



Avaya Solution & Interoperability Test Lab

Application Notes for Algo 8138 SIP Multicolor Strobe Light Version 3.1.3 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 8138 SIP Multicolor Strobe Light to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. Algo 8138 SIP Multicolor Strobe Light is a SIP-based device that can register with Avaya Aura® Session Manager as a SIP endpoint for notification and alerting of a telephone, emergency, safety and security events.

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 the Algo 8138 SIP Multicolor Strobe Light to interoperate with Avaya Aura 8.1. The Algo 8138 SIP Multicolor Strobe Light is a SIP-based device that can register with Avaya Aura® Session Manager for notification and alerting of telephone, emergency, safety, and security events.

The Algo 8138 Multicolor Strobe Light supports multiple SIP extensions which behave differently – RING, PAGE and EMERGENCY ALERT. One or multiple may be used depending on the application. If the RING extension is called the 8138 will not answer. Instead, it will flash a light pattern until the inbound call stops ringing. Typically the RING extension is programmed as part of a hunt group so that it receives a ring signal simultaneously with one or more devices. The simultaneous ringing at the desk phone and Algo 8138 SIP Multicolor Strobe Light is accomplished via the bridge feature.

For voice paging, the Algo 8138 Multicolor Strobe Light will auto-answer any inbound call received on this extension and flash a light pattern and provide a voice paging path for multicast (if configured).

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 8138 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, 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 8138 SIP Multicolor Strobe Light 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 8138 SIP Multicolor Strobe Light can be obtained through the following:

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

3. Reference Configuration

Figure 1 illustrates the test configuration used during the compliance testing between Avaya Aura® Communication Manager, Avaya Aura® Session Manager, and Algo 8138 SIP Multicolor Strobe Light. The Algo 8138 communicated with Avaya Aura® systems through an 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 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.

