

# RingCentral Provisioning Guide for Algo SIP Endpoints

Need Help?

(604) 454-3792 or <a href="mailto:support@algosolutions.com">support@algosolutions.com</a>



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# Introduction

Algo SIP Endpoints may be provisioned in different ways with RingCentral. Each method provides advantages and disadvantages, and the optimal one will ultimately depend on the application and which Algo IP Endpoint is getting provisioned. This guide provides details regarding each method, when to use them, as well as configuration steps.



# **Paging Device**

Paging devices can be provisioned to the system without a phone number or internal extension. Once the profile is set up, it must to be added to a "Paging Only Group". This is a collection of paging devices and/or desk phones that can receive a paging call. To page, dial \*84. When prompted, enter the group number followed by #.

#### Recommend use:

• One-way paging using Algo IP speakers or paging adapters (single or multi-site)

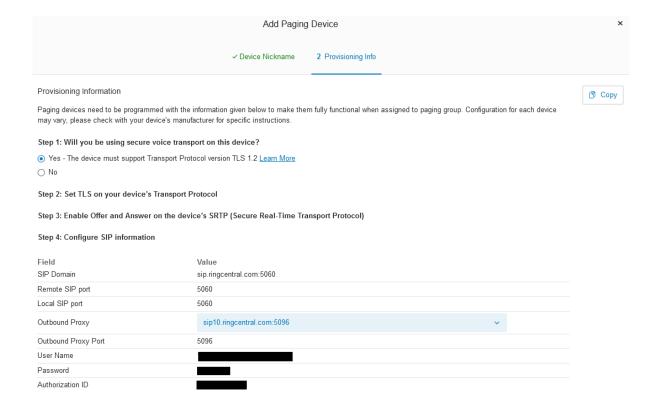
#### Don't use for:

- Two-way communication using Algo IP speakers or intercoms
- Originating calls
- Receiving regular telephone calls
- DTMF zoning (multicast or analog zone controller)
- Door control (via DTMF) with intercoms
- Loud ringing / night ringer



## Configuration

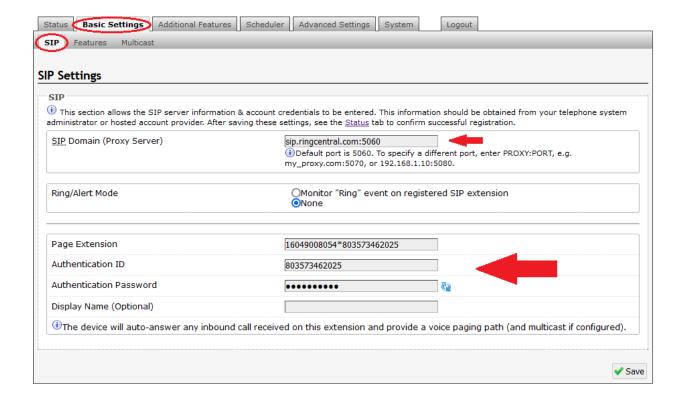
<u>Step 1</u> - In the RingCentral web admin portal, go to "Phone System" -> "Phone & Devices" -> "Paging Devices". Click on "+ Add Device", enter a Device Nickname and click "Next". The SIP credentials will be displayed (see below).





<u>Step 2</u> - In the Algo Endpoint web interface, go to Basic Settings -> SIP tab. Copy & paste the credentials following the instructions below:

- RingCentral "SIP Domain" and "Local SIP Port" = Algo SIP Domain (Proxy Server) field
- RingCentral "User Name" = Algo Extension field
- RingCentral "Authorization ID" = Algo Authentication ID field
- RingCentral "Password" = Algo Authentication Password field

