



## *RING CENTRAL CONFIGURATION GUIDE: SIP-ENABLED AMPLIFIERS*

Document Part #931041D

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## **RingCentral Configuration Guide: SIP-Enabled Amplifiers**

### **Document #931041D**

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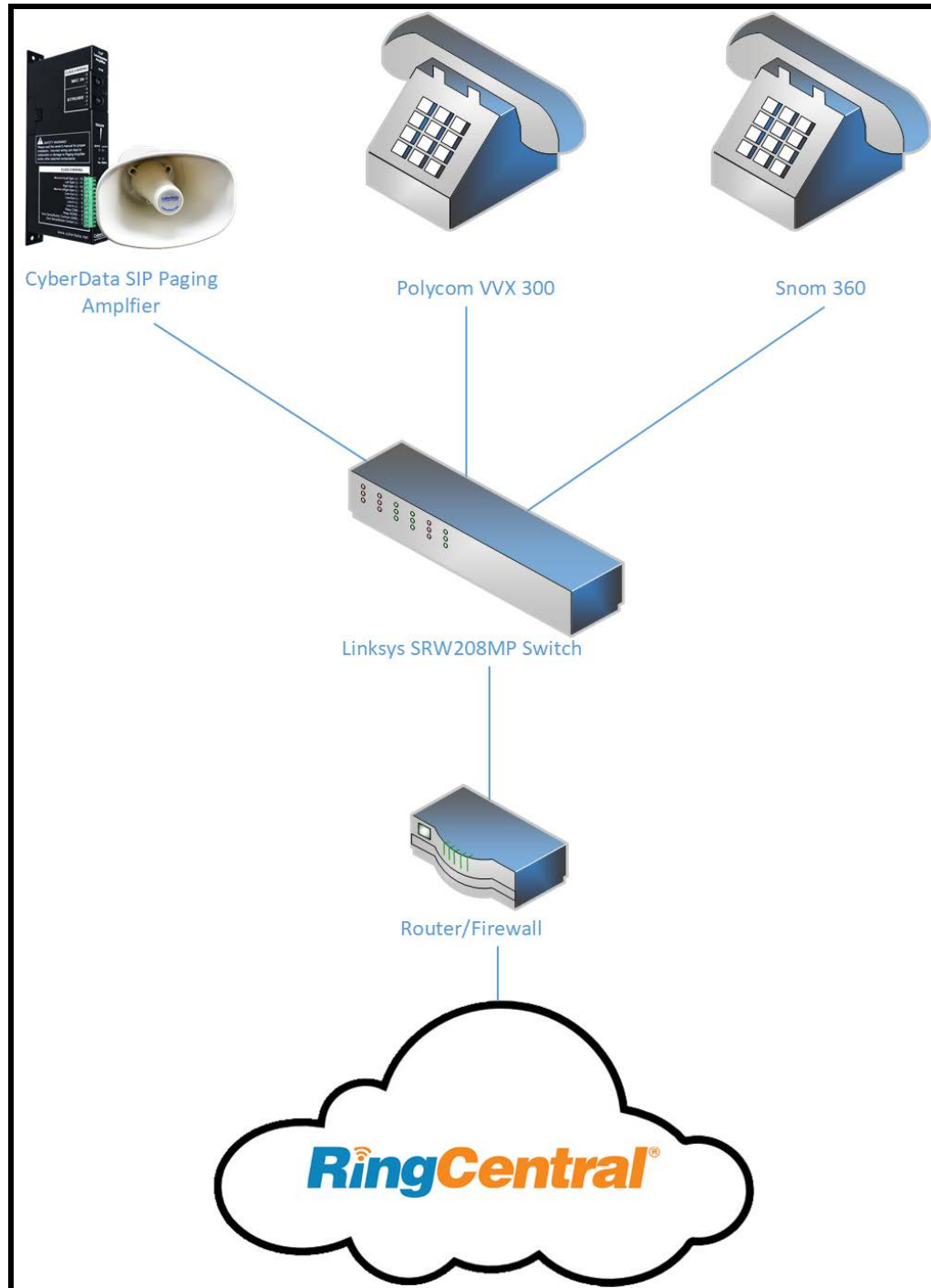
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## 1.0 Setup Diagram

**Figure 1-1. Interoperability Test Infrastructure**



## 2.0 Test Setup Equipment

This section describes the products used for interoperability testing with RingCentral.

**Table 2-1. Setup Equipment**

| EQUIPMENT                                    | MODEL or PART NUMBER       | FIRMWARE VERSION   |
|----------------------------------------------|----------------------------|--------------------|
| CYBERDATA<br>PAGING/LOUDSPEAKER<br>AMPLIFIER | 011324<br>011404<br>011405 | v12.1.0            |
| POLYCOM                                      | VVX 300                    | 5.2.0.8330         |
| SNOM                                         | 360                        | snom360-SIP 8.4.31 |
| LINKSYS                                      | SRW208MP                   | 1.0.4              |

## 3.0 Before You Start

This configuration guide documents the integration process of a CyberData SIP-enabled Paging Amplifier or SIP-enabled Loudspeaker Amplifier.

### Network Advisories

RingCentral uses a Fully Qualified Domain Name (FQDN) for the SIP server and Outbound Proxy addresses. The CyberData amplifier needs to perform a DNS A query to resolve the IP address of RingCentral's Outbound Proxy FQDN. It is necessary to ensure the configured DNS server(s) have an A record for the Outbound Proxy address.

In addition, be sure to verify the following ports are available for the amplifier to use:

- UDP 5060-5061, 5090 (SIP)
- UDP 10500 (RTP)

The amplifier will need to traverse the public internet in order to operate with RingCentral in the cloud.

The amplifier's primary extension uses SIP port 5060 to receive SIP messages. The Nightringer extension uses SIP port 5061 to receive SIP messages. Both extensions will send SIP messages to port 5090, the port used by RingCentral's Outbound Proxy.

SIP ports 5060-5061 and RTP port 10500 are the default values on all noted firmware levels.

Alternatively, SIP ports for the primary and Nightringer extension are configurable on the **SIP** page of the web interface.

The RTP port setting on the **SIP** page is used for both extensions.

### Product Documentation and Utilities

Before starting, download the Operation and Quick Start guides from the amplifier's product webpage:

<https://www.cyberdata.net/products/011324>

The CyberData Discovery Utility can be used to locate CyberData devices on the local network. It can be downloaded from the following web address:

<https://www.cyberdata.net/pages/discovery>

***Note:** DHCP addressing mode is enabled on default on all noted firmware levels.*

## 4.0 Configuration Procedure: Auto-Answer Paging

RingCentral Office Editions now provide free native support for CyberData SIP-enabled paging endpoints to enhance your organization's overhead paging solution!

The RingCentral Paging feature delivers real-time broadcasts to desk phones and/or paging devices. CyberData amplifiers can be added to *Paging Only* groups supporting a combination of CyberData paging endpoints and RingCentral Polycom and Cisco desk phones.

CyberData Paging and Loudspeaker Amplifiers are ideal for one-way, auto-answer paging in indoor environments and offer external or digital volume control.

### Add a Free Paging Device

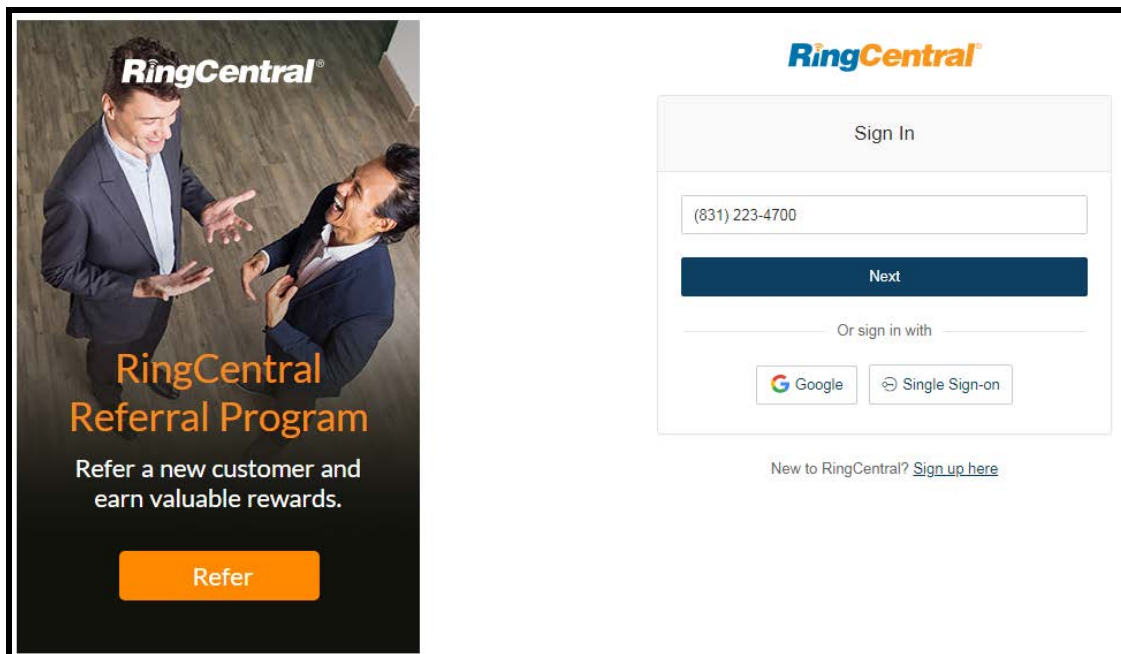
To provision the amplifier's primary extension, add a RingCentral Paging Device to a *Paging Only* group through the RingCentral Admin Portal.

**Note:** RingCentral Paging Devices cannot originate calls, receive DTMF tones, or send audio back to the caller when used in *Paging Only* groups.

Use the following steps to add a free Paging Device through the RingCentral Admin Portal.

