

ALGO
8300 IP Controller
Algo IP Endpoints



8300 IP Controller Algo IP Endpoints User Guide

[Home](#) » [ALGO](#) » 8300 IP Controller Algo IP Endpoints User Guide 

Contents

- [1 8300 IP Controller Algo IP Endpoints](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 FAQ](#)
- [5 INTRODUCTION](#)
- [6 PAGING DEVICES](#)
- [7 LIMITED EXTENSION](#)
- [8 USER PHONE – FULL EXTENSION](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)



8300 IP Controller Algo IP Endpoints



Product Information

Specifications

- **Product Name:** AT&T Office@Hand SIP Registration Guide for Algo IP Endpoints
- **Manufacturer:** Algo Communication Products Ltd.
- **Address:** 4500 Beedie Street, Burnaby V5J 5L2, BC, Canada
- **Contact:** 1-[604-454-3790](tel:604-454-3790)
- **Website:** www.algosolutions.com

Product Usage Instructions

Introduction

- AT&T Office@Hand is a business phone system that offers enterprise-grade features, including auto-receptionist and multiple extensions.

Paging Devices

- Devices provisioned as paging devices do not have a phone number or internal extension.
- Registration via Paging Devices allows your Algo IP device to be registered to AT&T Office@Hand for public announcing.

Configuration

1. Log in to AT&T Office@Hand and navigate to Phone System > Phones & Devices > Paging Devices.
2. Click + Add Device to add a new device.
3. Enter a Device Nickname, which will be the name of your SIP-enabled IP paging device within AT&T Office@Hand.
4. Click Next to view the SIP credentials for your new device.

5. Access the web interface for your Algo IP endpoint and go to Basic Settings > SIP. Fill in the required fields with the SIP information for your device.

FAQ

Q: Where can I find additional information on using the AT&T Office@Hand platform?

A: For more details on using the platform, refer to the AT&T Office@Hand User Guide.

Q: Where can I get device-specific configuration details?

A: For information on configuring your specific Algo product, consult the user guide provided with your device.

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INTRODUCTION

- AT&T Office@Hand is a business phone system that connects employees with one solution. It offers enterprise-grade features, including auto-receptionist, multiple extensions, and more.
- This SIP registration guide will demonstrate three methods for integrating Algo IP endpoints with AT&T Office@Hand. These methods are listed by functions within AT&T Office@Hand: Paging Device, Limited Extension, and User Phones.
- The best method will depend on the Algo IP endpoint being provisioned and its intended application.
- For additional information on how to use the platform, see the [AT&T Office@Hand User Guide](#).
- This guide only outlines configuration details for registering Algo IP endpoints to AT&T Office@Hand. For additional information on device configuration, see the [user guide for your specific Algo product](#).

PAGING DEVICES

- Devices provisioned as paging devices do not have a phone number or internal extension. Registration via Paging Devices allows your Algo IP device to be registered to AT&T Office@Hand for public announcing.
- **Recommend use:**
 - One-way paging (single or multi-site)
- **Do not use for:**
 - Two-way communication

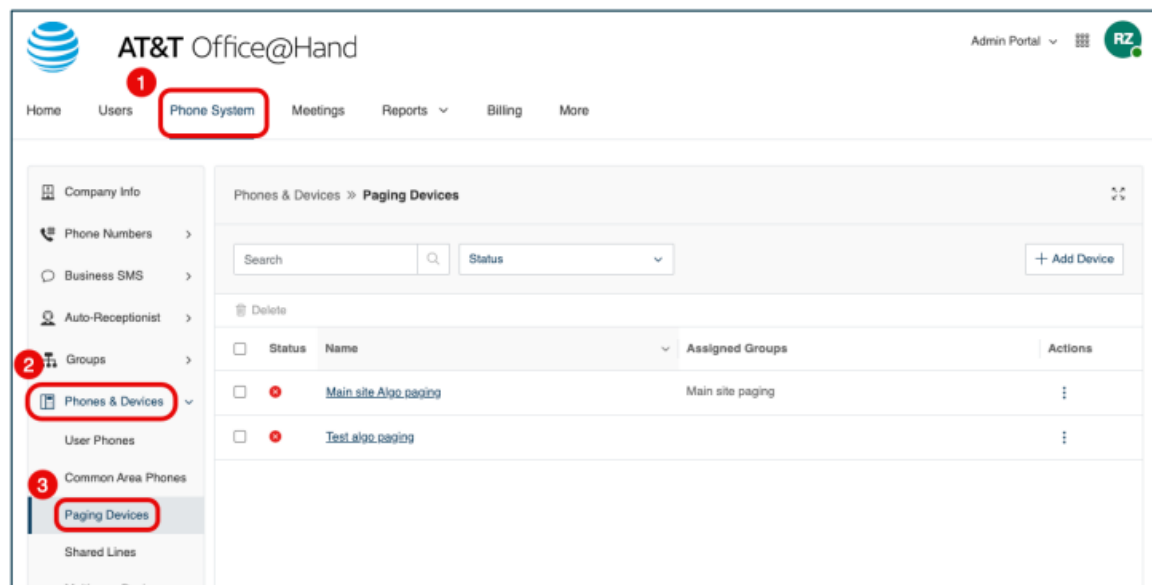
- Initiate calls
- Receive regular telephone calls
- Any application requiring DTMF, such as DTMF zoning and DTMF for door control
- Loud or night ringer