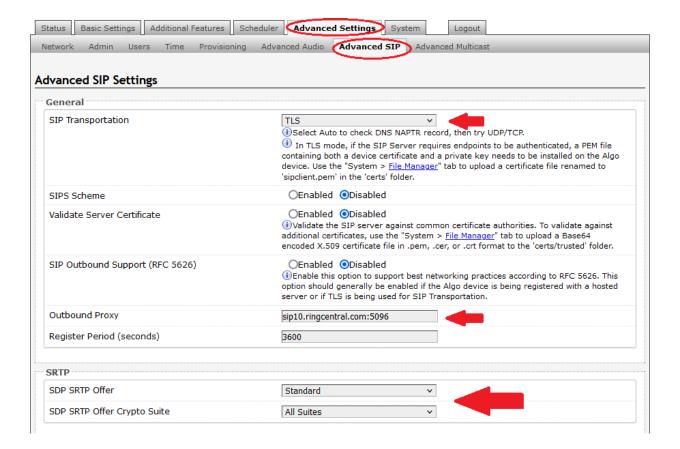




<u>Step 3</u> - RingCentral "Outbound Proxy" and "Outbound Proxy Port" must be entered into the Outbound Proxy field (Advanced Settings -> Advanced SIP). Also set the SIP Transportation to "TLS"

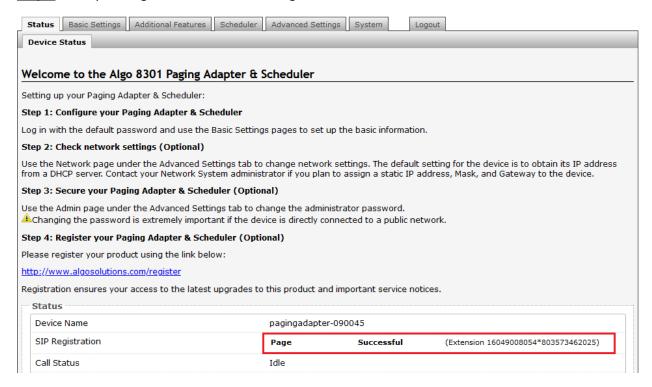
In Advanced Settings -> Advanced SIP tab, set the following parameters:

- SIP Transportation = TLS
- Outbound Proxy = RingCentral "Outbound Proxy" and "Outbound Proxy Port" as provided by RingCentral and separated by colon (see below).
- SDP SRTP Offer = Standard
- SDP SRTP Offer Crypto Suite = All Suites

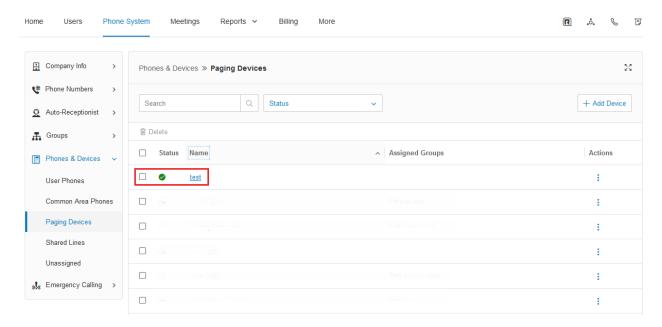




**Step 4** - Verify the registration status in the Algo web interface.



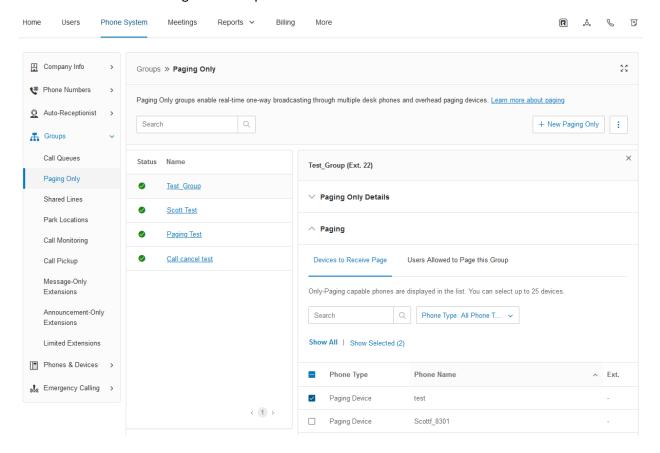
#### **Step 5** - Check registration status in the RingCentral web admin portal.