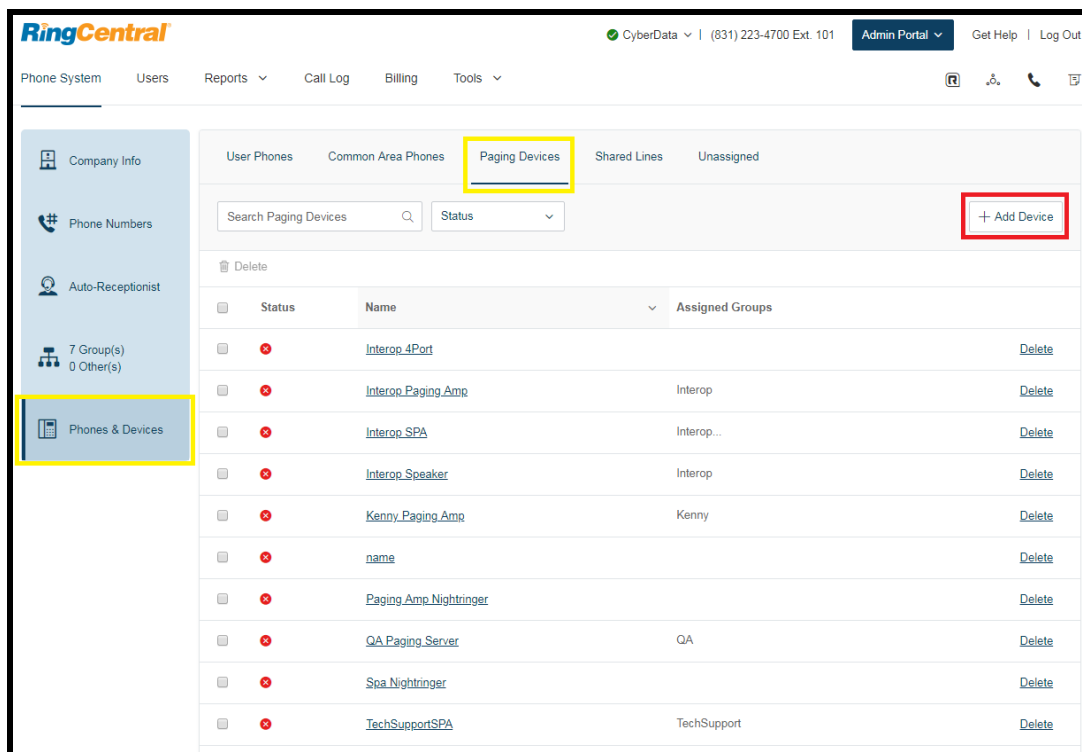
Login to the RingCentral Admin Portal at <https://service.ringcentral.com>.

**Figure 4-1.** RingCentral Admin Portal Login



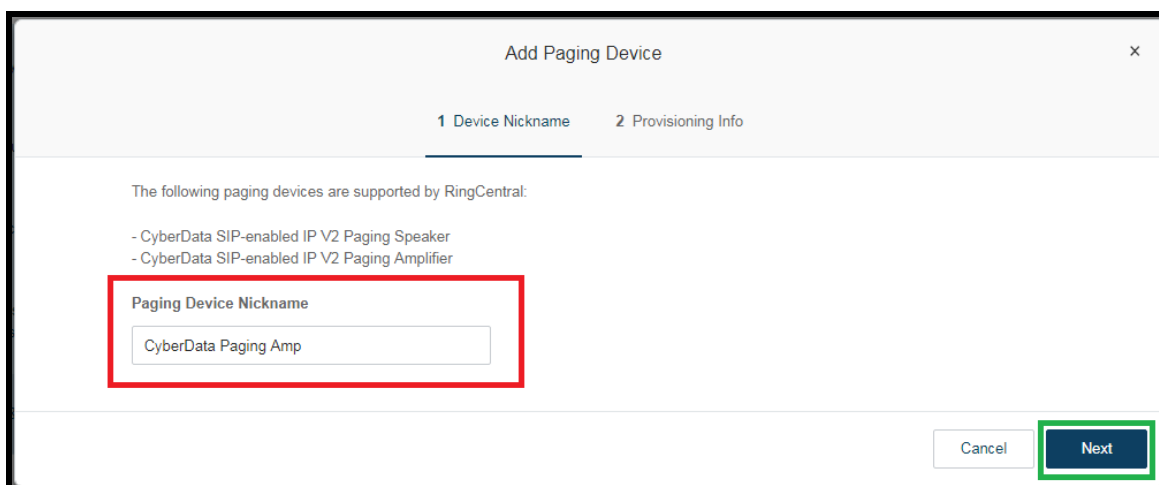
1. From the **Phones & Devices** menu, select **Paging Devices**, and then click **Add Device**.

**Figure 4-2. Add Device**



2. A popup window labeled **Add Paging Device** will appear. Set the **Paging Device Nickname**, and then click **Next**.

**Figure 4-3. Select Device Type**



3. A popup window labeled **Generic Paging Device Provisioning** will appear. Use the provisioning information to register the amplifier's primary extension with RingCentral.

**Figure 4-4. Paging Device Provisioning Information**

Add Paging Device ×

✓ Device Nickname
2 Provisioning Info

Provisioning information for CyberData paging devices

CyberData paging devices need to be programmed with the information given below to make them fully functional when assigned to paging group.

**Step 1**  
Open a web browser session to the CyberData device. Please consult the vendor documentation for details on how to determine the IP address of your device and how to enter the relevant login credentials.

**Step 2**  
Navigate to the Networking page and confirm that the device is configured for DHCP operation.

**Step 3**  
Navigate to the SIP Configuration page and enter the following settings in the appropriate fields and Click "Save". The device may reboot.

|                     |                          |
|---------------------|--------------------------|
| SIP Domain          | sip.ringcentral.com      |
| Remote SIP port     | 5060                     |
| Local SIP port      | 5060                     |
| Outbound Proxy      | sip10.ringcentral.com    |
| Outbound Proxy Port | 5090                     |
| User Name           | 18312234700*802872051010 |
| Authorization ID    | 802872051010             |
| Password            |                          |

Done

**Note:** The values in the left of the table are the name of the CyberData SIP fields as they appear in the amplifier's web interface. The Authenticate Password has been obscured. These values are published only for reference.

- Next, add the new Paging Device to a *Paging Only* group. From the [n] **Groups** menu, select **Paging Only**, then click **New Paging Group**.

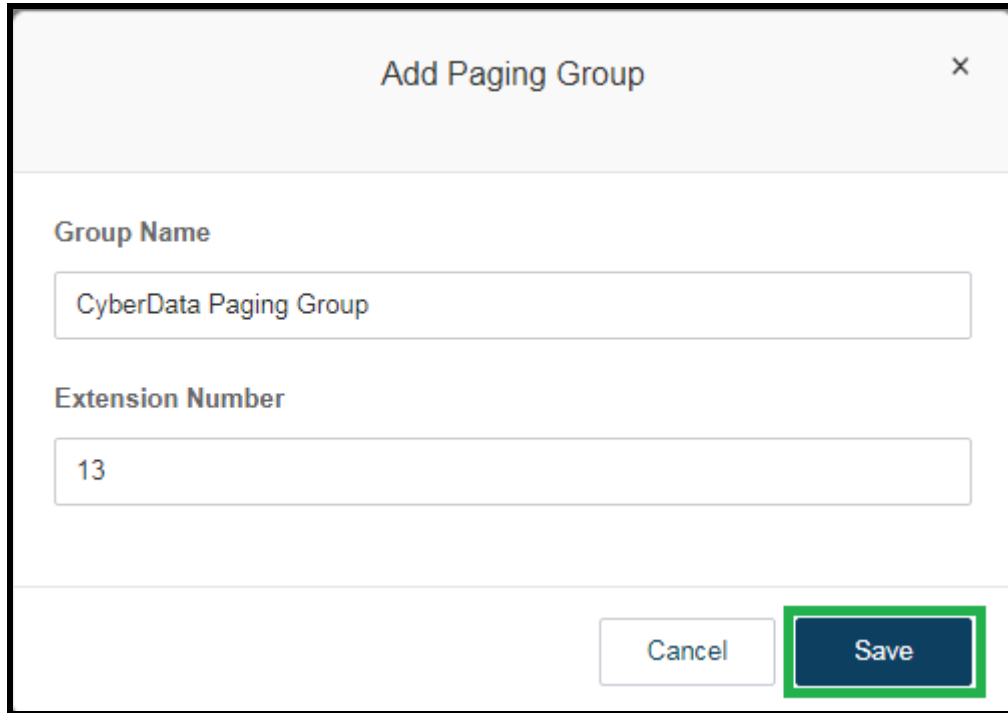
**Figure 4-5. Add Group**

The screenshot shows the RingCentral Admin Portal interface. The top navigation bar includes 'Phone System', 'Users', 'Reports', 'Call Log', 'Billing', and 'Tools'. The 'Paging Only' tab is selected in the top navigation bar. The left sidebar shows '7 Group(s)' and '0 Other(s)' under the 'Groups' icon. The main content area displays a table of existing paging groups with columns for Status, Name, Devices, and Ext. A '+ New Paging Only' button is visible in the top right corner of the main content area.

| Status | Name                        | Devices             | Ext. |
|--------|-----------------------------|---------------------|------|
| ✓      | <a href="#">Interop</a>     | Interop Speaker ... | 11   |
| ✓      | <a href="#">Interop2</a>    | Interop SPA         | 12   |
| ✓      | <a href="#">Kenny</a>       | Kenny Paging Amp    | 3    |
| ✓      | <a href="#">QA</a>          | QA Paging Server    | 8    |
| ✓      | <a href="#">QA Paging</a>   |                     | 10   |
| ✓      | <a href="#">TechSupport</a> | TechSupportSPA      | 7    |

5. A popup window labeled **Add Paging Group** will appear. Enter an available extension number and name for the *Paging Only* group, then click **Save**.

