

Algo SIP Endpoints and Cisco Webex Calling Registration Guide

Need Help?

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Introduction

Algo SIP Endpoints can register to Cisco Webex Calling as a third-party SIP endpoint for voice paging, loud ringing, and emergency alerting.

This document provides instructions to set up the Algo IP Endpoints on the Cisco Webex Calling Control Hub (CH) administration portal. All tests were conducted with the Algo 8301 SIP Paging Adapter & Scheduler, 8186 SIP Horn, 8180 SIP Audio Alerter (G2), 8128 G2 SIP Strobe Light and 8201 SIP PoE Intercom. These are representative of all Algo IP speakers, paging adapters, visual alerters and door phones and similar registration steps would apply.

The firmware version tested on the Algo devices is 3.3.3. The devices with firmware 3.3.3 and above will register to Webex Calling.

Please note the following Algo devices that are supported with Webex Calling:

1. IP SPEAKERS & HORNS

- 8180 (G2)
- 8186
- 8188
- 8189
- 8190 & 8190S
- 8196
- 8198

2. IP PAGING ADAPTER

- 8301
- 8373

3. IP STROBE LIGHTS

- 8128 (G2)
- 8138

4. IP DOORPHONES/INTERCOMS

- 8028 (G2)
- 8063
- 8201
- 8300

5. IP CONTROLLERS

• 8300

Please see certain exceptions regarding unsupported devices below:

Note 1: The following endpoints are exceptions and cannot be registered to Cisco Webex Calling, as TLS/SRTP support is not available: 8180 SIP Audio Alerter(G1), 8028 SIP Doorphone(G1), 8128 Strobe Light(G1) and 8061 SIP Relay Controller. For more information, please contact Algo support.

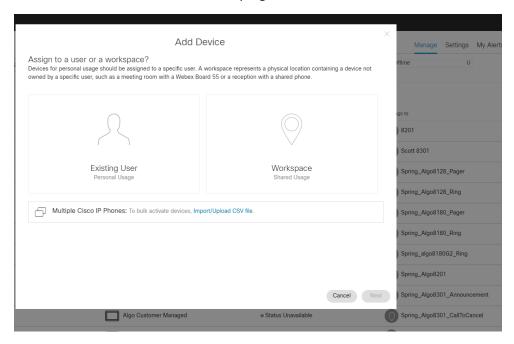
Note 2: The video intercoms 8039 and 8036 are exceptions as they do not support SDP SRTP encryption at the moment. Accordingly, they cannot be registered to Cisco Webex Calling.



Note 3: Currently, only a single endpoint can be assigned to a workspace. Devices cannot have multiple extensions registered to a same workspace.

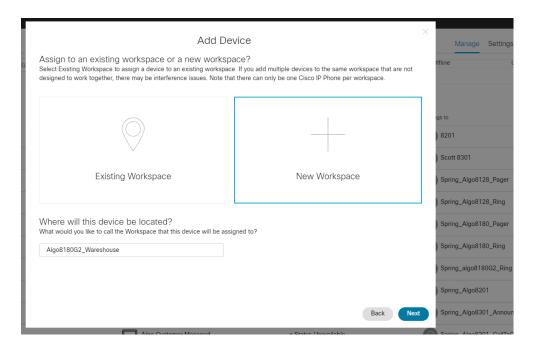
Configuration Steps – Webex Portal

1. Log in to the Webex Control Hub as the Organization's Administrator and select **Manage**Devices. Click on Add Device in the top right corner. The window shown below will open.

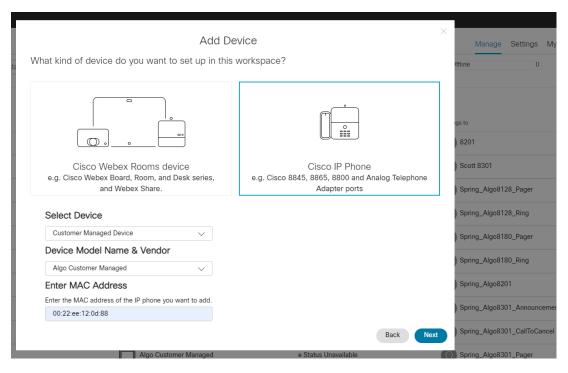


- 2. Assign a workspace to the device by selecting **Workspace**. Currently, only one workspace can be allocated to a device. Press **Next**.
- 3. If there is an existing workspace, that is not allocated yet, you may assign it by selecting **Existing Workspace** or create a new workspace by clicking the "+ New Workspace."
- 4. Enter a name or description for the Workspace that will be created (e.g., Algo8180G2_Warehouse), and press **Next**.





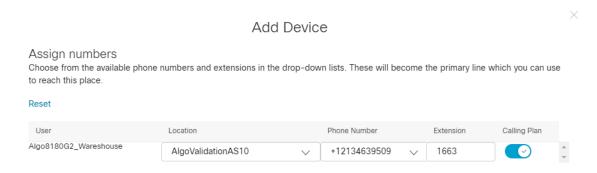
Select Cisco IP Phone to enter the device information. First, under the Select Device
dropdown select Customer Managed Device as the device type. For the Device Model
Name & Vendor, select Algo Customer Managed. Lastly, enter the MAC address of the
Algo endpoint (e.g. 00:22:ee:xx:xx:xx).