<u>Step 6</u> - Once the Paging Device has been created and registered, the next step is to add it to an existing Paging Group or create a new one. Go to "Phone System" -> "Groups" -> "Paging Only". Create a new Paging Only Group or add the recently created Paging Device to an existing one.

<u>Step 7</u> - Expand "Paging" and assign one or more devices to the Group. Also configure the permissions under "Users Allowed to Page this Group".



Step 8 - To page dial \*84. When prompted, enter the page group number followed by #.



## **Limited Extension**

RingCentral limited extension is an extension offered with a limited feature set compared to a full extension. This type of extension provides capabilities not offered by the Paging Device profile, thus making it ideal for certain applications.

#### Recommend use:

- Two-way communication using Algo IP speakers or paging adapters
- Intercoms of speakers originating calls
- Capable of receiving regular telephone calls
- DTMF zoning (multicast or analog zone controller)
- Door control (via DTMF) with intercoms

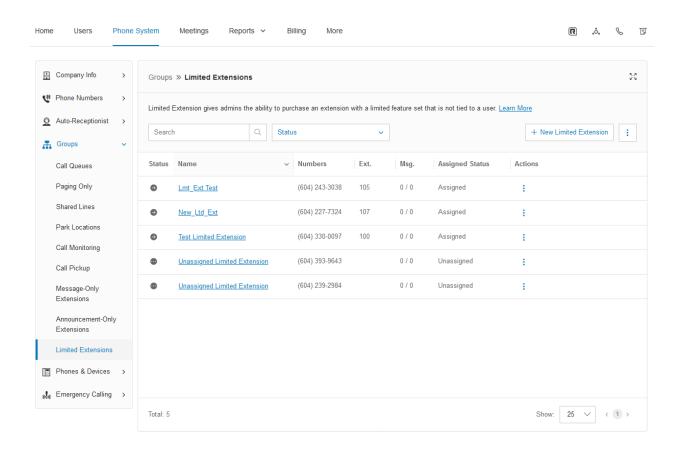
#### Don't use for:

- Loud ringing / night ringer
- One-way paging using Algo IP speakers or paging adapters (single or multi-site)



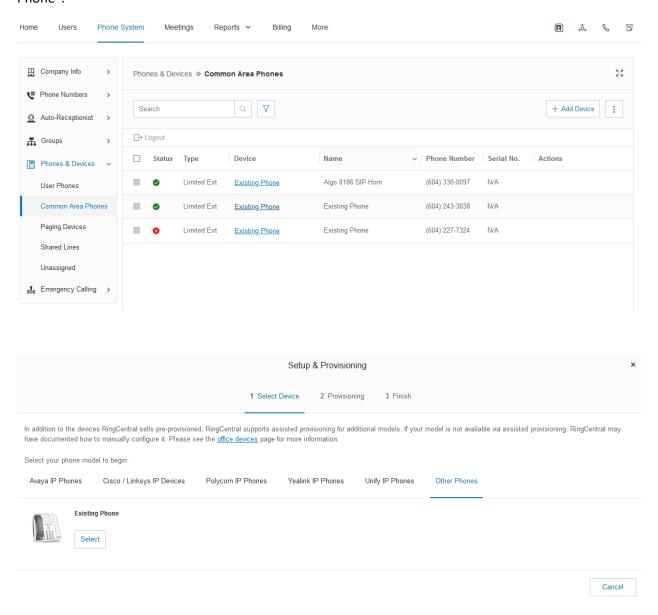
# Configuration

**Step 1** - In the RingCentral web admin portal, go to "Phone System" -> "Groups" -> "Limited Extensions". Add a new Limited Extension or enable an existing one.