Configuration

You will need to open both AT&T Office@Hand and the web interface for your Algo IP endpoint to register your device.

To begin:

1. [Log-in to AT&T Office@Hand](#) and open Phone System → Phones & Devices → Paging Devices.



2. Click + Add Device in the top right corner of the table to add a new device.
3. Enter a Device Nickname, which will be the name of your SIP-enabled IP paging device within AT&T Office@Hand.
4. Click Next to see the SIP credentials for your new device. You can also click on your new device from the table to access these details.

The screenshot shows the 'Add Paging Device' form with the 'Provisioning Info' tab selected. The form includes a 'Device Nickname' field and a 'Provisioning Info' section. The provisioning information section contains the following steps and fields:

- Step 1: The device must support Transport Protocol version TLS 1.2 if you use secure voice transport on this device
- Step 2: Set TLS on your device's Transport Protocol
- Step 3: Enable Offer and Answer on the device's SRTP (Secure Real-Time Transport Protocol)
- Step 4: Configure SIP information

The SIP information fields are:

Field	Value
SIP Domain	sip.ringcentral.com:5060
Remote SIP port	5060
Local SIP port	5060
Outbound Proxy	Please select outbound proxy according to the location of your device
Outbound Proxy Port	5096
User Name	
Password	
Authorization ID	

A 'Done' button is located at the bottom right of the form.

5. Open the web interface for your Algo IP endpoint and go to the tabs Basic Settings → SIP. Use the SIP

information for your device to fill out the following fields.

Algo IP Endpoint Web Interface Fields	AT&T Office@Hand Fields
SIP Domain (Proxy Server)	SIP Domain
Page Extension	User Name
Authentication ID	Authorization ID
Authentication Password	Password

The screenshot shows the 'SIP Settings' page in a web interface. At the top, there are tabs: Status, Basic Settings, Additional Features, Scheduler, Advanced Settings, System, and Logout. Below the tabs, there are sub-tabs: SIP, Features, and Multicast. The 'SIP' sub-tab is selected. The main content area is titled 'SIP Settings' and contains a message: 'This section allows the SIP server information & account credentials to be entered. This information should be obtained from your telephone system administrator or hosted account provider. After saving these settings, see the Status tab to confirm successful registration.' Below this message are several input fields: 'SIP Domain (Proxy Server)' (circled in red), 'Ring/Alert Mode' (with radio buttons for 'Monitor "Ring" event on registered SIP extension' and 'None'), 'Page Extension' (circled in red), 'Authentication ID' (circled in red), 'Authentication Password' (circled in red), and 'Display Name (Optional)'. A 'Save' button is located at the bottom right of the form.

6. Now go to the tabs Advanced Settings → Advanced SIP and fill out the following fields.

Algo IP Endpoint Web Interface Fields	
SIP Transportation	Click the dropdown and set it to TLS .
Outbound Proxy	Retrieve the Outbound Proxy from AT&T Office@Hand.
SDP SRTP Offer	Click the dropdown and set it to Standard .
SDP SRTP Offer Crypto Suite	Click the dropdown and set it to All Suites .

Advanced SIP Settings

General

SIP Transportation (circled in red)

TLS

④ Select Auto to check DNS NAPTR record, then try UDP/TCP.
④ 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.

SIPS Scheme ☐ Enabled ☒ Disabled

Validate Server Certificate ☐ Enabled ☒ Disabled

④ 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.

SIP Outbound Support (RFC 5626) ☐ Enabled ☒ Disabled

④ Only enable this option if the SIP server supports RFC 5626.

