

ALGO



AT&T Office@Hand

AT&T Office@Hand SIP Registration Guide for Algo IP Endpoints

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1 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](#).

2 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)

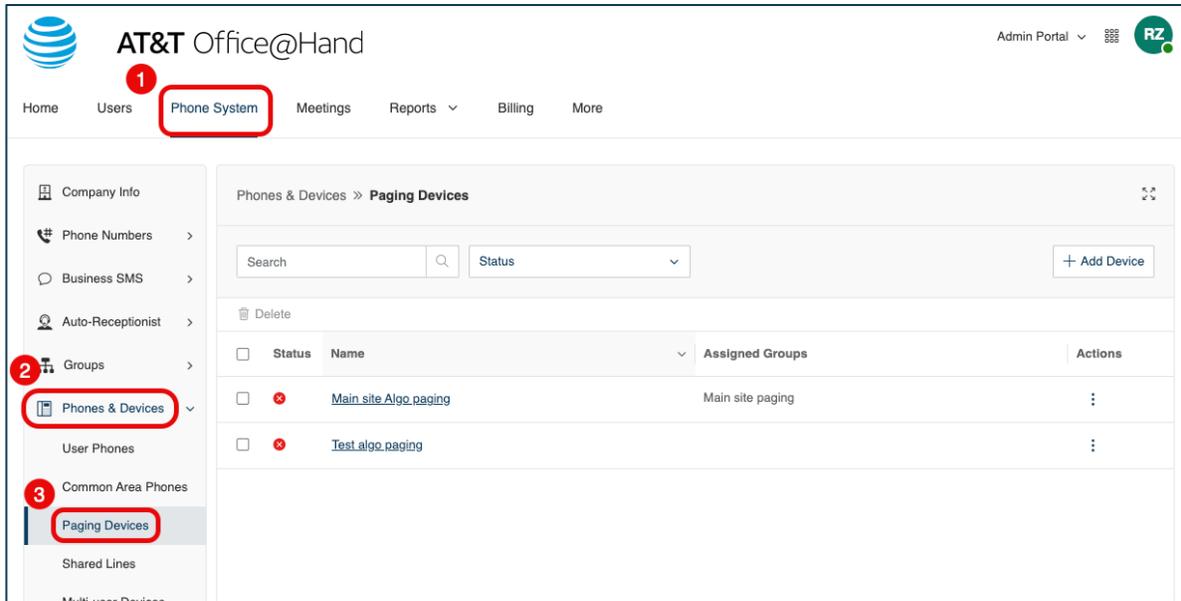
Do not use for:

