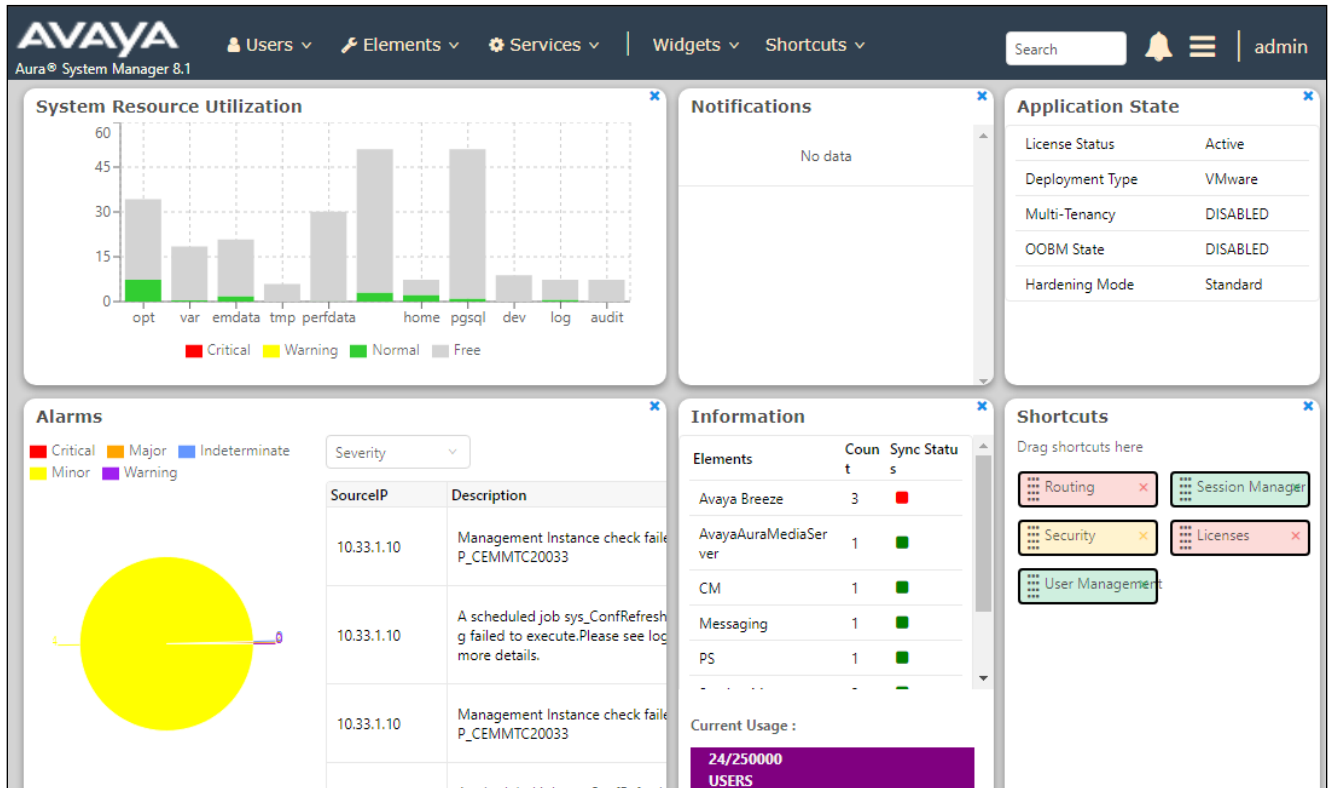
    Dialed   Total Call   Dialed   Total Call   Dialed   Total Call
    String   Length Type     String   Length Type     String   Length Type
33         4  ext
34         4  ext
    *         3   fac
    #         3   fac
  
```



## 6. Configure Avaya Aura® Session Manager

This section describes aspects of the Session Manager configuration required for interoperating with Algo 8201. 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 and Session Manager..