Outbound Proxy (circled in red)

Register Period (seconds)

SRTP

SDP SRTP Offer (circled in red)

SDP SRTP Offer Crypto Suite (circled in red)

NAT

Media NAT ☒ None ☐ JCF ☐ STUN

7. Verify the SIP Registration status on the tabs Status → Device

Device Status

Welcome to the Algo 8301 IP Paging Adapter & Scheduler

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

Status

Device Name	pagingadapter-002709	
SIP Registration (circled in red)	Page	Successful
Call Status	Idle	
Proxy Status	Singing proxy server	

8. Check the registration status in the AT&T Office@Hand web admin portal.

AT&T Office@Hand

Admin Portal

Home Users Phone System Meetings Reports Billing More

Phones & Devices > **Paging Devices**

Search Status

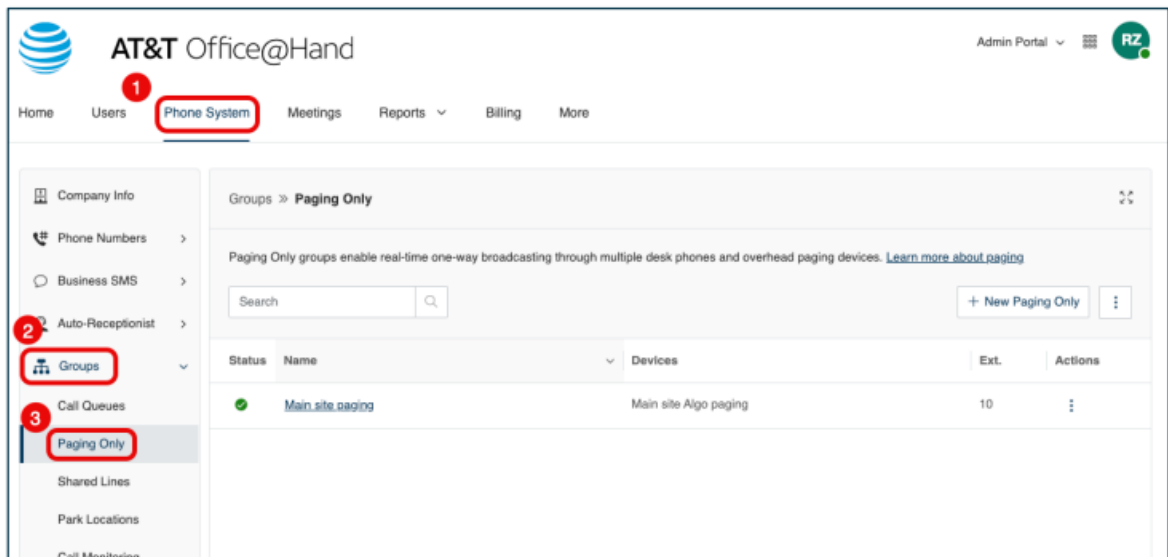
+ Add Device

Delete

Status	Name	Assigned Groups	Actions
<input checked="" type="checkbox"/> (circled in red)	Main site Algo paging	Main site paging	⋮

Company Info
Phone Numbers
Business SMS
Auto-Receptionist
Groups
Phones & Devices
User Phones
Common Area Phones
Paging Devices
Shared Lines

9. Once completed, the device must be added to a Paging Only Group to be used. A paging-only group is a collection of paging devices or desk phones that can receive a paging call. Go to Phone System → Groups → Paging Only to begin.