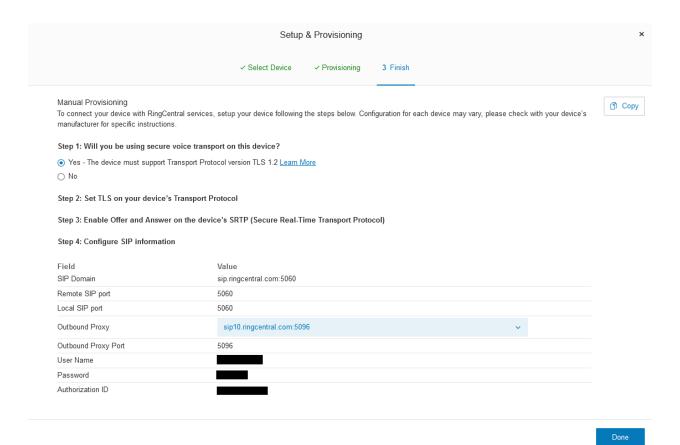


<u>Step 2</u> - Go to "Phones & Devices" -> "Common Area Phones". For the recently created Limited Extension, click on "Existing phone" -> "Setup & Provision" -> "Other Phones" tab -> select "Existing Phone".





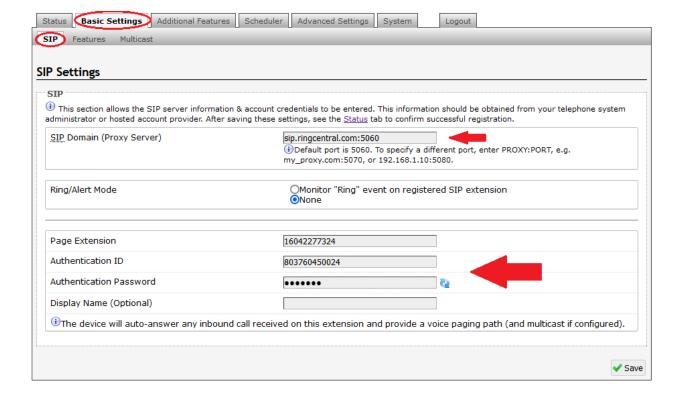
<u>Step 3</u> - At this point, the SIP credentials are displayed. Copy and paste as per instructions provided on the next step.





<u>Step 4</u> - In the Algo Endpoint web interface, go to Basic Settings -> SIP tab. Copy & paste the credentials following the instructions below:

- RingCentral "SIP Domain" and "Local SIP Port" = Algo SIP Domain (Proxy Server) field
- RingCentral "User Name" = Algo Extension field
- RingCentral "Authorization ID" = Algo Authentication ID field
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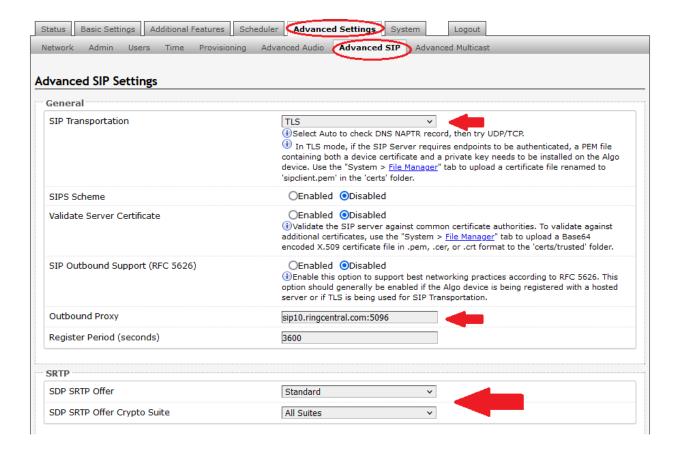




<u>Step 5</u> - RingCentral "Outbound Proxy" and "Outbound Proxy Port" must be entered into the Outbound Proxy field (Advanced Settings -> Advanced SIP). Also set the SIP Transportation to "TLS".