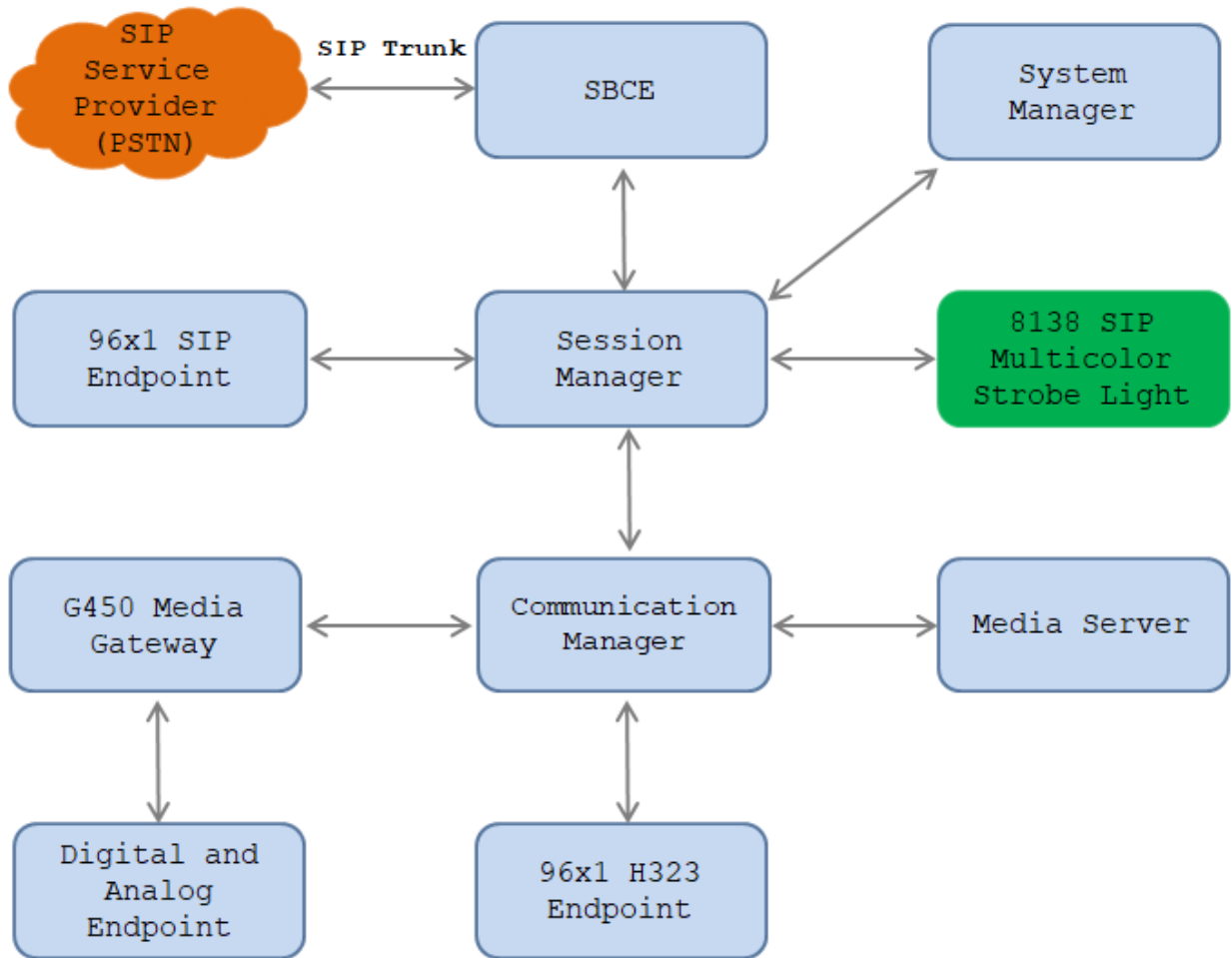


Figure 1: Test Configuration Diagram

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

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
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 8138 SIP Multicolor Strobe Light	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	8.1.1.0 Build 8.1.0.0.733078
Avaya Aura® Session Manager running on Virtualized Environment	8.1.1.0 Build 8.1.1.0.811021
Avaya Aura® Communication Manager running on Virtualized Environment	8.1.0 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	41 .16 .0
Avaya 96x1 IP Deskphones	7.1.68 (SIP) 6.8 (H.323)
Avaya 1416 Digital Deskphone	FW 1
Algo 8138 SIP Multicolor Strobe Light	3.1.3