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. Verify Session Manager Listen Port for SIP Endpoint Registration

Each Session Manager Entity must be configured so that SIP endpoint can register to it using UDP, TCP, or TLS. From the web interface click **Routing** → **SIP Entities** (not shown) and select the Session Manager entity used for registration. In the compliance test, **TCP** and **UDP** listen ports were used. The TCP and UDP entries are highlighted below.

**Listen Ports**

TCP Failover port:

TLS Failover port:

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](#)

## 6.2. Add a SIP User

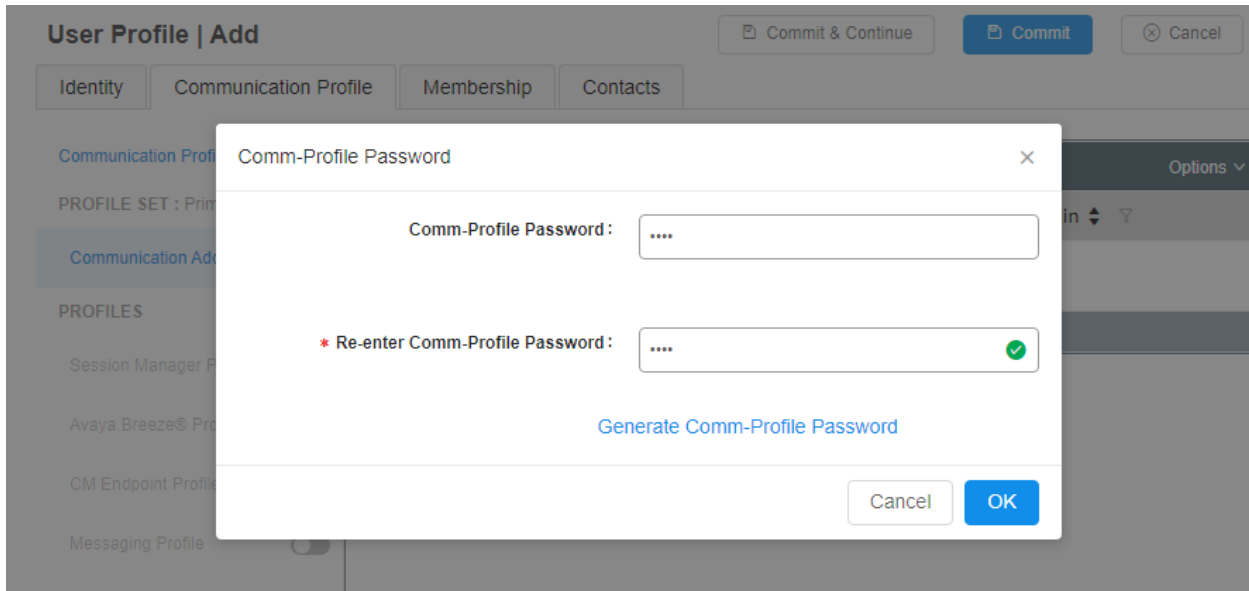
A SIP user will be created for Algo 8201. Click **User Management** → **Manage Users** → **New** (not shown) and configure the following in the **Identity** tab.