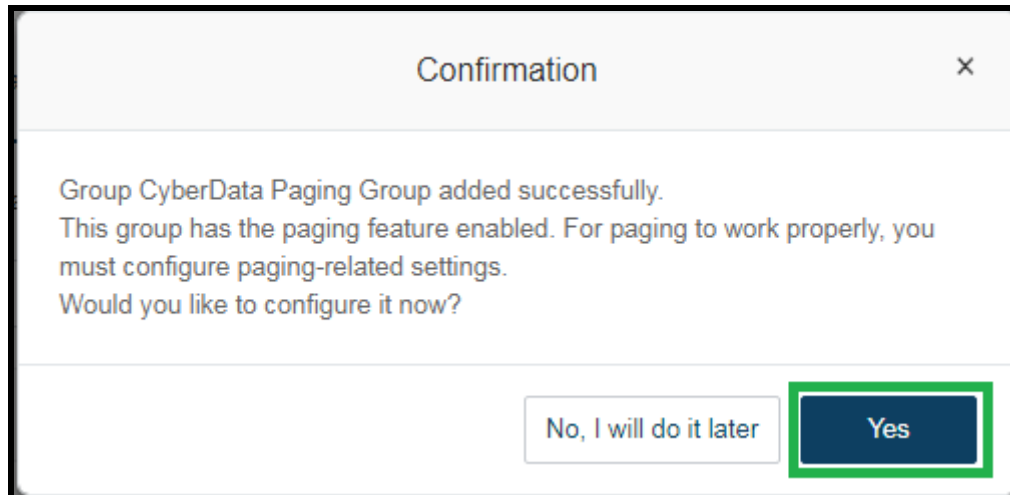
**Figure 4-6.** Add Paging Group



The screenshot shows a modal window titled "Add Paging Group" with a close button (X) in the top right corner. The window contains two text input fields. The first field is labeled "Group Name" and contains the text "CyberData Paging Group". The second field is labeled "Extension Number" and contains the text "13". At the bottom right of the window, there are two buttons: "Cancel" and "Save". The "Save" button is highlighted with a green rectangular border.

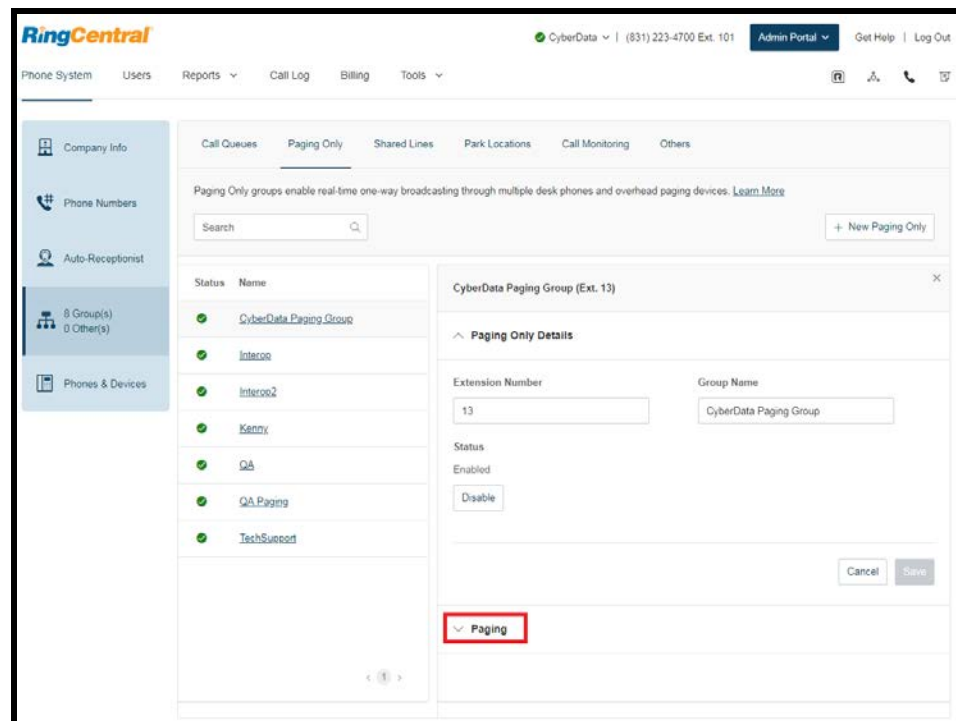
6. A confirmation screen will confirm the paging group has been created. Select **Yes** to configure paging settings.

**Figure 4-7. Confirmation**



7. Verify the new paging group appears in the **Groups** list. Select the paging group and a menu will appear to the far right of the screen. From this menu, select **Paging**.

**Figure 4-8. Group Paging Menu**



8. From the **Paging** menu, select **Devices to receive page**, then check the devices to add to the group and press **Save**.

**Figure 4-9. Devices to Receive Page**

The screenshot displays the 'CyberData Paging Group (Ext. 13)' configuration window. On the left, a sidebar lists various groups, including 'CyberData Paging Group', 'Interop', 'Interop2', 'Kenny', 'QA', 'QA Paging', and 'TechSupport'. The main area is titled 'CyberData Paging Group (Ext. 13)' and contains a 'Paging Only Details' section. Under the 'Paging' tab, there is a 'Devices to Receive Page' section, which is highlighted with a red box. Below this, a note states: 'Only-Paging capable phones are displayed in the list. You can select up to 25 devices.' A search bar and a dropdown for 'All Phone Types' are present. A table lists the available devices, with the 'CyberData Paging Amp' device selected, indicated by a green box. The table has columns for 'Phone Type', 'Phone Name', and 'Ext.'. At the bottom, there is a 'Total: 13' indicator, a 'Show: 10' dropdown, and a pagination control showing '1' of 2 pages. The 'Save' button is highlighted with a green box.

| Phone Type                          | Phone Name    | Ext.                   |
|-------------------------------------|---------------|------------------------|
| <input type="checkbox"/>            | User Phone    | Christina PolycomVX300 |
| <input checked="" type="checkbox"/> | Paging Device | CyberData Paging Amp   |
| <input type="checkbox"/>            | Paging Device | Interop 4Port          |
| <input type="checkbox"/>            | Paging Device | Interop Paging Amp     |
| <input type="checkbox"/>            | Paging Device | Interop SPA            |
| <input type="checkbox"/>            | Paging Device | Interop Speaker        |
| <input type="checkbox"/>            | Paging Device | Kenny Paging Amp       |
| <input type="checkbox"/>            | Paging Device | name                   |
| <input type="checkbox"/>            | Paging Device | Paging Amp Nightringer |
| <input type="checkbox"/>            | Paging Device | QA Paging Server       |

9. Next, select **Users allowed to page this group** to designate users with paging privileges. Check the box next to the users desired then press **Save**.

**Figure 4-10.** Users Allowed to Page This Group

^ **Paging**

Devices to Receive Page    **Users Allowed to Page this Group**

Search  All Departments

Show All | [Show Selected \(3\)](#)

| <input type="checkbox"/>            | Name                  | Ext. | Department |
|-------------------------------------|-----------------------|------|------------|
| <input type="checkbox"/>            | Available User2       | 945  |            |
| <input type="checkbox"/>            | Cameron Device        | 934  |            |
| <input type="checkbox"/>            | Cameron Nightringer   | 935  |            |
| <input type="checkbox"/>            | Cameron Snom          | 932  |            |
| <input checked="" type="checkbox"/> | CyberData Corporation | 101  |            |
| <input type="checkbox"/>            | Group User            | 943  |            |
| <input checked="" type="checkbox"/> | Interop PolycomVWX300 | 104  |            |
| <input checked="" type="checkbox"/> | Interop Snom360       | 103  |            |
| <input type="checkbox"/>            | Interop Strobe        | 942  |            |
| <input type="checkbox"/>            | Kenny phone 2         | 938  |            |

Total: 23    Show:  < 1 2 3 >

10. The page redirects back to the group's paging menu after clicking **Save**. Proceed to **Configure SIP Parameters**.

## Configure SIP Parameters

One may feel more comfortable with web-based configuration or provisioning using templates. Both methods are documented in this configuration guide. Be sure to review the amplifier's operation guide for complete information on configuration through the web interface and CyberData's "autoprovisioning" method using templates via HTTP and TFTP protocols.

**Table 4-1 CyberData Configuration Settings**

|                                                    |                                                                                     |
|----------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Primary SIP Server</b> field                    | From the Paging Device Provisioning Information popup: <b>SIP Server</b>            |
| <b>Primary SIP User ID</b> field                   | From the Paging Device Provisioning Information popup: <b>SIP User ID</b>           |
| <b>Primary SIP Auth ID</b> field                   | From the Paging Device Provisioning Information popup: <b>Authenticate ID</b>       |
| <b>Primary SIP Auth Password</b> field             | From the Paging Device Provisioning Information popup: <b>Authenticate Password</b> |
| <b>Outbound Proxy</b> field                        | From the Paging Device Provisioning Information popup: <b>Outbound Proxy</b>        |
| <b>Outbound Proxy Port</b> field                   | From the Paging Device Provisioning Information popup: <b>Outbound Proxy Port</b>   |
| <b>Re-registration Interval (in seconds)</b> field | <b>30</b>                                                                           |
| <b>Keep Alive Period</b> field                     | <b>0</b>                                                                            |
| <b>Force Selected Codec</b> checkbox               | <b>Yes</b>                                                                          |
| <b>Codec</b> dropdown                              | <b>PCMU (G.711, u-law)</b>                                                          |

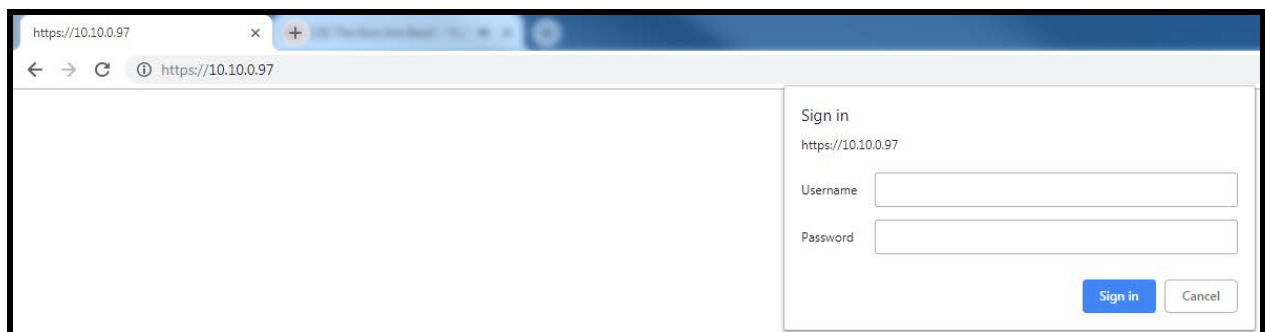
If configuring through the web interface, use the following steps to login to the web interface of the CyberData device.