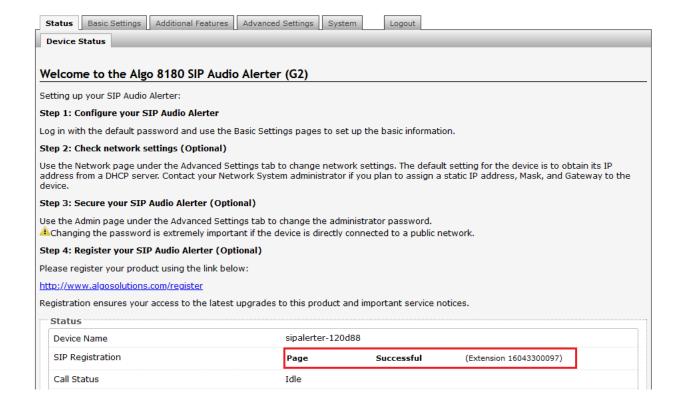
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- SDP SRTP Offer = Standard
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#### **Step 6** - Verify the registration status in the Algo web interface.





# **Digital Line**

A RingCentral digital line can originate or receive regular telephone calls. It's a full extension, thus proving most flexibility for different applications.

#### Recommend use:

- Loud ringing / night ringer
- Two-way communication using Algo IP speakers or paging adapters
- Intercoms of speakers originating calls
- Capable of receiving regular telephone calls
- DTMF zoning (multicast or analog zone controller)
- Door control (via DTMF) with intercoms

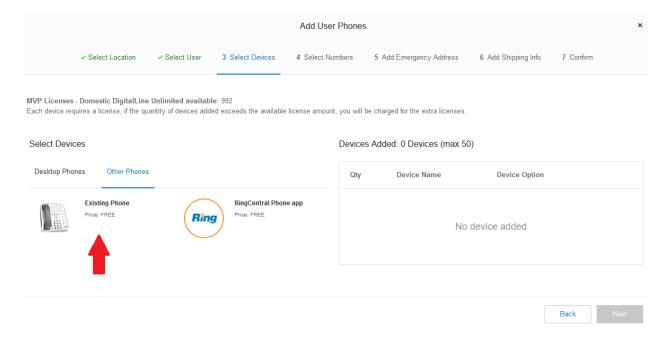
#### Don't use for:

• One-way paging using Algo IP speakers or paging adapters (single or multi-site)

## Configuration

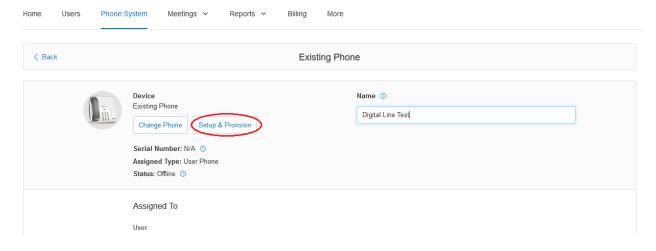
**Step 1** - In the RingCentral web admin portal, go to "Phone System" -> "Phone & Devices" -> "User Phones". Add a new account using the "+ Add Device" button.

<u>Step 2</u> - On the third step, select "Other Phones" and "Existing phone". Continue to finish creating the user account.