- **First Name** and **Last Name** Enter an identifying name
- **Login Name** Enter the extension number followed by the domain, in this case **3406@bvwdev.com**

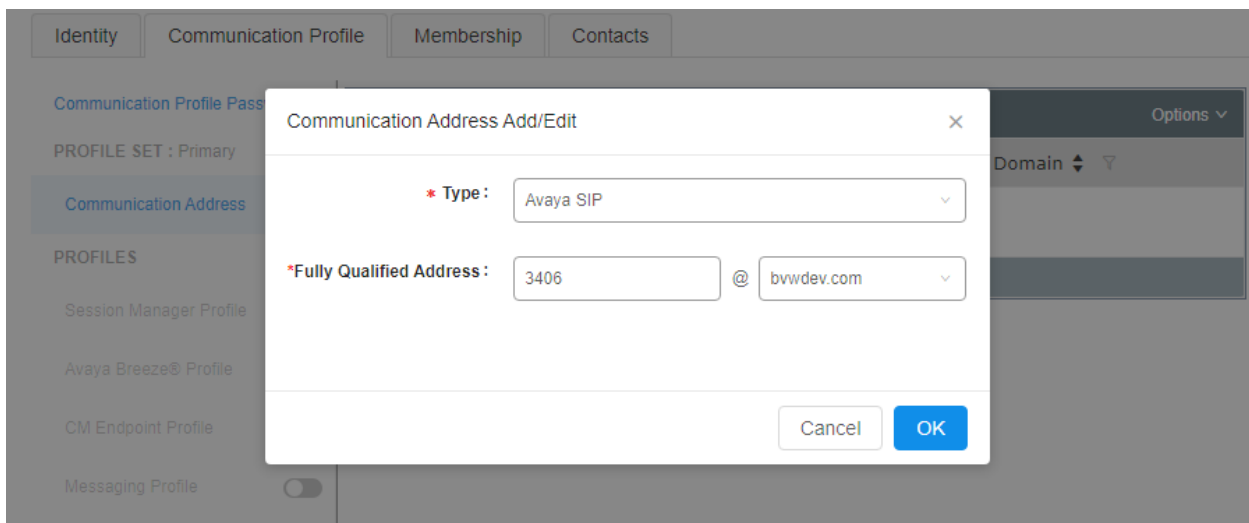
The screenshot shows the 'User Profile | Add' form with the 'Identity' tab selected. The form is divided into several sections:

- User Provisioning Rule:** A dropdown menu.
- Basic Info:** A sidebar menu with 'Basic Info' selected.
- Fields:**
  - \* Last Name:** Text input with value 'SIP'.
  - Last Name (in Latin alphabet characters):** Text input with value 'SIP'.
  - \* First Name:** Text input with value '3406'.
  - First Name (in Latin alphabet characters):** Text input with value '3406'.
  - \* Login Name:** Text input with value '3406@bvwdev.com'.
  - Middle Name:** Text input with value 'Middle Name Of User'.
  - Description:** Text input with value 'Description Of User'.
  - Email Address:** Text input with value 'Email Address Of User'.
  - Password:** Text input.
  - User Type:** Dropdown menu with value 'Basic'.
  - Confirm Password:** Text input.
  - Localized Display Name:** Text input with value 'Localized Display Narr'.
  - Endpoint Display:** Text input with value 'Endpoint Display Nam'.
  - Title Of User:** Text input with value 'Title Of User'.

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 Network Ceiling Speaker 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 **3406**
- **Template** Select **9640SIP\_DEFAULT\_CM\_8\_1** from the drop down list
- **Port** The “IP” is auto filled out by the system

Click on **Commit** to save.

Home / Users / Manage Users Help ?

### User Profile | Add

Commit & Continue Commit Cancel

Identity | **Communication Profile** | Membership | Contacts

Communication Profile Password

PROFILE SET : Primary

Communication Address

PROFILES

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

\* System: interopcm

\* Profile Type: Endpoint

Use Existing Endpoints:

\* Extension: 3406

\* Template: 9640SIP\_DEFAULT

\* Set Type: 9640SIP

Security Code: Enter Security Code

Port: IP

Voice Mail Number:

Preferred Handle: Select

Calculate Route Pattern:

Sip Trunk: aar

SIP URI: Select

Delete on Unassign from User or on Delete:

## 7. Configure 8201 IP PoE Intercom

This section provides the procedures for configuring Algo 8201 IP PoE Intercom. The procedures include the following areas:

- Launch web interface.
- Administer configuration.

### 7.1. Launch Web Interface

Access the 8201 IP PoE Intercom web-based interface by using the URL “http://ip-address” in an Internet browser window, where “ip-address” is the IP address of the 8201. The IP address of the 8201 can be spoken by using the call buttons in the front of the 8201. The **Welcome to the Algo 8201 IP PoE Intercom Control Panel** screen is displayed, as shown below. Log in using the appropriate credentials.