- 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

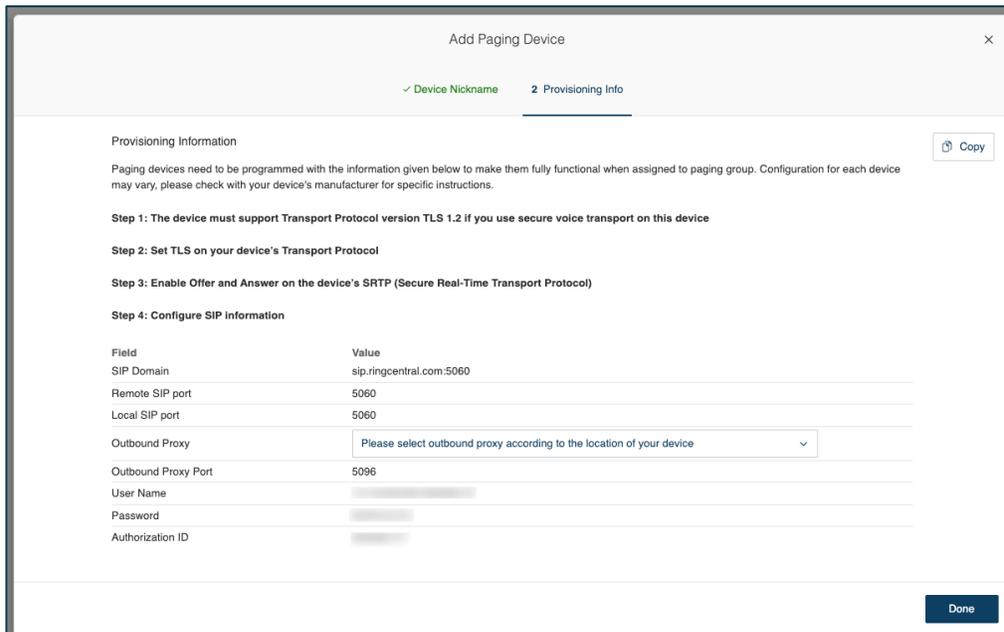
2.1 Configuration

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.



- 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 the Algo web interface. At the top, there are navigation tabs: Status, **Basic Settings**, Additional Features, Scheduler, Advanced Settings, System, and Logout. Below the tabs, there are sub-tabs: SIP, Features, and Multicast. The main heading is 'SIP Settings'. A help icon and text state: '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.' The 'SIP Domain (Proxy Server)' field is circled in red and contains 'sip.ringcentral.com:5060'. A note below it says: 'Default port is 5060. To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5080.' The 'Ring/Alert Mode' section has two radio buttons: 'Monitor "Ring" event on registered SIP extension' (unselected) and 'None' (selected). Below this, the 'Page Extension', 'Authentication ID', and 'Authentication Password' fields are circled in red. The 'Page Extension' field is empty. The 'Authentication ID' field is empty. The 'Authentication Password' field contains eight asterisks. The 'Display Name (Optional)' field is empty. At the bottom, there is a help icon and text: 'The device will auto-answer any inbound call received on this extension and provide a voice paging path (and multicast if configured).' A 'Save' button with a green checkmark is located at the bottom right.

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 to TLS .
Outbound Proxy	Retrieve the Outbound Proxy from AT&T Office@Hand.
SDP SRTP Offer	Click the dropdown and set to Standard .
SDP SRTP Offer Crypto Suite	Click the dropdown and set to All Suites .

The screenshot shows the 'Advanced SIP Settings' page with the following configurations:

- General**
 - SIP Transportation: TLS
 - SIP Scheme: Disabled
 - Validate Server Certificate: Disabled
 - SIP Outbound Support (RFC 5626): Disabled
 - Outbound Proxy: sip10.ringcentral.biz:5096
 - Register Period (seconds): 3600
- SRTP**
 - SDP SRTP Offer: Standard
 - SDP SRTP Offer Crypto Suite: All Suites
- NAT**
 - Media NAT: None

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

The screenshot shows the 'Device Status' page for the Algo 8301 IP Paging Adapter & Scheduler. The page has a navigation bar with tabs: Status, Basic Settings, Additional Features, Scheduler, Advanced Settings, System, and Logout. Below the navigation bar, there is a 'Device Status' section with a welcome message and a registration notice. A table displays the device's status:

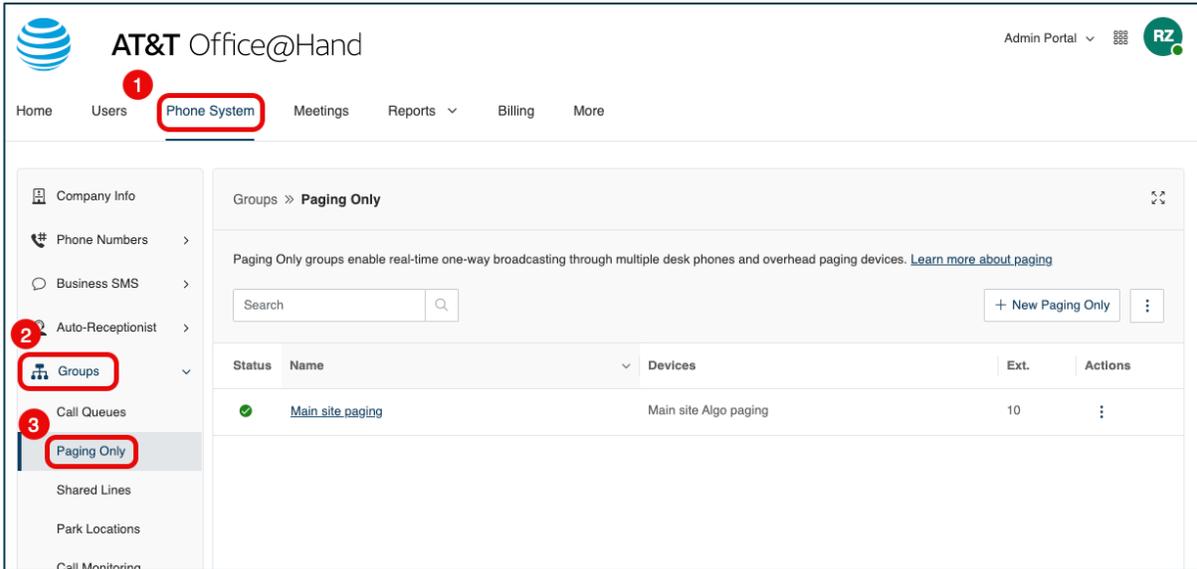
Field	Value
Device Name	pagingadapter-002709
SIP Registration	Page Successful
Call Status	Idle
Proxy Status	Single proxy mode

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

The screenshot shows the AT&T Office@Hand web admin portal. The top navigation bar includes the AT&T logo, the text 'AT&T Office@Hand', and an 'Admin Portal' dropdown. Below the navigation bar, there is a sidebar with menu items: Home, Users, Phone System, Meetings, Reports, Billing, and More. The main content area is titled 'Phones & Devices >> Paging Devices'. It features a search bar, a 'Status' dropdown, and an '+ Add Device' button. Below these elements is a table with columns: Status, Name, Assigned Groups, and Actions. The table contains one entry: 'Main site Algo paging' with a green checkmark in the 'Status' column, indicating successful registration. A red arrow points to the green checkmark.

- 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.