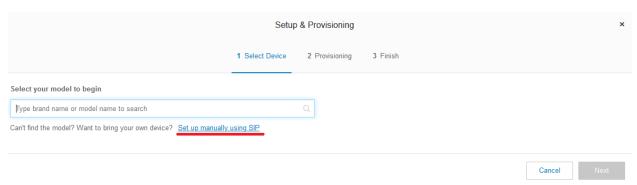




**Step 3** - After creating the user account, click on "Setup & Provision".

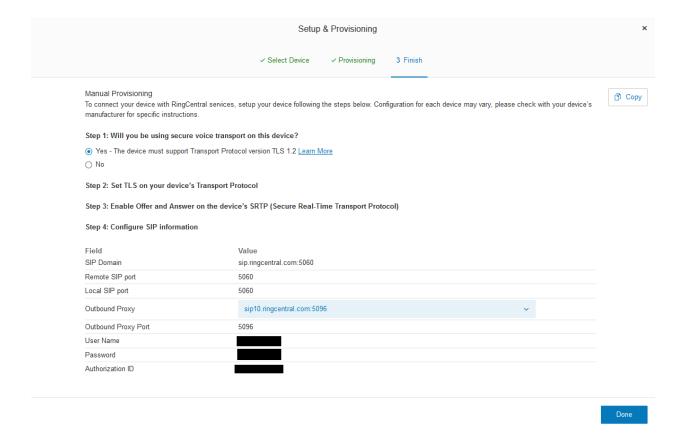


# Step 4 - If prompted to select a model (see screenshot below), click on "Set up Manually Using SIP".





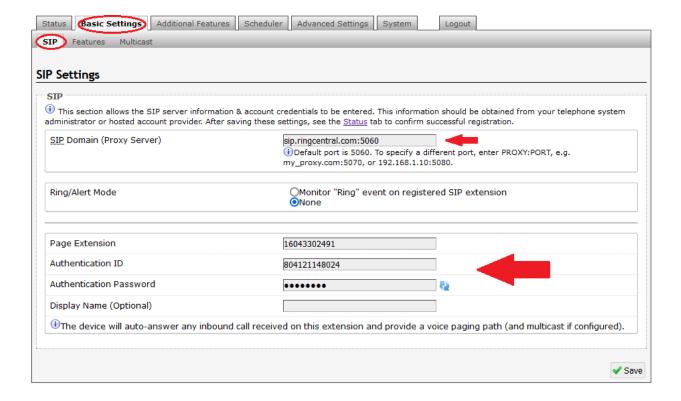
<u>Step 5</u> - At this point, the SIP credentials are displayed. Copy and paste as per instructions provided on the next step.





<u>Step 6</u> - In the Algo Endpoint web interface, go to Basic Settings -> SIP tab. Copy & paste the credentials following the instructions below:

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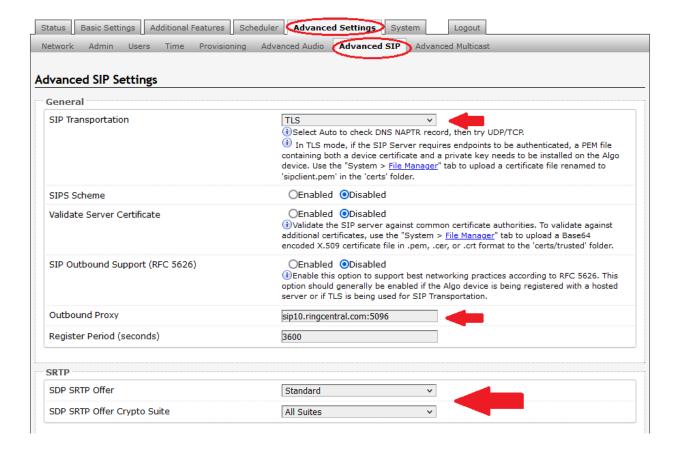




<u>Step 7</u> - RingCentral "Outbound Proxy" and "Outbound Proxy Port" must be entered into the Outbound Proxy field (Advanced Settings -> Advanced SIP). Also set the SIP Transportation to "TLS".

In Advanced Settings -> Advanced SIP tab, set the following parameters:

- SIP Transportation = TLS
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- SDP SRTP Offer = Standard
- SDP SRTP Offer Crypto Suite = All Suites





#### Step 8 - Verify the registration status in the Algo web interface.