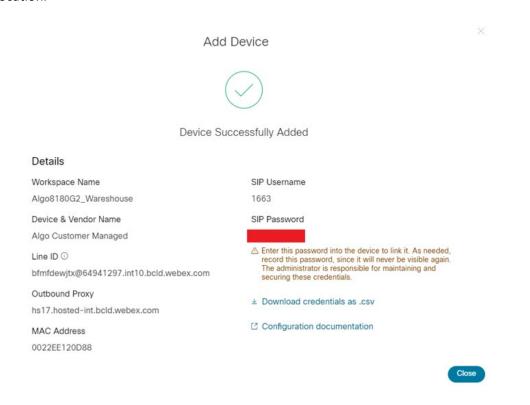
- 6. Click **Next** to proceed to the **Assign numbers** entry.
- 7. Select a Location for the Workspace.



- 8. Assign a phone number for the device if desired. It may be set as **None** if no phone number is required. Note that this can be added at a later time.
- 9. Enter the Extension to be assigned.
- 10. Click Save to proceed.



11. The Webex Control Hub will then generate the SIP credentials for the Algo endpoint. It's recommended to download the .csv file with the credentials and keep it in a secure location.

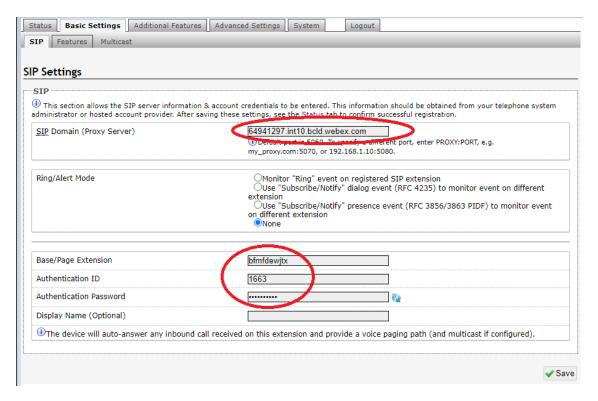




Configuration Steps – Algo Endpoint

- Open a web browser and log in to the Algo web interface, by entering the device's IP address. If you are not sure what is the IP address, check the Getting Started section in the <u>User Guide</u>.
- Log in and navigate to Basic Settings -> SIP tab. Enter the SIP credentials provided from Webex as per the table below. Please note the credentials below are an example, use the credentials generated by your Webex portal.

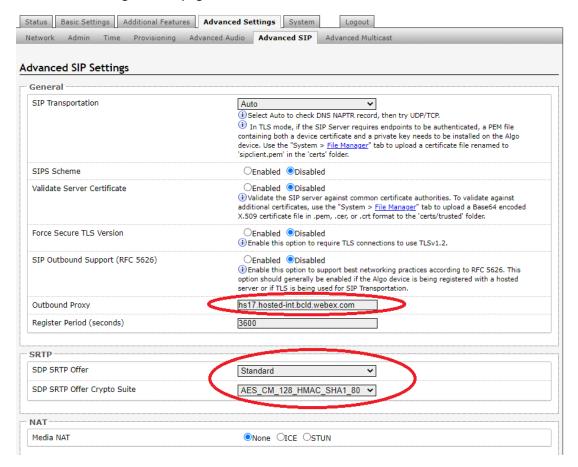
Webex Parameter	Algo Parameter
Line ID (Use only the portion after the "@")	SIP Domain (Proxy Server)
Line ID (Use only the portion before the "@")	Extension
SIP Username	Authentication ID
SIP Password	Authentication Password



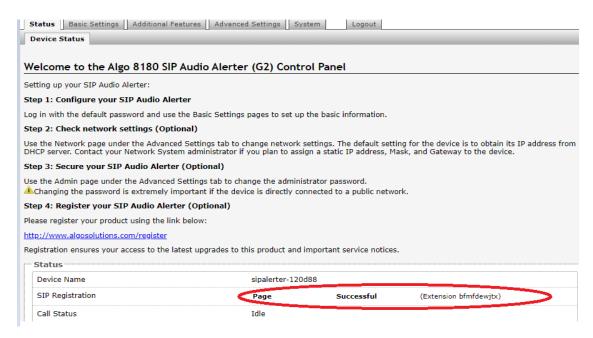
- Go to Advanced Settings > Advanced SIP tab.
- 4. Enter Outbound Proxy address provided by Webex.
- 5. Set the SDP SRTP Offer to **Standard**.
- 6. Set SDP SRTP Offer Crypto Suite to AES_CM_128_HMAC_SHA1_80.



7. Save all the settings on this page.



8. Confirm the device is registered successfully in the Status tab.



Once the Algo endpoint is registered, call it by dialing the extension. In this particular example, 1663.



Troubleshooting

SIP Registration Status = "Rejected by Server" (in the Status tab)

<u>Meaning</u>: The Webex server receives SIP Register packets from the endpoint and responds with an unauthorized message.

- Ensure the credentials (extension, authentication ID, password) on the device match on the Server.
- Under Basic Settings -> SIP, click on the blue circular arrows to the right of the
 Password field. If the Password is not what it should be, the web browser is probably
 auto filling the password field. If so, any change on a page containing a password could
 be filled in with an undesired string.

SIP Registration Status = "No reply from server" (in the Status tab)

Meaning: the device is not able to communicate across the network to the phone server.

- Double check the "SIP Domain (Proxy Server)", under Basic Settings -> SIP tab field is filled out correctly with the address of your server and port number.
- Check if the Outbound Proxy is correct under Advanced Settings -> Advanced SIP.
- Try changing the SIP Transportation Method (Advanced Settings -> Advanced SIP) from "Auto" to "TLS".
- Ensure the firewall (if present) is not blocking the incoming packets from the server.

Registration Drops Constantly

Enable the Keep-alive method. Navigate to Advanced Settings -> Advanced SIP, set Keep-alive to "Double CRLF" and set the period to 30 seconds.