**ALGO** 8201 SIP PoE Intercom Control Panel Firmware: 1.7.6

**Welcome to the Algo 8201 SIP PoE Intercom Control Panel**

Setting up your SIP PoE Intercom:

**Step 1: Configure your SIP PoE Intercom**

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 PoE Intercom (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 PoE Intercom (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	sipintercom	
SIP Registration	<b>Successful</b>	(Extension 3406)
Call Status	Idle	
Proxy Status	Single proxy mode	
Security	TLS	Disabled

## 7.2. Administer Algo 8201 SIP PoE Intercom

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**.
- **SIP Extension:** Enter the SIP user extension from **Section 6.2**.
- **Authentication ID:** Enter the SIP user extension from **Section 6.2**.
- **Authentication Password:** Enter the SIP user login code from **Section 6.2**.
- **Display Name (Option):** Enter a name for the 8201.
- **Extension to Dial:** Enter an extension that the 8201 dials.

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

The screenshot displays the ALGO 8201 SIP PoE Intercom Control Panel interface. The top navigation bar includes 'Status', 'Basic Settings', 'Advanced Settings', 'System', and 'Logout'. The 'SIP' section is active, with sub-tabs for 'Features', 'Door Control', and 'Multicast'. The 'SIP Settings' section contains the following fields:

Field	Value
SIP Domain (Proxy Server)	bvwdev.com <small>Default port is 5060. To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5080.</small>
SIP Extension	3406
Authentication ID	3406
Authentication Password	****
Display Name (Optional)	Algo 8201
Extension to Dial	3300 <small>Phone number to be dialed when the call button is pressed.</small>

A 'Save' button is located at the bottom right of the configuration area.



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.

The screenshot shows the ALGO 8201 SIP PoE Intercom Control Panel interface. The top navigation bar includes 'Status', 'Basic Settings', 'Advanced Settings', 'System', and 'Logout'. Below this, a secondary navigation bar lists 'Network', 'Admin', 'Time', 'Provisioning', 'File Manager', 'Advanced Audio', 'Advanced SIP', and 'Advanced Multicast'. The main content area is titled 'Advanced SIP Settings' and is divided into two sections: 'General' and 'NAT'.  
In the 'General' section, the following settings are visible:  
- SIP Transportation: Set to 'Auto'. A help icon indicates: '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.'  
- SIP Scheme: Radio buttons for 'Enabled' and 'Disabled', with 'Disabled' selected.  
- SDP SRTP Offer: Set to 'Disabled'.  
- SIP Outbound Support (RFC 5626): Radio buttons for 'Enabled' and 'Disabled', with 'Disabled' selected. A help icon indicates: '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.'  
- Outbound Proxy: Text input field containing '10.33.1.110'.  
- Register Period (seconds): Text input field containing '3600'.  
In the 'NAT' section, the 'Media NAT' setting has radio buttons for 'None', 'ICE', and 'STUN', with 'None' selected.