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**.

```

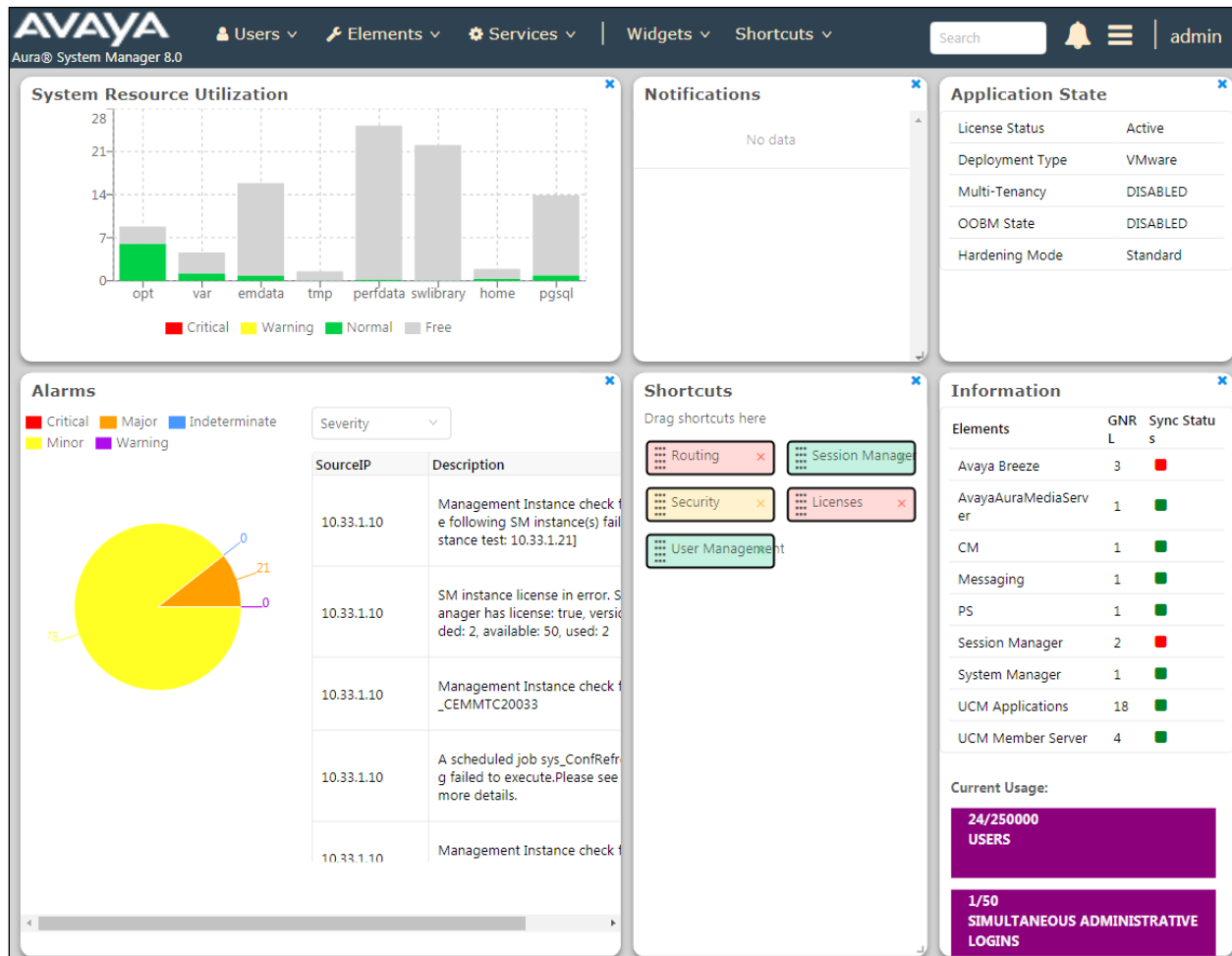
change dialplan analysis                                                Page 1 of 12
                                DIAL PLAN ANALYSIS TABLE
                                Location: all                            Percent Full: 1

    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. 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 must be added for Algo 8138 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**
- **Password and Confirm Password** Enter and confirm a password

Home / Users / Manage Users Help ?

User Profile | Add

Identity | Communication Profile | Membership | Contacts

Basic Info

Address

LocalizedName

User Provisioning Rule:

* Last Name: Last Name (Latin Translation):

* First Name: First Name (Latin Translation):

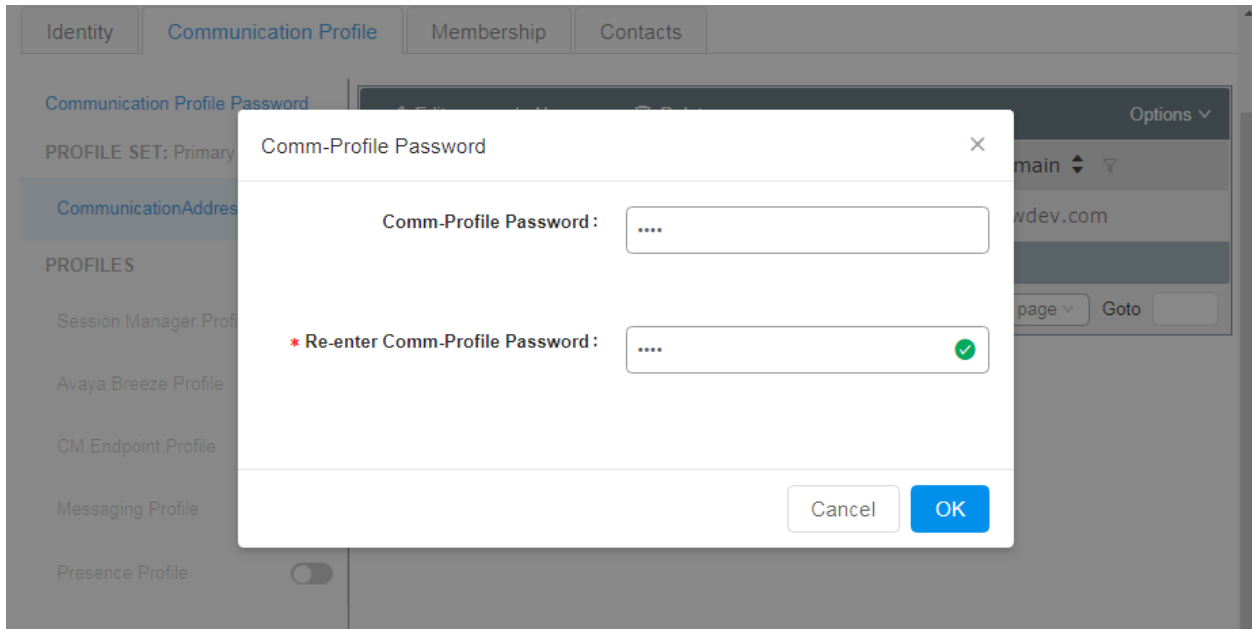
* Login Name: Middle Name:

Description: Email Address:

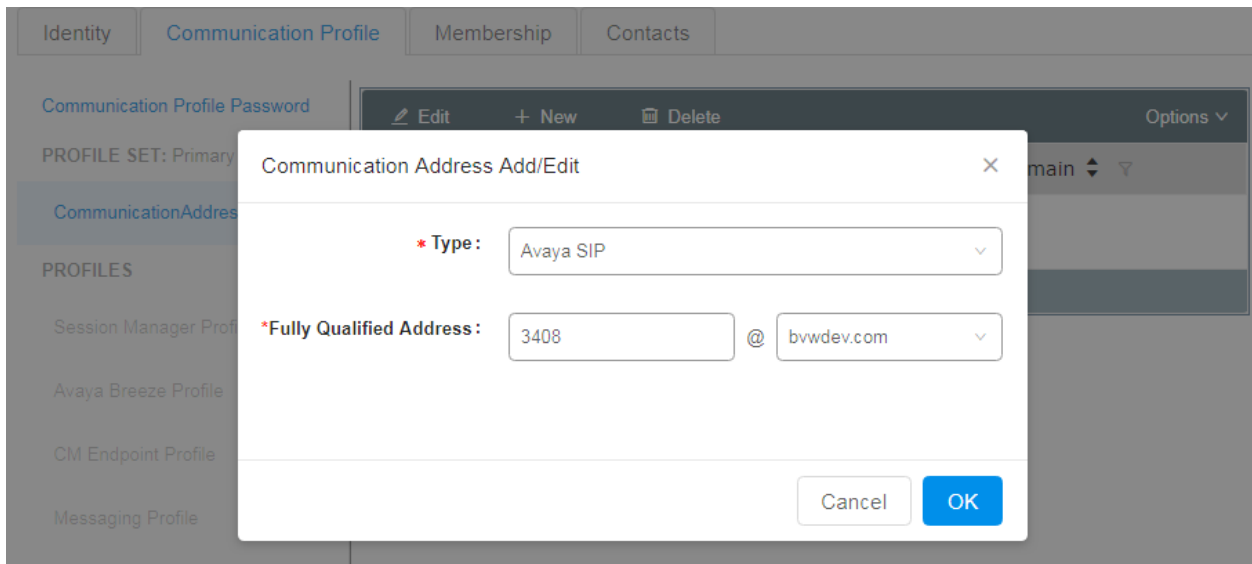
Password: User Type:

* 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 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: ASM70A

Secondary Session Manager: Start typing...

Survivability Server: Start typing...

Max. Simultaneous Devices: Select

Block New Registration When Maximum

Application Sequences

Origination Sequence: SEQ_InteropC...

Termination Sequence: SEQ_InteropC...

Emergency Calling Application Sequences

Emergency Calling Origination Sequence: Select

Emergency Calling Termination Sequence: Select

Call Routing Settings

* Home Location: BvwDevSIL

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_1** from the drop down list
- **Port** The “IP” is auto filled out by the system

Click on **Endpoint Editor**.

Home / Users R / 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_1

* 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 8138 Page extension.

7. Configure Algo 8138 SIP Multicolor Strobe Light

This section provides the procedures for configuring the Algo 8138 SIP Multicolor Strobe Light. The procedures include the following areas:

- Launch web interface.
- Administer configuration.

7.1. Launch Web Interface

Access the 8138 SIP Multicolor Strobe Light web-based interface by using the URL “http://ip-address” in an Internet browser window, where “ip-address” is the IP address of the Algo 8138. The **Welcome to the Algo 8138 SIP Multicolor Strobe Control Panel** screen is displayed, as shown below. Log in using the appropriate credentials.

ALGO 8138 SIP Multicolor Strobe Control Panel Firmware: 3.1.3

Welcome to the Algo 8138 SIP Multicolor Strobe Control Panel

Setting up your SIP Multicolor Strobe:

Step 1: Configure your SIP Multicolor Strobe
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 Multicolor Strobe (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 Multicolor Strobe (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	sipstrobe		
SIP Registration	Page Ring #1	Successful Successful	(Extension 4306) (Extension 4305)
Call Status	Idle		

7.2. Administer Algo 8138