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

Add Paging Group ✕

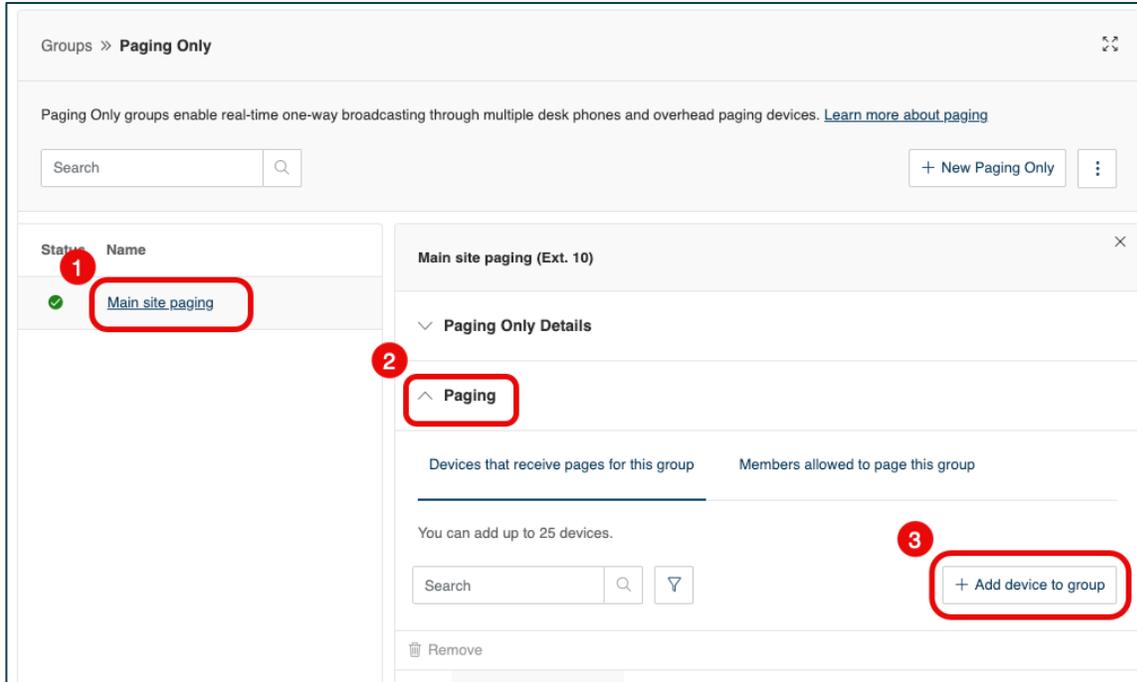
Group Name

Extension Number

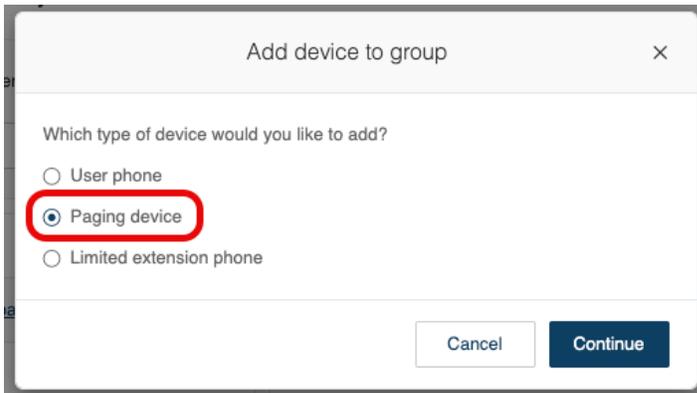
Automatic Call Recording

Inbound

- 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.



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



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

3 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

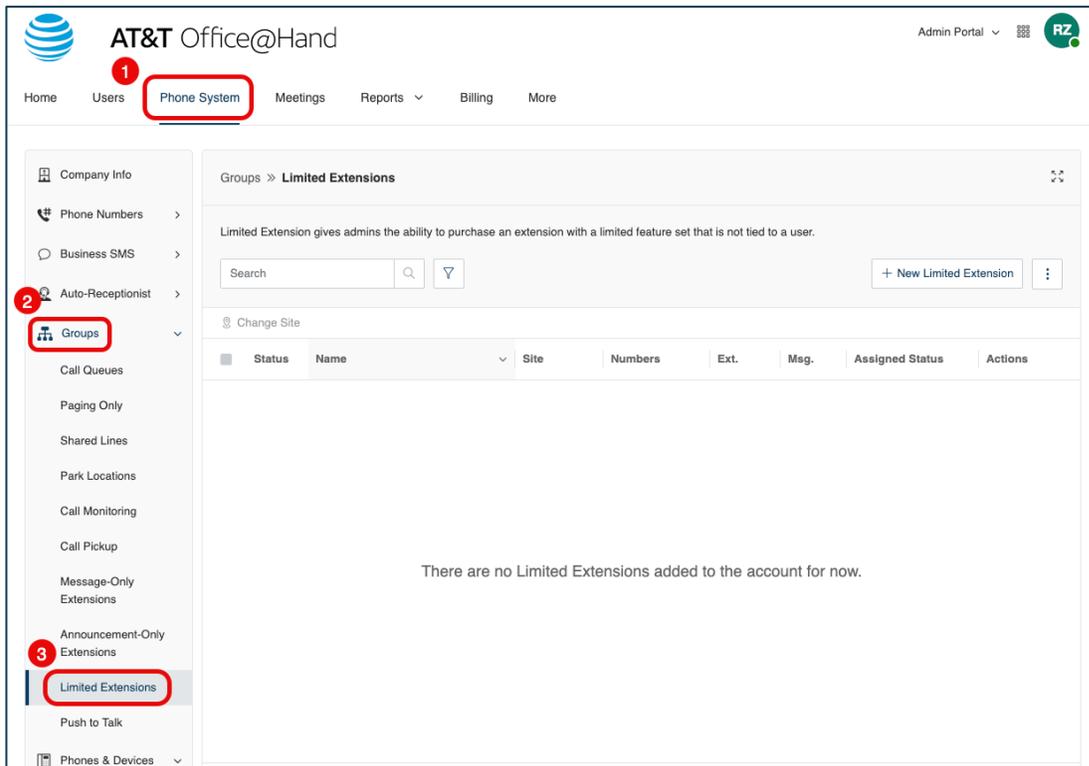
Do not use for:

- 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.

3.1 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.

- 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 select **Existing Phone**.

You will now see your SIP credentials.

The screenshot shows a 'Setup & Provisioning' window with three tabs: 'Select Device', 'Provisioning', and 'Finish'. Under 'Manual Provisioning', there are four steps:

- Step 1: Will you be using secure voice transport on this device? (Yes selected)
- 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:

- SIP Domain: sip.ringcentral.com:5060
- Remote SIP port: 5060
- Local SIP port: 5060
- Outbound Proxy: sip10.ringcentral.com:5060
- Outbound Proxy Port: 5060
- User Name: [Redacted]
- Password: [Redacted]
- Authorization ID: [Redacted]

- 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

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 to TLS .
Outbound Proxy	Retrieve the Outbound Proxy from AT&T Office@Hand.
SDP SRTP Offer	Click the dropdown and set to Standard .
SDP SRTP Offer Crypto Suite	Click the dropdown and set to All Suites .

Advanced SIP Settings

General

SIP Transportation TLS

ⓘ 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 sip10.ringcentral.biz:5096

Register Period (seconds) 3600

SRTP

SDP SRTP Offer Standard

SDP SRTP Offer Crypto Suite All Suites

NAT

Media NAT None ICF 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	Page	Successful
Call Status	Idle	
Proxy Status	Single proxy mode	

4 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.

4.1 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:

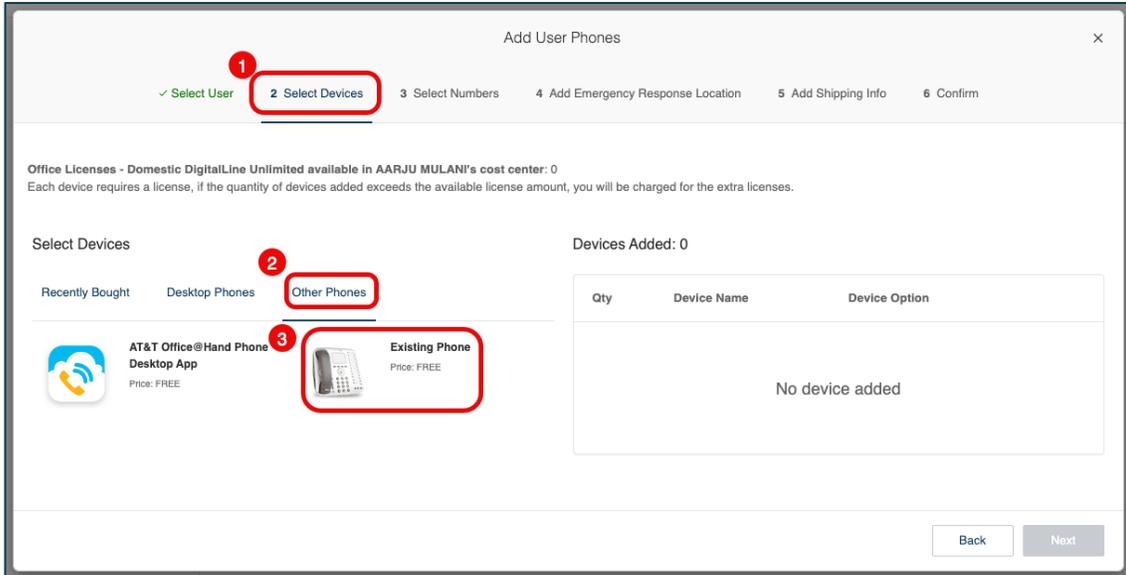
1. [Log-in to AT&T Office@Hand](#) and open **Phone System** → **Phones & Devices** → **User Phones**.