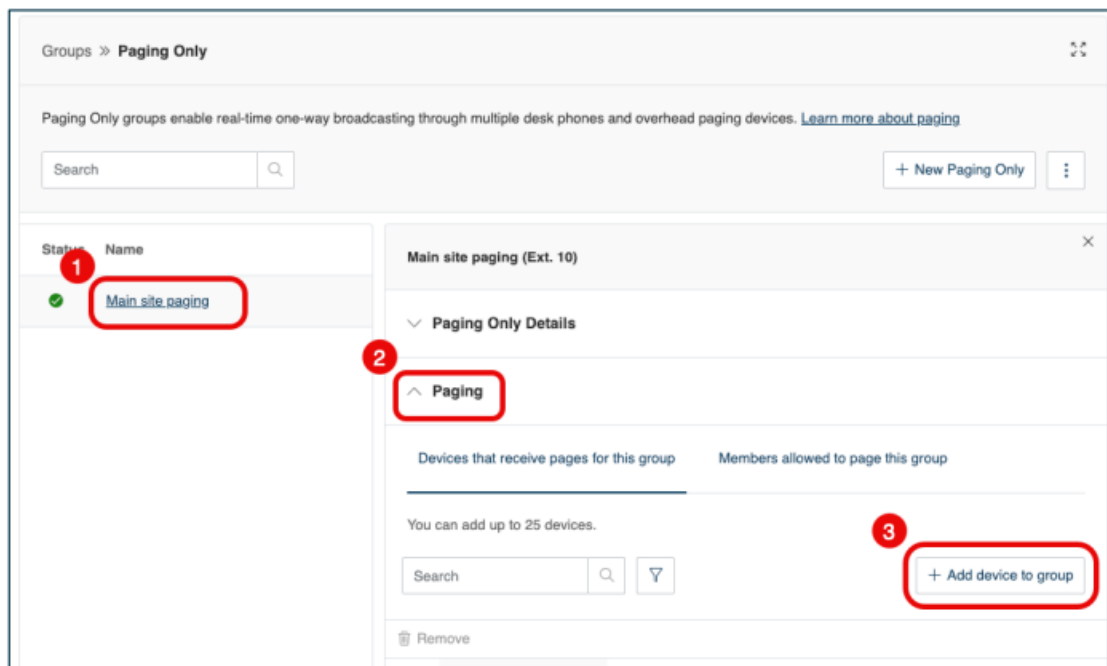


10. If no Paging Only groups exist, click + New Paging Only in the top right corner of the table. Fill out the Group Name and click Save.

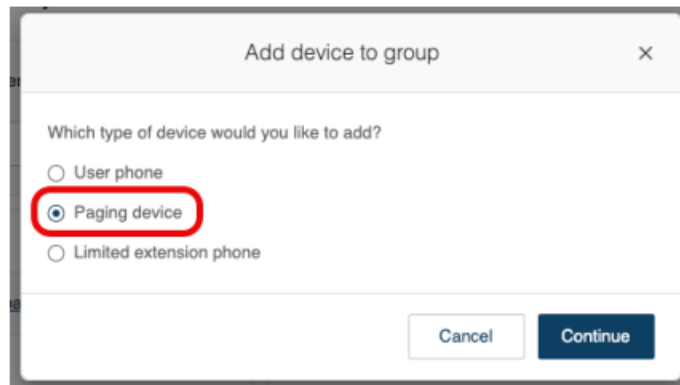
The 'Add Paging Group' modal form contains the following fields and options:

- Group Name:** A text input field.
- Extension Number:** A text input field with the value '11'.
- Automatic Call Recording:** A checkbox labeled 'Inbound' which is currently unchecked.
- Buttons:** 'Cancel' and 'Save' buttons at the bottom right.

11. To add your Algo IP endpoint to a Paging Only group, click on the group name in the table and expand the Paging section. Click + Add device to group in the top right corner of the table.



12. Select the Paging device, click Continue, and select the Algo IP endpoint(s) to add to the group.



13. You may now page the connecting paging device. To do so, dial *84. When prompted, enter the page group extension number followed by #.

LIMITED EXTENSION

LIMITED EXTENSION – COMMON AREA PHONE

The AT&T Office@Hand Limited Extension is an extension with features limited primarily to calling. This extension has limited features and is not tied to a user.

Recommend use:

- Two-way communication using Algo IP speakers or intercoms
- Initiating or receiving regular telephone calls
- DTMF zoning (multicast or analog zone controller)
- Door control (via DTMF) with intercoms

Do not use for:

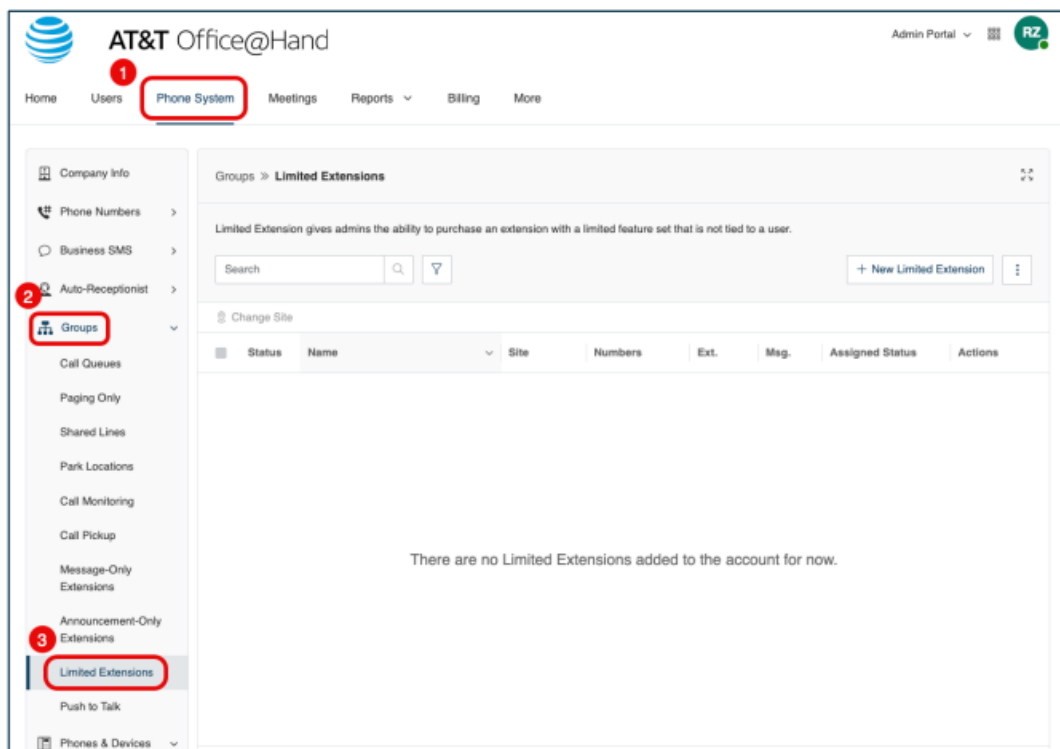
- Loud or night ringer (call queue membership is not supported)
- One-way paging (single or multi-site). Using the Paging Devices method is a simpler option.

Configuration

You will need to open both AT&T Office@Hand and the web interface for your Algo IP endpoint to register your device.

To begin:

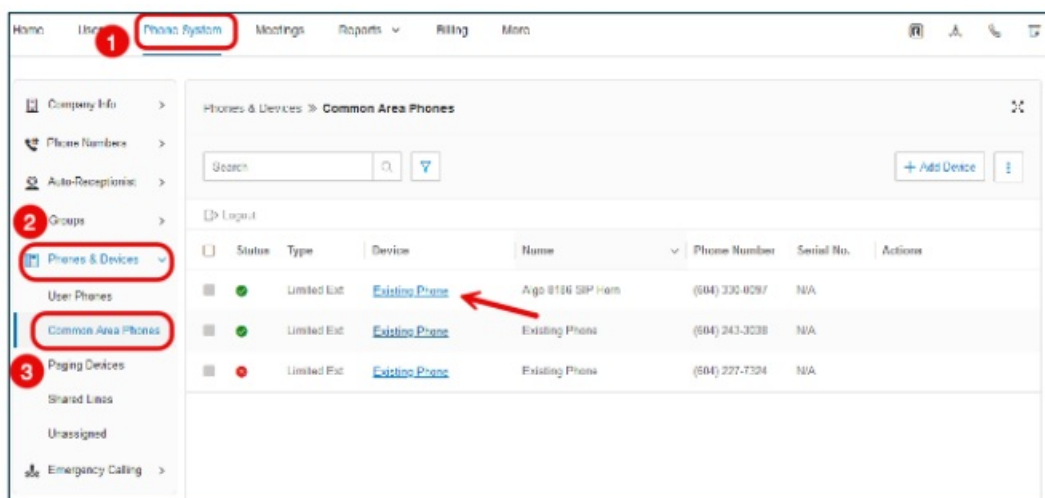
1. [Log-in to AT&T Office@Hand](#) and open Phone System → Groups → Limited Extensions.



- Click + New Limited Extension in the top right corner of the table or enable an existing one. If creating a new extension, fill out the Limited Extensions fields and Shipping Info fields.

The 'Add Limited Extensions' modal window is shown. It has three steps: 1 Add Limited Extensions, 2 Add Shipping Info, and 3 Confirm. The first step is active. It displays 'Limited Extension - Domestic DigitalLine Basic available: 0'. Below this, it states: 'If the quantity of licenses added exceeds the available amount, you will be charged for the extra licenses to the selected Cost Center.' The form includes fields for Qty, Cost Center (dropdown), State/Province (dropdown), Area Code (dropdown), Number Option (dropdown), Site (dropdown), and Device (dropdown). There is an 'Add' button and a 'Cancel' button. A link 'Can't find the area code you're looking for?' is also present.

- Navigate to Phone System → Phones & Devices → Common Area Phones. Click on Existing Phone for the Limited Extension you would like to use.



- In the Setup & Provisioning window, select your device by going to the Other Phones tab and selecting Existing Phone.