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 configuration interface for the ALGO 8138 SIP Multicolor Strobe Control Panel. The top navigation bar includes tabs for Status, Basic Settings (selected), Additional Features, Scheduler, Advanced Settings, System, and Logout. The main content area is titled 'SIP Settings' and contains the following configuration fields:

- SIP Domain (Proxy Server):** Set to 'bvwddev.com'. A note indicates the default port is 5060 and provides examples for specifying a different port.
- Ring/Alert Mode:** Radio buttons for 'Monitor "Ring" event on registered SIP extension' (selected) and 'None'.
- Ring Extension:** Set to '3407'.
- Authentication ID:** Set to '3407'.
- Authentication Password:** Masked with '....'.
- Display Name (Optional):** Set to 'Ring 8138'. A note explains that the device will detect inbound ring events and play an alerting tone until the call stops ringing.
- Page Extension:** Set to '3408'.
- Authentication ID:** Set to '3408'.
- Authentication Password:** Masked with '....'.
- Display Name (Optional):** Set to 'Page 8138'.

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 8138 SIP Multicolor Strobe Control Panel Firmware: 3.1.3

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

Network Admin Time Provisioning 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 "System > File Manager" tab to upload a certificate file renamed to 'sipclient.pem' in the 'certs' folder.</small>
SIPS Scheme	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Validate Server Certificate	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <small>Validate the SIP server against common certificate authorities. To validate against additional certificates, use the "System > File Manager" tab to upload a Base64 encoded X.509 certificate file in .pem, .cer, or .crt format to the 'certs/trusted' folder.</small>
Force Secure TLS Version	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <small>Enable this option to require TLS connections to use TLSv1.2.</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

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Aura® Session Manager and Algo 8138 SIP Multicolor Strobe Light.

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 8138 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 8.1 interface. The main content area is titled "User Registrations" and shows a table of 22 items. The table has the following columns: Details, Address, First Name, Last Name, Actual Location, IP Address, Remote Office, Shared Control, Simult. Devices, AST Device, and Registered. The Registered column has sub-columns for Prim, Sec, and Surv. Two rows are highlighted with a red box: the row for 3407@bvwddev.com and the row for 3408@bvwddev.com. Both rows have a checked box in the Prim sub-column of the Registered column.

	Details	Address	First Name	Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices	AST Device	Registered		
											Prim	Sec	Surv