1. Click **Launch Browser** from the CyberData Discovery Utility or point a browser to the CyberData device's IP address to access the Home Page of the web interface.
2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

**Figure 4-11.** Web Interface Login



**Figure 4-12.** Home Page of Amplifier Web Interface

Home Device Network SIP Multicast Sensor Audiofiles Events Autoprov Firmware

## CyberData Paging Amplifier

### Current Status

Serial Number: 405000417  
Mac Address: 00:20:f7:03:a3:2f  
Firmware Version: v11.8.0

IP Addressing: DHCP  
IP Address: 10.10.0.97  
Subnet Mask: 255.0.0.0  
Default Gateway: 10.0.0.1  
DNS Server 1: 10.0.1.56  
DNS Server 2:

SIP Mode: Enabled  
Multicast Mode: Disabled  
Event Reporting: Disabled  
Nightringer: Disabled

Primary SIP Server: Registered  
Backup Server 1: Not registered  
Backup Server 2: Not registered  
Nightringer Server: Not registered

### Admin Settings

Username: admin  
Password:  
Confirm Password:

Save Reboot Toggle Help

### Import Settings

Choose File No file chosen

Import Config

### Export Settings

Export Config

3. On the Home Page, click **SIP** on the top toolbar of the screen to access the SIP Configuration page.

**Note:** The firmware version and registration status for the primary extension and Nightringer extensions appear here.

4. Enter the provisioning information from the [Generic Paging Device Provisioning](#) popup window.

**Note:** The Local SIP Port is set to 5060 on default and is used by the amplifier as its source port for the auto-answer primary extension configured on this page.

5. Set the *Re-registration Interval (in seconds)* to **30 seconds**.
6. Set the *Keep Alive Period* to **0**.
7. Enable *Force Codec Selection* and use **PCMU**.

8. Click **Save** and **Reboot** to store changes.

**Figure 4-13. SIP Configuration**

## CyberData Paging Amplifier

### SIP Settings

Enable SIP operation: ☒

SIP Transport Protocol:

Register with a SIP Server: ☒

Use Cisco SRST: ☐

Primary SIP Server:

Primary SIP User ID:

Primary SIP Auth ID:

Primary SIP Auth Password:

Backup SIP Server 1:

Backup SIP User ID 1:

Backup SIP Auth ID 1:

Backup SIP Auth Password 1:

Backup SIP Server 2:

Backup SIP User ID 2:

Backup SIP Auth ID 2:

Backup SIP Auth Password 2:

Remote SIP Port:

Local SIP Port:

Outbound Proxy:

Outbound Proxy Port:

Disable rport Discovery: ☐

Buffer SIP Calls: ☐

Re-registration Interval (in seconds):

Unregister on Boot: ☐

Keep Alive Period:

### Nightringer Settings

Enable Nightringer: ☐

SIP Server:

Remote SIP Port:

Local SIP Port:

Outbound Proxy:

Outbound Proxy Port:

User ID:

Authenticate ID:

Authenticate Password:

Re-registration Interval (in seconds):

### RTP Settings

RTP Port (even):

Jitter Buffer:

### Call Disconnection

Terminate Call after delay:

### Codec Selection

Force Selected Codec: ☒

Codec:

## Autoprovisioning

If autoprovisioning the amplifier, use the SIP Settings in the autoprovisioning template to register the amplifier with RingCentral.

An autoprovisioning template is provided in the respective firmware folder available on the **Downloads** tab of the product webpage here:

<https://www.cyberdata.net/products/011324>

Be sure to use the autoprovisioning template for the firmware version running on the amplifier. The firmware version can be verified on the [Home page of the web interface](#).

Refer to the Operations Guide for instructions on autoprovisioning configuration.

**Figure 4-14.** Autoprovisioning Template Example – SIP Settings

```
<SIPSettings>
  <EnableSIPOperation>Yes</EnableSIPOperation>
  <SIPServer>sip.ringcentral.com</SIPServer>
  <BackupSIPServer1></BackupSIPServer1>
  <BackupSIPServer2></BackupSIPServer2>
  <UseCiscoSRST>No</UseCiscoSRST>
  <RemoteSIPPort>5060</RemoteSIPPort>
  <LocalSIPPort>5060</LocalSIPPort>
  <OutboundProxy>sip20.ringcentral.com</OutboundProxy>
  <OutboundProxyPort>5090</OutboundProxyPort>
  <SIPUserID>18312234700*132261969011</SIPUserID>
  <SIPAuthID>132261969011</SIPAuthID>
  <SIPAuthPassword>*****</SIPAuthPassword>
  <SIPRegistrationTimeout>30</SIPRegistrationTimeout>
  <SIPUnregisterOnBoot>No</SIPUnregisterOnBoot>
  <DisableRportDiscovery>No</DisableRportDiscovery>
  <CallTimeout>0</CallTimeout>
  <RTPPort>10500</RTPPort>
</SIPSettings>
```

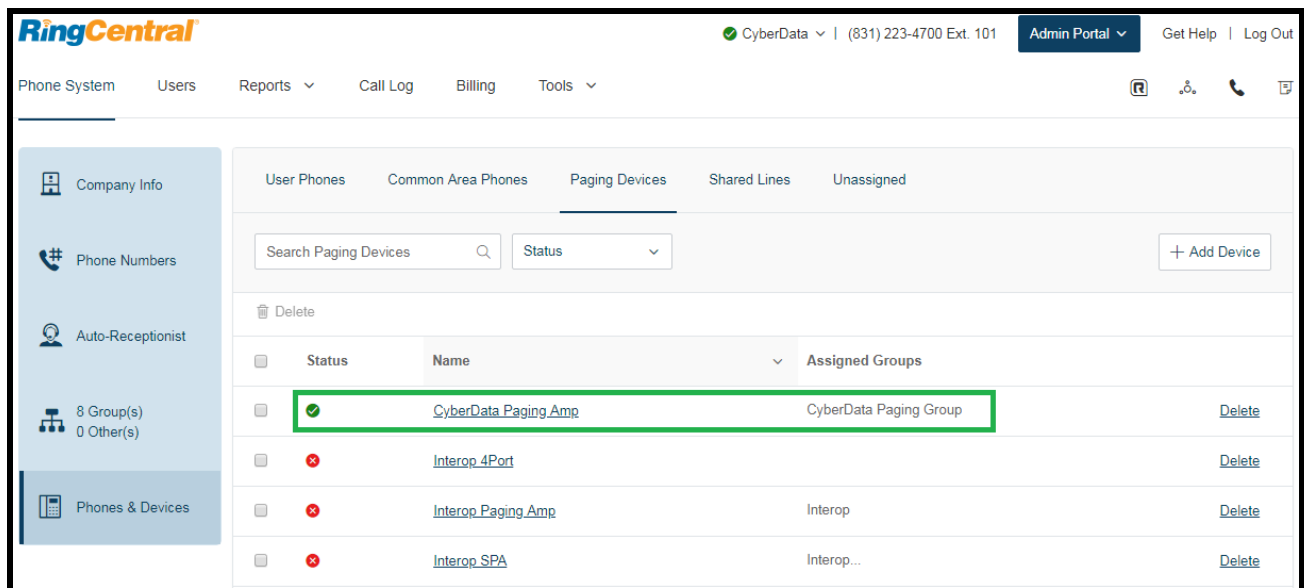
**Note:** These example values are published only for reference. The SIPAuthPassword value should be the actual value from the [Generic Paging Device Provisioning](#) popup window.

## Verify the Amplifier is Registered

After the device has rebooted and initialized, refresh the [Home page of the web interface](#). The device should show as **[Registered with SIP Server]** in green text on the bottom of the Home Page of the web interface.

Additionally, the registration status may be verified with RingCentral through the admin portal. From the **Phones & Devices** menu, select the Paging Device tab then find the device just created for the amplifier. The status should show as a green checkmark in the **Status** column.

**Figure 4-15. Device Details – Status**



## Make a Test Call

Once the device has registered with RingCentral, use any phone associated with an [Allowed User](#) to dial the extension of the paging group.

Refer to this [RingCentral Knowledge article 5925](#) for instructions on paging a group from an IP phone.

## 5.0 Configuration Procedure: Voice-Prompted Paging

When an installation requires more flexibility than auto-answer live paging, the amplifier's primary extension can be provisioned as an IP phone associated with a user extension. Provisioning as a Paging Device does not allow the caller to receive audio from the amplifier to hear voice prompts from the amplifier's paging menu or enter DTMF digits for stored message selections.

Provision the amplifier's extension as an IP phone to enable the following features:

- Playing up to 9 configurable stored messages
- Security code

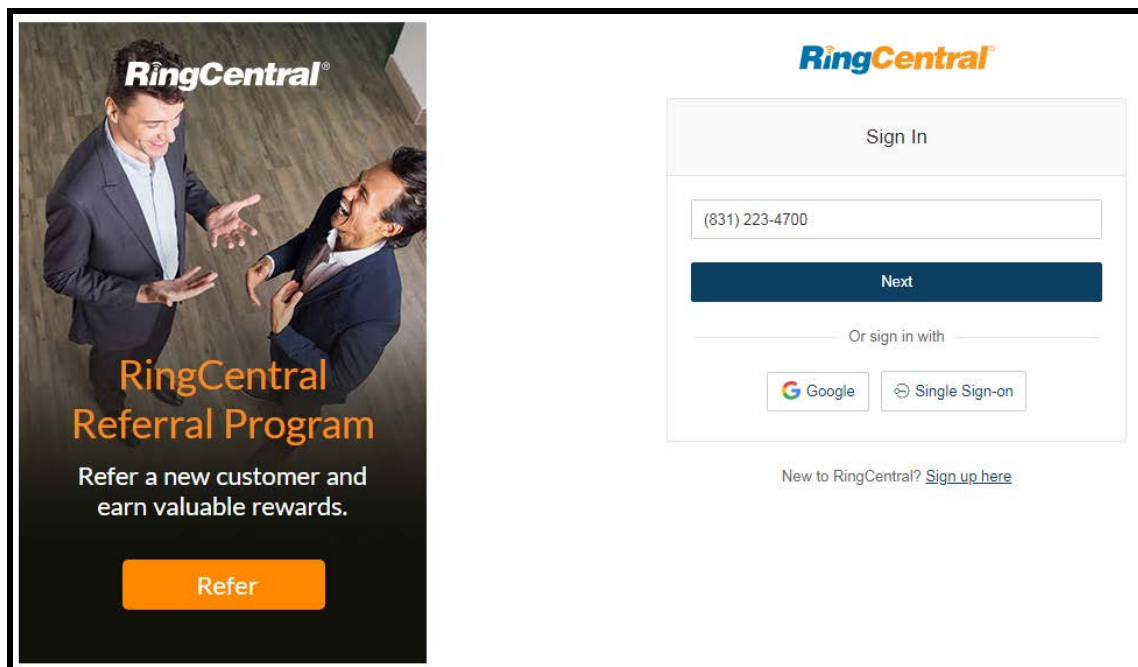
### Add an IP Phone

This section describes the process of creating a user, provisioning an IP phone, and registering the primary extension that will be used for paging with RingCentral. First, a RingCentral user must be created for the paging amplifier.