## 8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Aura® Session Manager and Algo 8201 SIP PoE Intercom.

### 8.1. Verify Registration to Avaya Aura® Session Manager

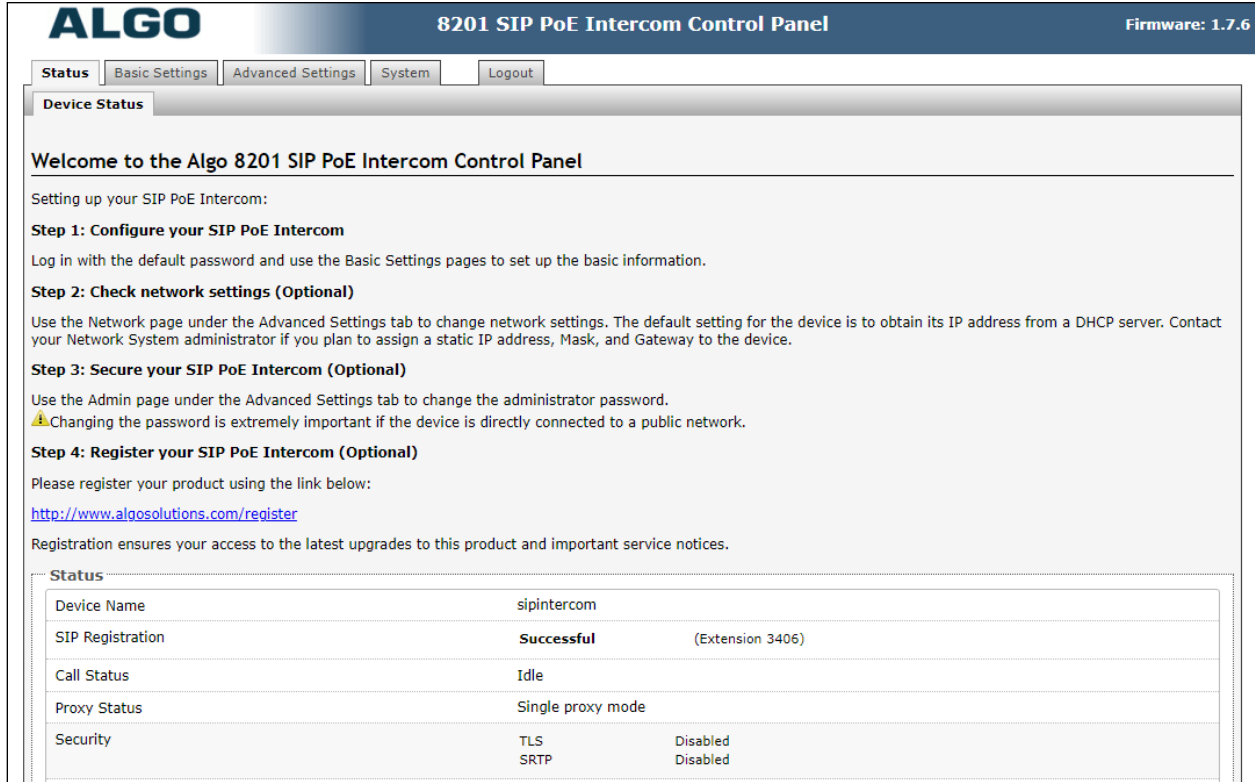
From the System Manager dashboard select **Session Manager** from the **Elements** section (not shown). From the left hand menu select **System Status**→**User Registrations** (not shown). The Algo 8201Ring and Page extensions are listed and a tick under **Registered** for the Session Manager as it is 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 contains a table of user registration data. 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 'Registered' status.

	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"/>	<a href="#">Show</a>	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"/>	<a href="#">Show</a>	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 8201

From the Algo 8201 SIP PoE Intercom web-based interface, select **Status** from the top menu. Verify that **SIP Registration** displays “Successful” as shown below.



**ALGO** 8201 SIP PoE Intercom Control Panel Firmware: 1.7.6

Status Basic Settings Advanced Settings System Logout

**Device Status**

Welcome to the Algo 8201 SIP PoE Intercom Control Panel

Setting up your SIP PoE Intercom:

**Step 1: Configure your SIP PoE Intercom**  
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 PoE Intercom (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 PoE Intercom (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	sipintercom	
SIP Registration	<b>Successful</b>	(Extension 3406)
Call Status	Idle	
Proxy Status	Single proxy mode	
Security	TLS	Disabled
	SRTP	Disabled

The following tests were conducted to verify the solution between the Algo 8201 and Communication Manager and Session Manager.

- Verify that the incoming call to the 8201 and it is auto answered.
- Verify that the call is clear audio.
- Verify that the caller presses the key 6 to open the door.
- Verify that the solution works with different Avaya clients (e.g., digital, analog, IP etc.).
- Verify that 8201 goes into an idle state when the call is completed.
- Verify that the 8201 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 8201 SIP PoE Intercom 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**.

## 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 8.1.x, Issue 12, July 2021.

[2] Administering Avaya Aura® Session Manager, Release 8.1.x, Issue 10, September 2021.

Product documentation for the Algo 8201 IP PoE Intercom products may be found at:

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

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