The screenshot displays the AT&T Office@Hand web interface. The top navigation bar includes 'Home', 'Users', 'Phone System', 'Meetings', 'Reports', 'Billing', and 'More'. The 'Phone System' menu item is circled in red with a '1'. On the left sidebar, 'Phones & Devices' is circled in red with a '2', and its sub-item 'User Phones' is circled in red with a '3'. The main content area shows the 'User Phones' configuration page with a search bar and a '+ Add Device' button. Below is a table of existing user phones:

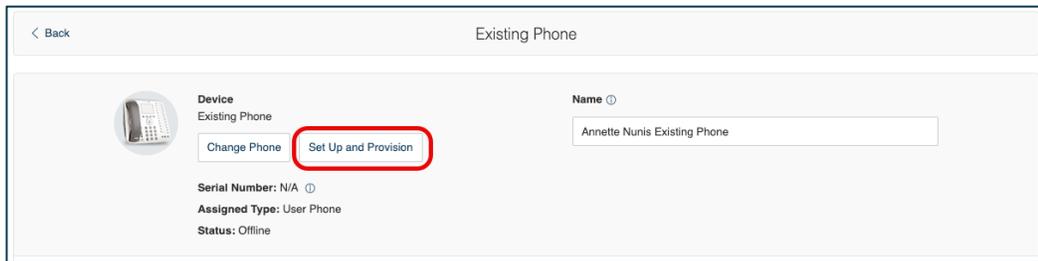
Status	Device	Site	Assigned	Phone
✖	Annette Nunis Existing Phone	Office@Han...	Annette Nunis	(205) 4
✖	Annette Nunis2 Existing Phone	Office@Han...	Annette Nunis2	(205) 4
✖	AT&T Office@Hand for Desktop	Company	George R	(650) 5
✖	AT&T Office@Hand for Desktop	Company	George R	(214) 3
✖	AT&T Office@Hand for Desktop	Company	S Sivaprasad	(214) 8

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

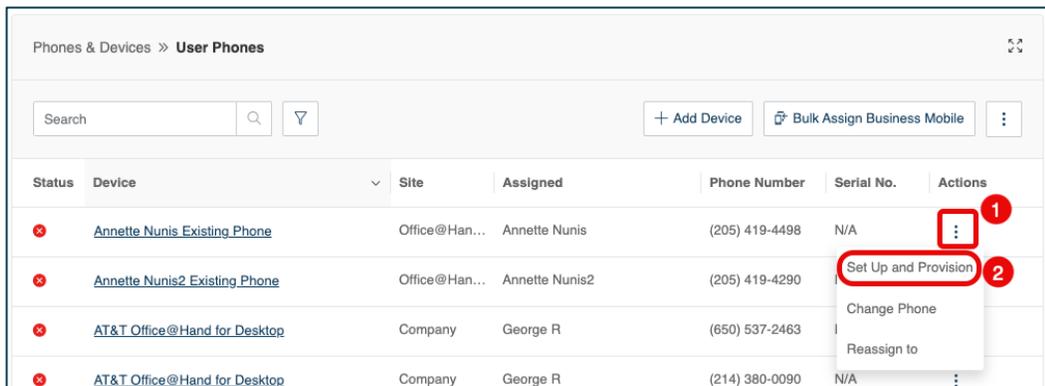
- Set the requested fields as needed in the new window. When selecting a device, go to the tab **Other Phones** and select **Existing Phone**.