- You will now see your SIP credentials.

5. You will now see your SIP credentials. Open the web interface for your Algo IP endpoint and go to the tabs Basic Settings → SIP. Use the SIP information for your device to fill out the following fields.

Algo IP Endpoint Web Interface Fields	AT&T Office@Hand Fields
SIP Domain (Proxy Server)	SIP Domain
Page Extension	User Name
Authentication ID	Authorization ID
Authentication Password	Password

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

SIP Features Multicast

SIP Settings

SIP

This section allows the SIP server information & account credentials to be entered. This information should be obtained from your telephone system administrator or hosted account provider. After saving these settings, see the [Status](#) tab to confirm successful registration.

SIP Domain (Proxy Server)

Default port is 5060. To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5080.

Ring/Alert Mode ☐ Monitor "Ring" event on registered SIP extension ☒ None

Page Extension

Authentication ID

Authentication Password

Display Name (Optional)

The device will auto-answer any inbound call received on this extension and provide a voice paging path (and multicast if configured).

[Save](#)

6. Now go to the tabs Advanced Settings → Advanced SIP and fill out the following fields.

Algo IP Endpoint Web Interface Fields	
SIP Transportation	Click the dropdown and set it to TLS .
Outbound Proxy	Retrieve the Outbound Proxy from AT&T Office@Hand.
SDP SRTP Offer	Click the dropdown and set it to Standard .
SDP SRTP Offer Crypto Suite	Click the dropdown and set it to All Suites .

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

Network Admin Users Time Provisioning Advanced Audio **Advanced SIP** Advanced Multicast

Advanced SIP Settings

General

SIP Transportation

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.

SIPS Scheme ☐ Enabled ☒ Disabled

Validate Server Certificate ☐ Enabled ☒ Disabled

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.

SIP Outbound Support (RFC 5626) ☐ Enabled ☒ Disabled

Only enable this option if the SIP server supports RFC 5626.

Outbound Proxy

Register Period (seconds)

SRTP

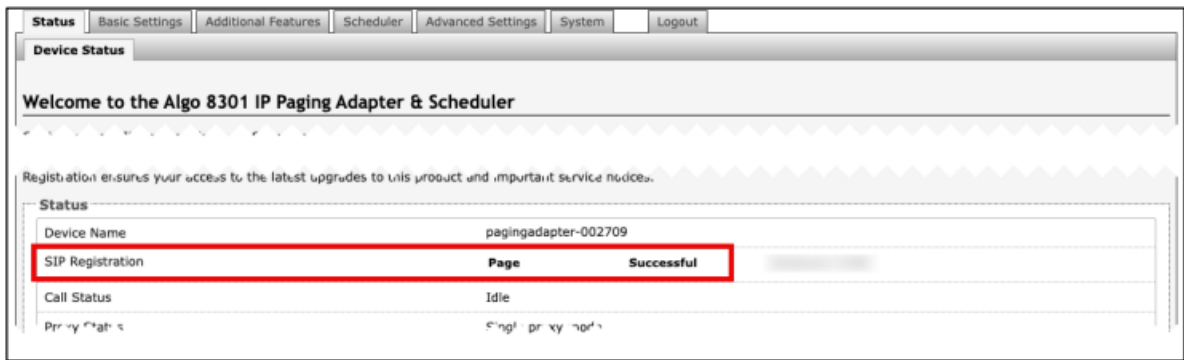
SDP SRTP Offer

SDP SRTP Offer Crypto Suite

NAT

Media NAT ☒ None ☐ ICF ☐ STUN

7. Verify the SIP Registration status on the tabs Status → Device.



USER PHONE – FULL EXTENSION

An AT&T Office@Hand full extension is possible for user phones. This creates a digital line that can initiate or receive regular telephone calls.

- **Recommend use:**

- Loud or night ringer (call queue membership is supported)