Use the following steps to create a user and provision an IP phone for the primary extension through the RingCentral Admin Portal.

1. Login to the RingCentral Admin Portal at <https://service.ringcentral.com>.

**Figure 5-1. RingCentral Admin Portal Login**



2. Select **Users**, and then press the **Add User** button.

**Figure 5-2. Add User Button**

The screenshot shows the RingCentral Admin Portal interface. The top navigation bar includes 'Phone System', 'Users' (highlighted), 'Reports', 'Call Log', 'Billing', and 'Tools'. The left sidebar contains 'User list', 'Roles', 'User groups', and 'Templates'. The main content area is titled 'Users With Extensions' and 'Unassigned Extensions'. It features a search bar, filters for 'Status' and 'Roles', and a '+ Add User' button (highlighted with a green box). Below the filters is a table of users with columns: Status, Name, Number, Ext., Roles, Department, and Msg. The table lists several users, including 'Available User2', 'Cameron Device', 'Cameron Nightr...', 'Cameron Snom', 'CyberData Cor...', 'Group User', 'Interop Polyc...', 'Interop Snom360', 'Interop Strobe', 'Kenny\_phone\_2', and 'Kenny\_phone\_3'. Each row has a 'Disable' link in the 'Msg.' column.

| Status            | Name           | Number | Ext.                | Roles               | Department | Msg.                   |
|-------------------|----------------|--------|---------------------|---------------------|------------|------------------------|
| Available User2   |                |        | 945                 | Standard (Intern... |            | 0 / 0                  |
| Cameron Device    | (831) 272-0654 | 934    | Standard (Intern... |                     | 0 / 0      | Resend Invite   Delete |
| Cameron Nightr... | (831) 272-0641 | 935    | Standard (Intern... |                     | 0 / 0      | Resend Invite   Delete |
| Cameron Snom      | (831) 233-3994 | 932    | Super Admin         |                     | 3 / 3      | Disable                |
| CyberData Cor...  | (303) 872-5806 | 101    | Super Admin         |                     | 9 / 9      |                        |
| Group User        |                | 943    | Standard (Intern... |                     | 3 / 3      | Disable                |
| Interop Polyc...  | (831) 975-2610 | 104    | Standard (Intern... |                     | 1 / 1      | Disable                |
| Interop Snom360   | (831) 233-3992 | 103    | Super Admin         |                     | 5 / 5      |                        |
| Interop Strobe    | (669) 900-4551 | 942    | Standard (Intern... |                     | 1 / 1      | Disable                |
| Kenny_phone_2     | (831) 741-4265 | 938    | Standard (Intern... |                     | 2 / 2      | Disable                |
| Kenny_phone_3     | (831) 272-0630 | 939    | Standard (Intern... |                     | 6 / 6      | Disable                |

3. A popup window labeled **Add User** will appear. Select a location then press **Next**.

**Figure 5-3. Add User Popup**

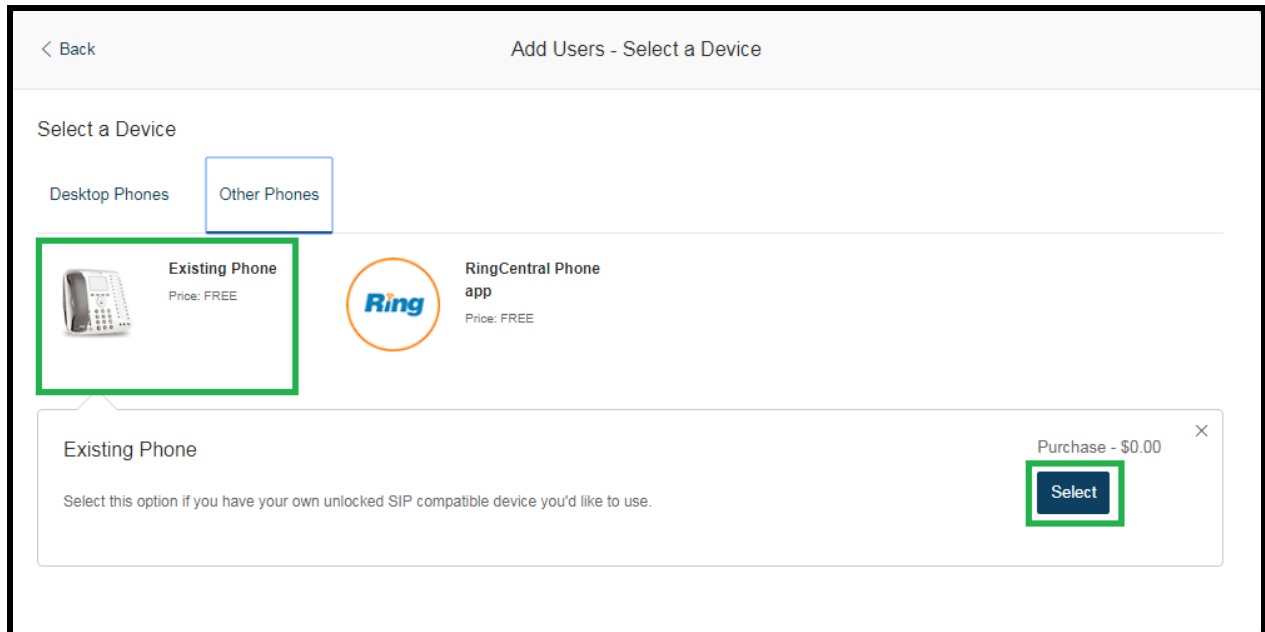
4. In the subsection **Add Users with Phones**, select the number of users, state, area code, and device.

**Figure 5-4. Pick a Phone Number**

Learn More'. At the bottom, there are four input fields: 'Number of Users' (with value '1'), 'State' (dropdown menu with 'Select'), 'Area Code' (dropdown menu with 'Select'), and 'Device' (dropdown menu with 'Select a Device... >'). The 'Number of Users', 'State', and 'Area Code' fields are highlighted with a yellow border, and the 'Device' field is highlighted with a green border. To the right of these fields is an 'Add' button. At the bottom right are 'Back' and 'Next' buttons."/>

5. A prompt will appear to select a phone type. Choose **Other Phones**, and then make sure **Existing Phone** is selected. Press **Select**.

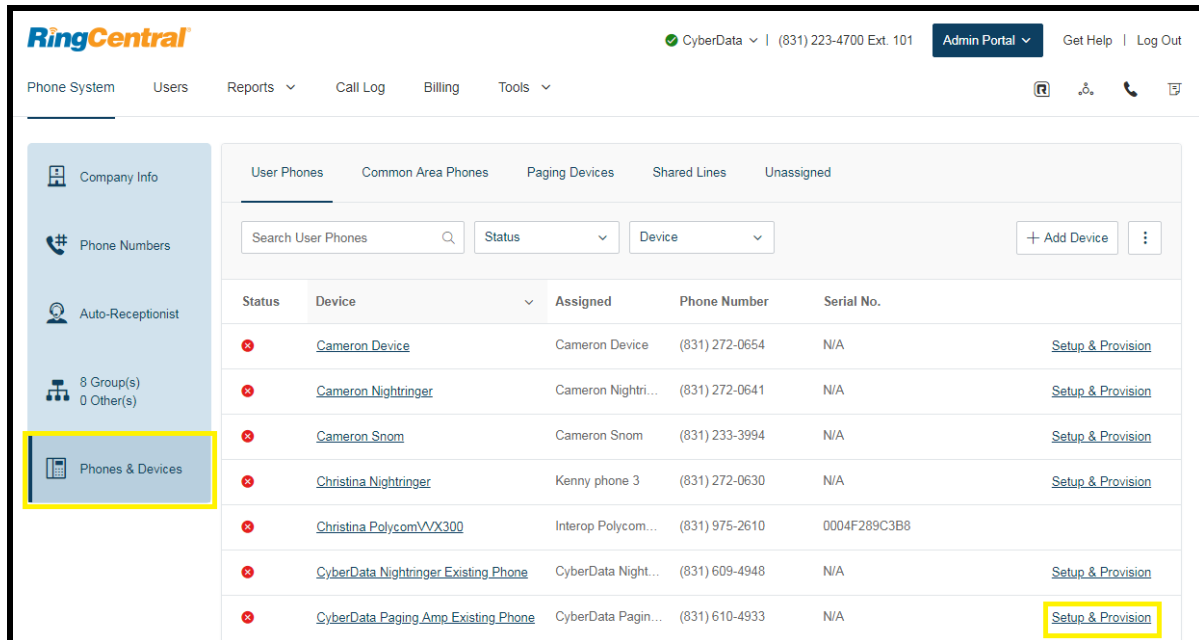
**Figure 5-5. Select Phone Type**



6. The next step leads to a six-step ordering process to set up a RingCentral DigitalLine. Click the **Select** button to choose an **Existing Phone** and follow the steps in the ordering window to complete the process.