<input type="checkbox"/>	▶ Show	---	Ascom	3419	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	▶ Show	---	Ascom	3420	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	▶ Show	3407@bvwddev.com	3407	SIP	---	172.16.199.6	<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	3408@bvwddev.com	3408	SIP	---	172.16.199.6	<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	172.16.199.10	<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	3406@bvwddev.com	3406	SIP	IP-Phone-Location	172.16.199.10	<input type="checkbox"/>	<input type="checkbox"/>	1/2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	▶ Show	3403@bvwddev.com	3403	SIP	---	192.168.199.200	<input type="checkbox"/>	<input type="checkbox"/>	1/1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8.2. Verify Algo 8138 SIP Multicolor Strobe Light

From the Algo 8138 web-based interface, select **Status** from the top menu. Verify that **SIP Registration** displays “Ring – Successful” and “Page – Successful”, as shown below.

The screenshot shows the web interface for the Algo 8138 SIP Multicolor Strobe. The top navigation bar includes the ALGO logo, the title "8138 SIP Multicolor Strobe Control Panel", and the firmware version "Firmware: 3.1.3". Below the navigation bar are tabs for "Status", "Basic Settings", "Additional Features", "Advanced Settings", "System", and "Logout". The "Status" tab is selected, and the "Device Status" sub-tab is active. The main content area displays a welcome message and four setup steps: 1. Configure your SIP Multicolor Strobe, 2. Check network settings (Optional), 3. Secure your SIP Multicolor Strobe (Optional), and 4. Register your SIP Multicolor Strobe (Optional). Below the steps is a "Status" section containing a table with the following data:

Status			
Device Name	sipstrobe		
SIP Registration	Page Ring #1	Successful Successful	(Extension 3408) (Extension 3407)
Call Status	Idle		
Proxy Status	Single proxy mode		
Security	TLS	Disabled	

The following tests were conducted to verify the solution between the Algo 8138 and Communication Manager and Session Manager.

- Verify that the incoming call to the bridged extension on the Communication Manager that rings the 8138 Ring and the 8138 Ring stops ringing if the bridge extension answers the call.
- Verify that the incoming call to the 8138 Page is automatically answered with clear audio path.
- Verify that the telephone that places the incoming call to the 8138 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 8138 goes into an idle state when the call is completed.
- Verify that the 8138 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 8138 SIP Multicolor Strobe Light 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, October 2019, Document Number 03-300509, Issue 1.
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Release 8.1, October 2019, Document Number 555-245-205, Issue 1.
- [3] Administering Avaya Aura® Session Manager, Release 8.1, Issue 1 October 2019
- [4] Administering Avaya Aura® System Manager, Release 8.1, Issue 1, October, 2019

Product documentation for the Algo 8138 SIP Multicolor Strobe Light products may be found at:

http://www.algosolutions.com/pdf/user_guides/8138%20User%20Guide.pdf

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