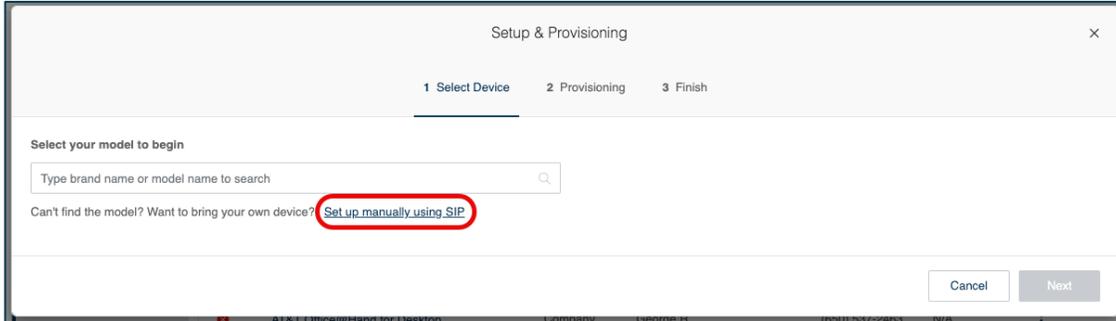
- After you have completed the process of adding a new user phone, setup and provision your device by either:
 - Clicking on the device and clicking **Set Up and Provision** on the next page.



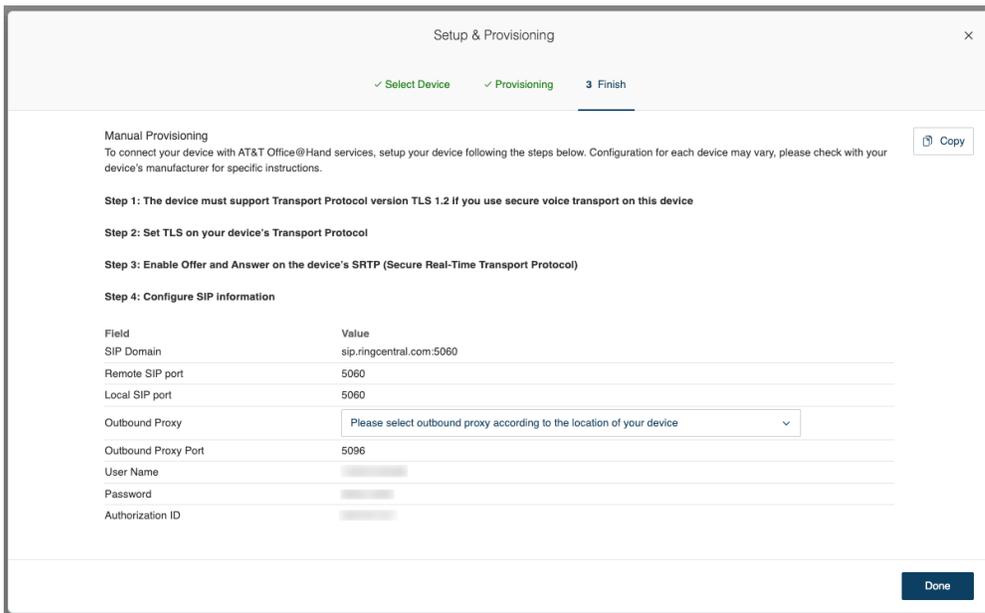
- Clicking on the kebob icon on the right side of the device's row and selecting **Set Up and Provision**.



- In the Setup & Provisioning window, click **Set up manually using SIP**



You will now see your SIP details.



- 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:

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SIP Domain (Proxy Server)	SIP Domain
Page Extension	User Name
Authentication ID	Authorization ID
Authentication Password	Password

8. 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 to TLS . Enabling
Outbound Proxy	Retrieve the Outbound Proxy from AT&T Office@Hand.
SDP SRTP Offer	Click the dropdown and set to Standard .
SDP SRTP Offer Crypto Suite	Click the dropdown and set to All Suites .

Advanced SIP Settings

General

SIP Transportation TLS

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.

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Device Status

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