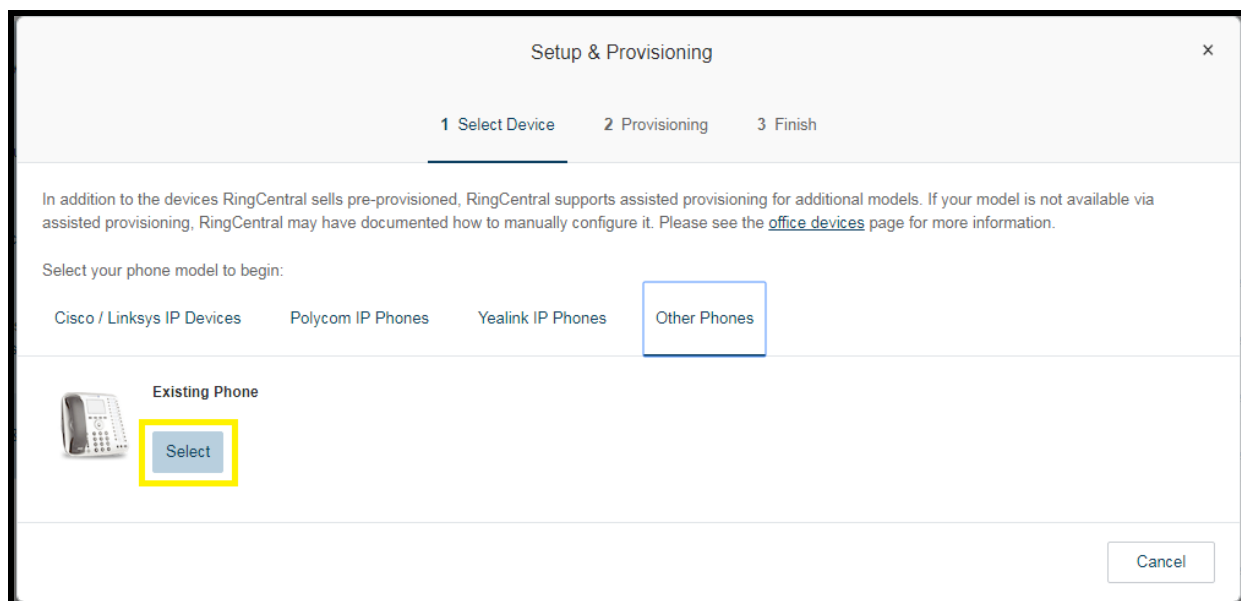
- From the **Phones & Devices** menu, select **User Phones** and select the user phone designated for the paging amplifier. Click **Setup and Provision**.

**Figure 5-6. Setup and Provision**



- A popup window labeled **Setup & Provisioning** will appear. Select **Other Phones** and click **Select**.

**Figure 5-7. Setup & Provisioning - Other Phones**



9. A popup window labeled **Setup & Provisioning** will appear. The information in this popup will be used to register the device with RingCentral.

**Figure 5-8.** IP Phone Provisioning Information

| Field            | Value                      |
|------------------|----------------------------|
| SIP Domain       | sip.ringcentral.com:5060   |
| Outbound Proxy   | SIP10.ringcentral.com:5090 |
| User Name        | 18316104933                |
| Password         | [obscured]                 |
| Authorization ID | 802872093010               |

**Note:** The Password has been obscured. These values are published only for reference.

## SIP Fields Table

Use the following table to determine how the RingCentral SIP field values above correlate to the CyberData SIP field values.

**Table 5-1. CyberData Configuration Settings**

|                                                    |                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Primary SIP Server</b> field                    | From the IP Phone Provisioning Information popup: <b>SIP Server</b>            |
| <b>Primary SIP User ID</b> field                   | From the IP Phone Provisioning Information popup: <b>SIP User ID</b>           |
| <b>Primary SIP Auth ID</b> field                   | From the IP Phone Provisioning Information popup: <b>Authenticate ID</b>       |
| <b>Primary SIP Auth Password</b> field             | From the IP Phone Provisioning Information popup: <b>Authenticate Password</b> |
| <b>Outbound Proxy</b> field                        | From the IP Phone Provisioning Information popup: <b>Outbound Proxy</b>        |
| <b>Outbound Proxy Port</b> field                   | From the IP Phone Provisioning Information popup: <b>Outbound Proxy Port</b>   |
| <b>Re-registration Interval (in seconds)</b> field | <b>30</b>                                                                      |
| <b>Keep Alive Period</b> field                     | <b>0</b>                                                                       |
| <b>Force Selected Codec</b> checkbox               | <b>Yes</b>                                                                     |
| <b>Codec</b> dropdown                              | <b>PCMU (G.711, u-law)</b>                                                     |

## Configure SIP Parameters

If configuring through the web interface, use the following steps to login to the web interface of the paging amplifier and register the primary extension with RingCentral.

1. Click **Launch Browser** from the CyberData Discovery Utility or point a browser to the CyberData device's IP address to access the Home Page of the web interface.
2. Enter the web login credentials when prompted and click the **Log In** button.
3. On the Home Page, click **SIP** on the top toolbar of the screen to access the SIP page.
4. Enter the provisioning information from the [Assisted Generic IP Phone Provisioning](#) popup window. Use [Table 6-1](#) to enter RingCentral SIP values into the proper CyberData SIP fields.

**Note:** The Local SIP Port is set to 5060 on default and is used by the amplifier as its source port for the primary extension configured on this page.

5. Set the *Re-registration Interval (in seconds)* to **30 seconds**.
6. Set the *Keep Alive Period* to **0**.
7. Enable *Force Codec Selection* and use **PCMU**.
8. Click **Save** and **Reboot** to store changes.

**Figure 5-9. SIP Configuration**

# CyberData Paging Amplifier

### SIP Settings

Enable SIP operation: ☒

SIP Transport Protocol:

Register with a SIP Server: ☒

Use Cisco SRST: ☐

Primary SIP Server:

Primary SIP User ID:

Primary SIP Auth ID:

Primary SIP Auth Password:

Backup SIP Server 1:

Backup SIP User ID 1:

Backup SIP Auth ID 1:

Backup SIP Auth Password 1:

Backup SIP Server 2:

Backup SIP User ID 2:

Backup SIP Auth ID 2:

Backup SIP Auth Password 2:

Remote SIP Port:

Local SIP Port:

Outbound Proxy:

Outbound Proxy Port:

Disable rport Discovery: ☐

Buffer SIP Calls: ☐

Re-registration Interval (in seconds):

Unregister on Boot: ☐

Keep Alive Period:

### Nightringer Settings

Enable Nightringer: ☐

SIP Server:

Remote SIP Port:

Local SIP Port:

Outbound Proxy:

Outbound Proxy Port:

User ID:

Authenticate ID:

Authenticate Password:

Re-registration Interval (in seconds):

### RTP Settings

RTP Port (even):

Jitter Buffer:

### Call Disconnection

Terminate Call after delay:

### Codec Selection

Force Selected Codec: ☒

Codec:

Save Reboot Toggle Help

## Autoprovisioning

If autoprovisioning the paging amplifier, use the SIP Settings in the autoprovisioning template to register the primary extension with RingCentral.

**Figure 5-10.** Autoprovisioning Template Example – SIP Settings

```
<SIPSettings>
  <EnableSIPOperation>Yes</EnableSIPOperation>
  <SIPServer>sip.ringcentral.com</SIPServer>
  <RemoteSIPPort>5060</RemoteSIPPort>
  <BackupSIPServer1></BackupSIPServer1>
  <BackupSIPServer2></BackupSIPServer2>
  <LocalSIPPort>5060</LocalSIPPort>
  <OutboundProxy>sip20.ringcentral.com</OutboundProxy>
  <OutboundProxyPort>5090</OutboundProxyPort>
  <SIPUserID>18312333993</SIPUserID>
  <SIPAuthID>17422862010</SIPAuthID>
  <SIPAuthPassword>*****</SIPAuthPassword>
  <SIPRegistrationTimeout>30</SIPRegistrationTimeout>
  <SIPUnregisterOnBoot>No</SIPUnregisterOnBoot>
  <SIPRegisterOnBoot>Yes</SIPRegisterOnBoot>
  <BufferSIPCalls>No</BufferSIPCalls>
  <RTPPort>10500</RTPPort>
  <CallTimeout>0</CallTimeout>
  <UseCiscoSRST>No</UseCiscoSRST>
  <DisableRportDiscovery>No</DisableRportDiscovery>
  <KeepAlive>0</KeepAlive>
</SIPSettings>
```

**Note:** These example values are published only for reference. The `SIPAuthPassword` value should be the actual value from the [Assisted Generic IP Phone Provisioning](#) popup window.

## Verify the Primary Extension Is Registered

After the amplifier has rebooted and initialized to store changes, refresh the Home page of the web interface. The device should show as **[Registered with SIP Server]** in green text on the bottom of the Home Page of the web interface.

Additionally, the registration status can be verified with RingCentral through the Admin Portal. From the **Phones & Devices** menu, select **User Phones** and the IP Phone just created for the amplifier. The status should show as “online” in the **Phone Details**.

**Figure 5-11. Phone Details – Status**

The screenshot shows the RingCentral Admin Portal interface. The left sidebar contains navigation links: Company Info, Phone Numbers, Auto-Receptionist, 8 Group(s) 0 Other(s), and Phones & Devices. The main content area is titled 'User Phones' and includes a search bar, status filter, and device filter. A table lists the registered phones with columns for Status, Device, Assigned, Phone Number, and Serial No. The row for 'CyberData Paging Amp Existing Phone' is highlighted with a yellow box, showing a green status icon and 'N/A' for the serial number.

| Status | Device                               | Assigned            | Phone Number   | Serial No.   |
|--------|--------------------------------------|---------------------|----------------|--------------|
| ✖      | Cameron Device                       | Cameron Device      | (831) 272-0654 | N/A          |
| ✖      | Cameron Nightringer                  | Cameron Nightri...  | (831) 272-0641 | N/A          |
| ✖      | Cameron Snom                         | Cameron Snom        | (831) 233-3994 | N/A          |
| ✖      | Christina Nightringer                | Kenny phone 3       | (831) 272-0630 | N/A          |
| ✖      | Christina PolycomVX300               | Interop Polycom...  | (831) 975-2610 | 0004F289C3B8 |
| ✖      | CyberData Nightringer Existing Phone | CyberData Night...  | (831) 609-4948 | N/A          |
| ✔      | CyberData Paging Amp Existing Phone  | CyberData Pagine... | (831) 610-4933 | N/A          |
| ✖      | Existing Phone                       | Interop Snom360     | (831) 233-3992 | N/A          |

## Verify Stored Message Menu Is Enabled

Before making a test call, be sure to verify the stored message menu is enabled. The setting *Enable Stored Message Playback* is located on the **Device Configuration** page of the web interface. Make sure this setting is checked. On default, *Stored Message Playback* is disabled.