- **Do not use for:**

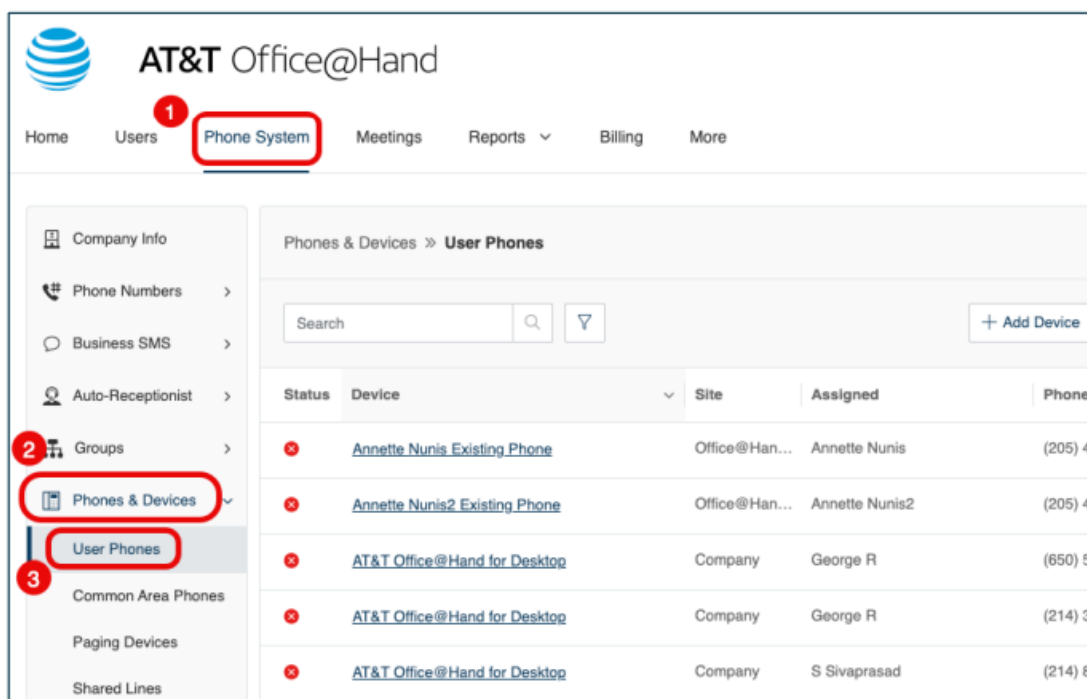
- Any other application besides loud or night ringing. Other methods are better suited for applications outside of loud or night ringing.
- See Paging Devices and Limited Extensions above for more details.

Configuration

You will need to open both AT&T Office@Hand and the web interface for your Algo IP endpoint to register your device.

To begin:

1. Log-in to AT&T Office@Hand and open Phone System → Phones & Devices → User Phones



2. Click + Add Device in the top right corner of the table to add a new device.

3. Set the requested fields as needed in the new window. When selecting a device, go to the tab Other Phones and select Existing Phone.

The screenshot shows the 'Add User Phones' window with a progress bar at the top indicating steps: 1. Select User, 2. Select Devices, 3. Select Numbers, 4. Add Emergency Response Location, 5. Add Shipping Info, 6. Confirm. The 'Select Devices' section has tabs for 'Recently Bought', 'Desktop Phones', and 'Other Phones'. The 'Other Phones' tab is selected, showing 'AT&T Office@Hand Phone' and 'Existing Phone' (Price: FREE). The 'Devices Added' table is empty, showing 'No device added'. Red circles and boxes highlight the 'Select Devices' tab, the 'Other Phones' sub-tab, and the 'Existing Phone' option.

4. After you have completed the process of adding a new user phone, set up and provision your device by either:

- a. Clicking on the device and clicking Set Up and Provision on the next page.

The screenshot shows the 'Existing Phone' setup page. It includes a 'Device' section with 'Existing Phone' and a 'Name' field with 'Annette Nunis Existing Phone'. The 'Set Up and Provision' button is highlighted with a red box. Other fields include 'Serial Number: N/A', 'Assigned Type: User Phone', and 'Status: Offline'.

- b. Clicking on the kebob icon on the right side of the device's row and selecting Set Up and Provision.

The screenshot shows the 'User Phones' table with columns: Status, Device, Site, Assigned, Phone Number, Serial No., and Actions. The first row is highlighted, and the kebob menu is open, showing 'Set Up and Provision' as the selected option. Red circles and boxes highlight the kebob icon and the 'Set Up and Provision' option.

Status	Device	Site	Assigned	Phone Number	Serial No.	Actions
●	Annette Nunis Existing Phone	Office@Han...	Annette Nunis	(205) 419-4498	N/A	⋮
●	Annette Nunis2 Existing Phone	Office@Han...	Annette Nunis2	(205) 419-4290		Set Up and Provision
●	AT&T Office@Hand for Desktop	Company	George R	(850) 537-2463		Change Phone
●	AT&T Office@Hand for Desktop	Company	George R	(214) 380-0090	N/A	Reassign to

5. In the Setup & Provisioning window, click Set up manually using SIP

The screenshot shows the 'Setup & Provisioning' window with steps: 1. Select Device, 2. Provisioning, 3. Finish. The 'Set up manually using SIP' option is highlighted with a red box. The 'Select your model to begin' section includes a search bar and a link to 'Set up manually using SIP'.