**Figure 5-12. Enabled Paging Menu**

The screenshot displays the 'CyberData Paging Amplifier' web interface. At the top, a navigation bar includes tabs for Home, Device, Network, SIP, Multicast, Sensor, Audiofiles, Events, Autopro, and Firmware. The 'Device' tab is selected. The main content area is titled 'CyberData Paging Amplifier' and contains several configuration sections:

- Volume Settings (0-9):** Includes sliders for SIP Volume, Multicast Volume, Ring Volume, Sensor Volume, and Loopback Volume, all set to 4. A 'Volume Boost' dropdown is set to 'No Volume Boost'.
- Line-in Settings:** Includes a checkbox for 'Enable Line-in to Line-out Loopback'.
- DTMF Settings:** Includes a checkbox for 'Require Security Code' and a text field for 'Security Code'. The 'Enable Stored Message Playback' checkbox is checked and highlighted with a red box.
- Clock Settings:** Includes a checkbox for 'Set Time with NTP server on boot', a text field for 'NTP Server' (north-america.pool.ntp.org), a text field for 'Posix Timezone String (see manual)' (PST8PDT,M3.2.0/2:00:00,M11.1.), a checkbox for 'Periodically sync time with server', a text field for 'Time update period (in hours)' (24), and a text field for 'Current Time' (19:27:43).
- Relay Settings:** Includes a checkbox for 'Activate Relay with DTMF code', text fields for 'Relay Pulse Code' (123), 'Relay Pulse Duration (in seconds)' (2), 'Relay Activation Code' (456), and 'Relay Deactivation Code' (654). It also includes checkboxes for 'Activate Relay During Ring', 'Activate Relay During Night Ring', and 'Activate Relay While Call Active'.
- Power Settings:** Includes a checkbox for '802.3AT Mode' (Detected and enabled), a checkbox for 'Force 802.3AT Mode (NOT recommended)', and a checkbox for 'Auxiliary Power Supply'.
- Misc Settings:** Includes a text field for 'Device Name' (Paging Amplifier), a checkbox for 'Auto-Answer Incoming Calls', checkboxes for 'Beep on Init' and 'Beep on Page', a checkbox for 'Disable HTTPS (NOT recommended)', and a checkbox for 'Two Speakers Connected'.

If autoprovisioning the amplifier, set *Enable Stored Message Playback* to **Yes** under **DeviceSettings** in the autoprovisioning template.

**Figure 5-13.** Autoprovisioning Example – Enabled Paging Menu

```
<DeviceSettings>
  <AdminName>admin</AdminName>
  <AdminPassword>admin</AdminPassword>

  <UseDigitalVolume>No</UseDigitalVolume>
  <SpeakerVolume>4</SpeakerVolume>      <!-- This is the volume for SIP calls -->
  <MulticastVolume>4</MulticastVolume>
  <RingVolume>4</RingVolume>
  <SensorVolume>4</SensorVolume>
  <LoopbackVolume>4</LoopbackVolume>
  <BoostLevel>0</BoostLevel>             <!-- Speaker boost -->
  <MicGain>4</MicGain>
  <MicBoost1>No</MicBoost1>
  <MicBoost2>No</MicBoost2>
  <DualSpeaker>No</DualSpeaker>

  <ActivateRelayWithDTMF>Yes</ActivateRelayWithDTMF>
  <DTMFActivationCode>456</DTMFActivationCode>
  <DTMFDeactivationCode>654</DTMFDeactivationCode>
  <DTMFPulseCode>123</DTMFPulseCode>
  <DTMFPulseDuration>2</DTMFPulseDuration>

  <ActivateRelayDuringRing>No</ActivateRelayDuringRing>
  <ActivateRelayDuringNightRing>No</ActivateRelayDuringNightRing>
  <ActivateRelayDuringCall>No</ActivateRelayDuringCall>

  <ActivateRelayDuringButtonPress>No</ActivateRelayDuringButtonPress>
  <RelayOnButtonPressTimeout>3</RelayOnButtonPressTimeout>

  <BeepOnInitialization>No</BeepOnInitialization>
  <BeepBeforePage>No</BeepBeforePage>

  <UseSecurityCode>No</UseSecurityCode>
  <PageSecurityCode></PageSecurityCode>

  <AutoAnswerIncomingCalls>Yes</AutoAnswerIncomingCalls>
  <ButtonLitWhenIdle>Yes</ButtonLitWhenIdle>
  <EnablePushToTalk>No</EnablePushToTalk>
  <PWMBrightness>255</PWMBrightness>
  <DisableHTTPS>No</DisableHTTPS>
  <HighPowerMode>No</HighPowerMode>
  <AuxPowerMode>No</AuxPowerMode>

  <EnableLineLoopback>No</EnableLineLoopback>
  <EnableStoredMessagePlayback>Yes</EnableStoredMessagePlayback>
</DeviceSettings>
```

## **Make a Test Call**

Once the primary extension has registered with RingCentral and has been configured with the appropriate Device settings for the installation, any RingCentral phone may be used to dial the primary extension.

## 6.0 Configuration Procedure: Nightringer

### What is a Nightringer?

CyberData's SIP-enabled Amplifiers offer a secondary SIP extension called **Nightringer** in addition to the primary extension used for auto-answer paging.

The Nightringer plays a customizable ring tone when an incoming call is detected. The Nightringer extension can be added to ring groups for simultaneous ringing. When added to a ring group, the Nightringer will ring until a ring group member picks up the call. The Nightringer stops ringing when the call is answered by a ring group member or when the caller disconnects before a ring group member picks up the call. The Nightringer extension cannot answer a call.

### Provisioning Nightringer with RingCentral

Provisioning a Nightringer extension with RingCentral differs from provisioning the auto-answer primary extension.

It is important to note the Primary Extension and Nightringer Extension must use separate sets of SIP extension parameters. That is, each must be assigned their own SIP extension. The Nightringer cannot use the same provisioning information already in use by the Primary Extension (and vice versa).

When integrating with RingCentral, the Nightringer extension must be provisioned as an IP phone rather than a Paging Device in order to allow the Nightringer to ring.

If the Nightringer is provisioned and registered as a Paging Device, the Nightringer will only ring for 2 seconds before the call is cancelled by the RingCentral server. Thus, it is necessary to provision the Nightringer as an IP phone for full functionality. Please consult with RingCentral for costs associated with IP phone provisioning on the account.

**Note:** For voice paging, use the provision the primary extension as a Paging Device following the instructions in [Section 4.0 "Configuration Procedure: Auto-answer Paging."](#)

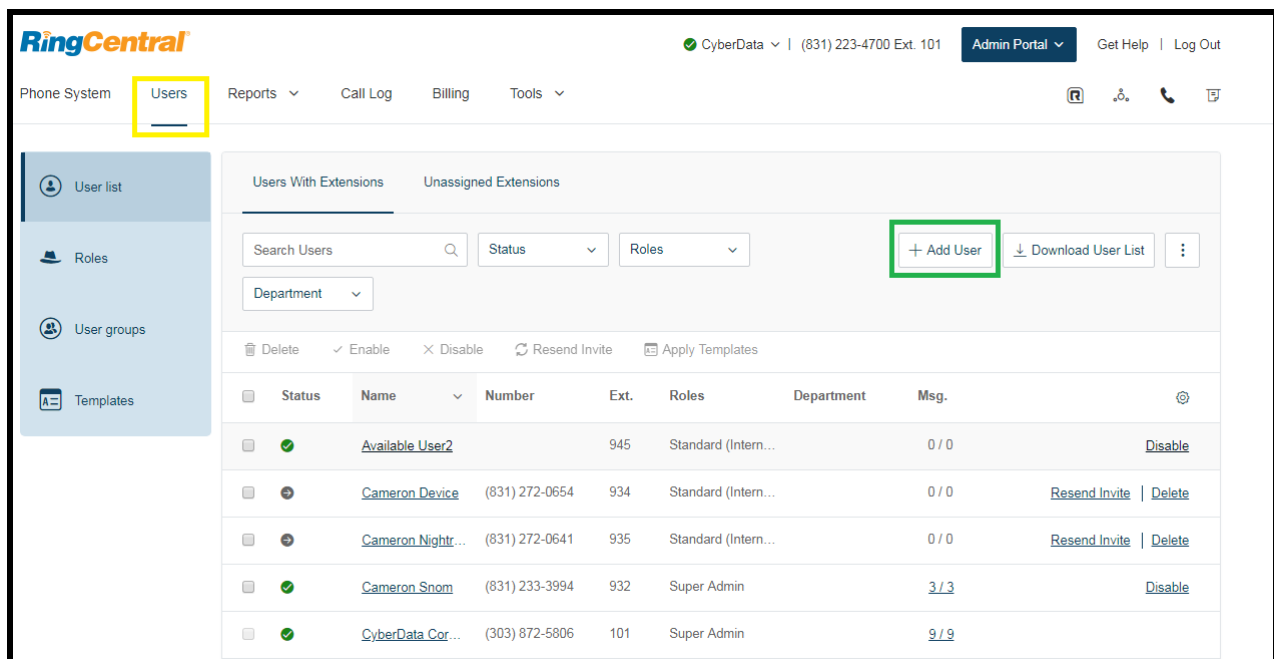
## Add an IP Phone

To provision the amplifier's Nightringer extension, add a RingCentral Existing Phone through the RingCentral Admin Portal.

First, a RingCentral User must be created for the Nightringer.