- You will now see your SIP details.

Setup & Provisioning

✓ Select Device ✓ Provisioning **3 Finish**

Manual Provisioning
To connect your device with AT&T Office@Hand services, setup your device following the steps below. Configuration for each device may vary, please check with your device's manufacturer for specific instructions.

Step 1: The device must support Transport Protocol version TLS 1.2 if you use secure voice transport on this device

Step 2: Set TLS on your device's Transport Protocol

Step 3: Enable Offer and Answer on the device's SRTP (Secure Real-Time Transport Protocol)

Step 4: Configure SIP Information

Field	Value
SIP Domain	sip.ringcentral.com:5060
Remote SIP port	5060
Local SIP port	5060
Outbound Proxy	Please select outbound proxy according to the location of your device
Outbound Proxy Port	5096
User Name	
Password	
Authorization ID	

Copy

Done

6. Open the web interface for your Algo IP endpoint and go to the tabs Basic Settings → SIP. Use the SIP information for your device to fill out the following fields.

Algo IP Endpoint Web Interface Fields	AT&T Office@Hand Fields
SIP Domain (Proxy Server)	SIP Domain
Page Extension	User Name
Authentication ID	Authorization ID
Authentication Password	Password

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

SIP Features Multicast

SIP Settings

SIP
 ⓘ This section allows the SIP server information & account credentials to be entered. This information should be obtained from your telephone system administrator or hosted account provider. After saving these settings, see the [Status](#) tab to confirm successful registration.

SIP Domain (Proxy Server) sip.ringcentral.com:5060
 ⓘ Default port is 5060. To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5080.

Ring/Alert Mode ☐ Monitor "Ring" event on registered SIP extension
☒ None

Page Extension

Authentication ID

Authentication Password ⓘ

Display Name (Optional)

ⓘ The device will auto-answer any inbound call received on this extension and provide a voice paging path (and multicast if configured).

Save

7. Now go to the tabs Advanced Settings → Advanced SIP and fill out the following fields.

Algo IP Endpoint Web Interface Fields	
SIP Transportation	Click the dropdown and set it to TLS . Enabling
Outbound Proxy	Retrieve the Outbound Proxy from AT&T Office@Hand.
SDP SRTP Offer	Click the dropdown and set it to Standard .
SDP SRTP Offer Crypto Suite	Click the dropdown and set it to All Suites .

The screenshot shows the 'Advanced SIP Settings' page. The 'General' section contains the following settings:

- SIP Transportation:** TLS (dropdown menu)
- SIPS Scheme:** Disabled (radio buttons)
- Validate Server Certificate:** Disabled (radio buttons)
- SIP Outbound Support (RFC 5626):** Disabled (radio buttons)
- Outbound Proxy:** sip10.ringcentral.biz:5096 (text input)
- Register Period (seconds):** 3600 (text input)

The 'SRTP' section contains the following settings:

- SDP SRTP Offer:** Standard (dropdown menu)
- SDP SRTP Offer Crypto Suite:** All Suites (dropdown menu)

The 'NAT' section contains the following setting:

- Media NAT:** None (radio buttons)

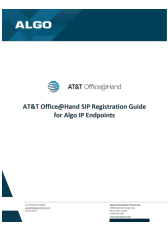
8. Verify the SIP Registration status on the tabs Status → Device

The screenshot shows the 'Device Status' page. The table displays the following information:

Device Name	SIP Registration	Call Status	Priority Status
pagingadapter-002709	Successful	Idle	Single priority

- UG- ATTOAH-07102024
- support@algosolutions.com
- UG-ATTOAH-07102024 support@algosolutions.com July 10, 2024
- Algo Communication Products Ltd. 4500 Beedie Street, Burnaby
- V5J 5L2, BC, Canada
- 1-604-454-3790
- www.algosolutions.com
- Algo Technical Support
- 1-604-454-3792
- support@algosolutions.com

Documents / Resources

	<p>ALGO 8300 IP Controller Algo IP Endpoints [pdf] User Guide 8300 IP Controller Algo IP Endpoints, 8300, IP Controller Algo IP Endpoints, Controller Algo IP Endpoints, Endpoints</p>
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References

- [A Home - Algo Communication Products Ltd.](#)
- [Redirecting](#)
- [User Manual](#)

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