1. From the **[n] Users** menu, click the **Add** button.

**Figure 6-1. Add User Button**



2. A popup window labeled **Add User** will appear. Choose the user location then press **next**.

**Figure 6-2. Add User Location**

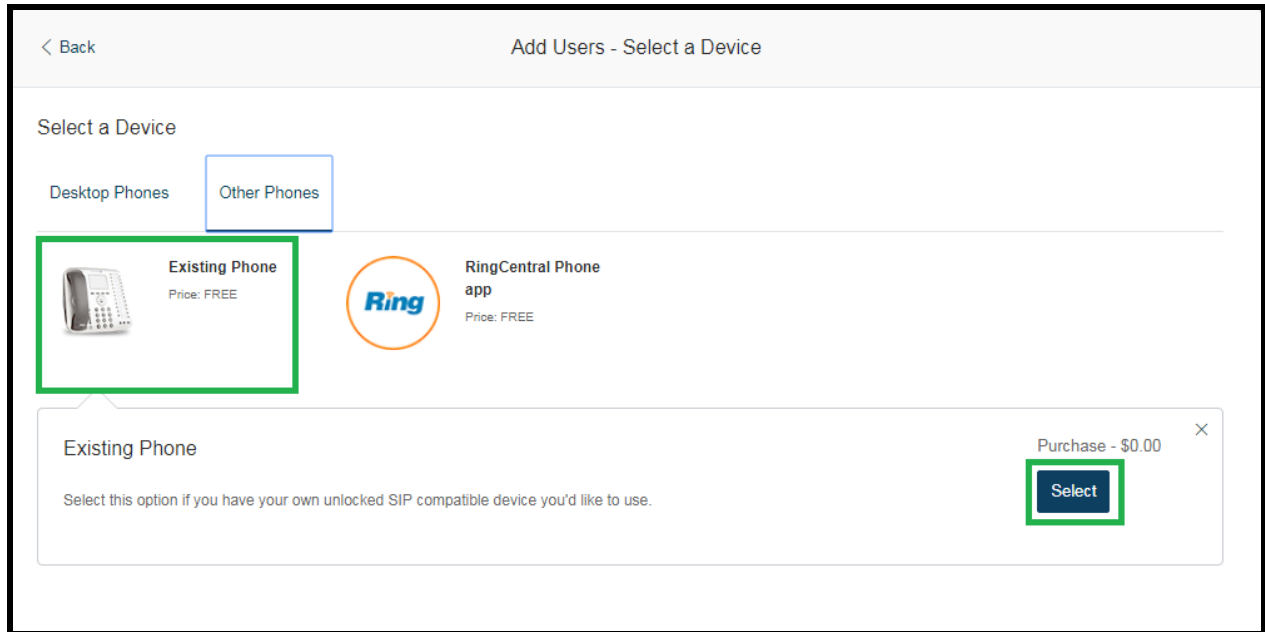
3. In the subsection **Add Users with Phones**, select the number of users, state, area code, and device.

**Figure 6-3. Add User Phone Number**

Learn More'. At the bottom, there are four input fields: 'Number of Users' (value: 1), 'State' (dropdown: Select), 'Area Code' (dropdown: Select), and 'Device' (dropdown: Select a Device... >). The 'Number of Users', 'State', and 'Area Code' fields are highlighted with a yellow box, and the 'Device' field is highlighted with a green box. At the bottom right, there are 'Back' and 'Next' buttons."/>

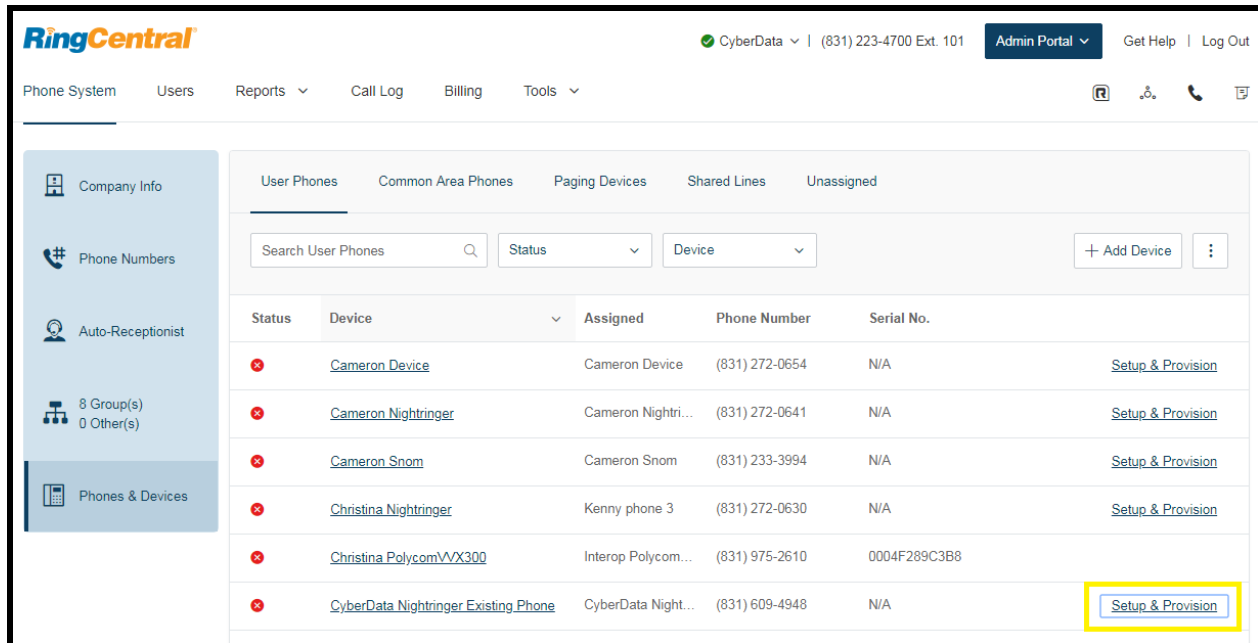
4. A prompt will appear to select a phone type. Click the **Select** button to choose an **Existing Phone**. Select **Existing Phone**.

**Figure 6-4. Select Phone Type**



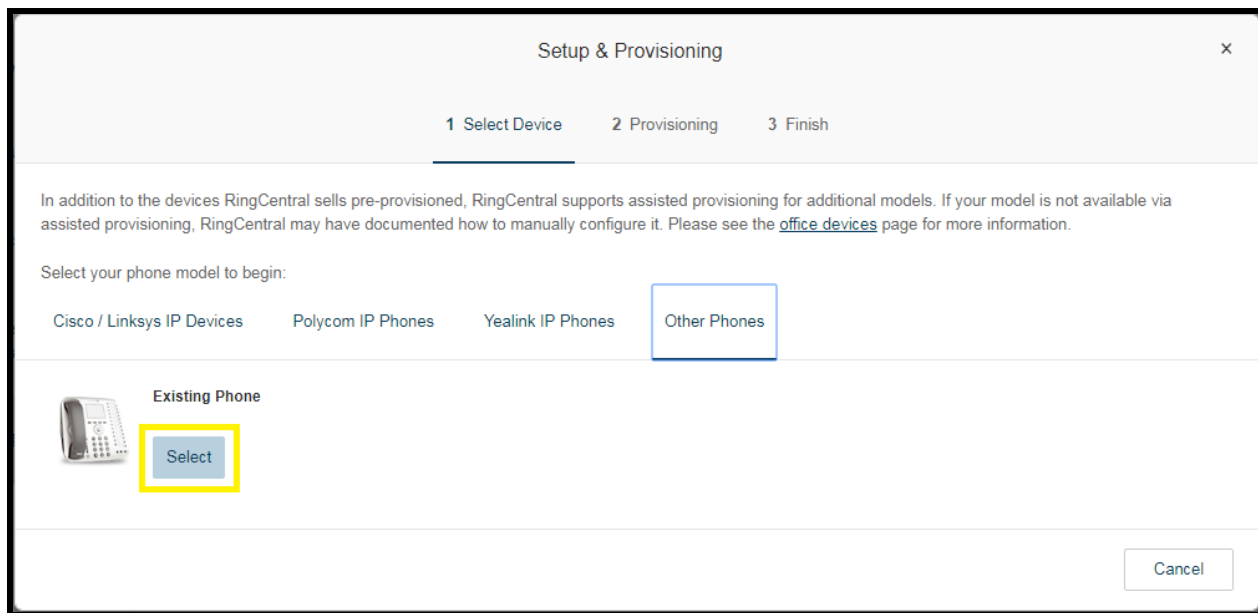
- From the **Phones & Devices** menu, select **User Phones** and the select the user phone designated for the Nightringer. Click **Setup and Provision**.

**Figure 6-5. Setup and Provision**



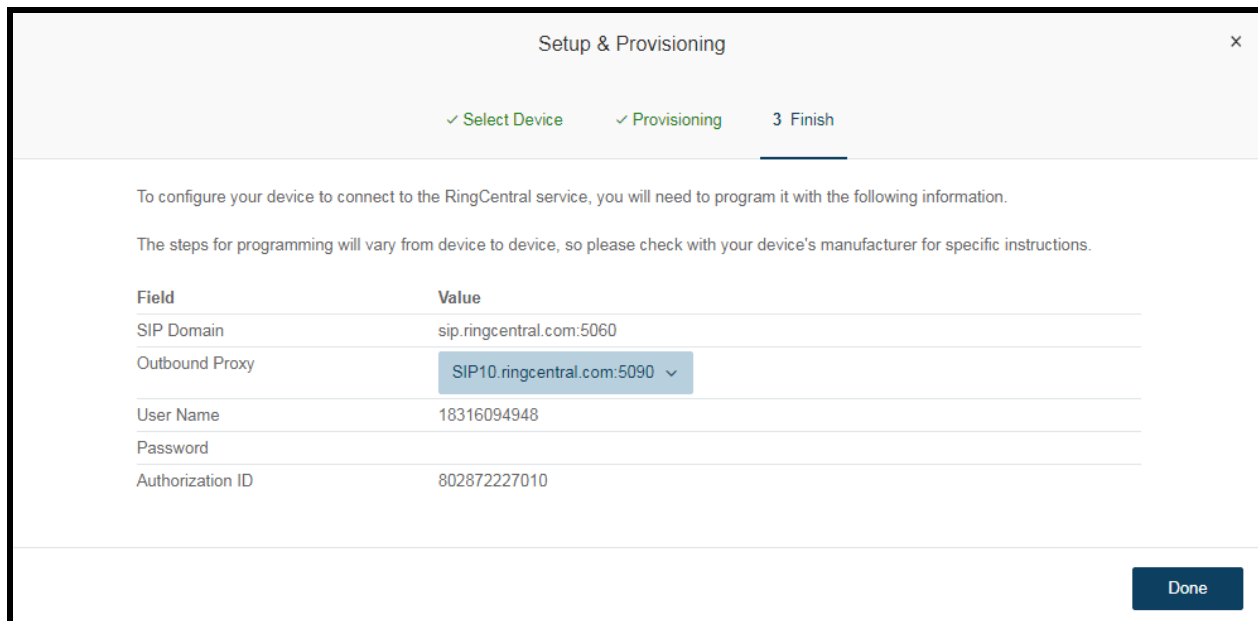
- A popup window labeled **Assisted provisioning – Step 1** will appear. Select **Other Phone** and click **Next**.

**Figure 6-6. Assisted Provisioning – Step 1**



7. A popup window labeled **Assisted Generic IP Phone/Adaptor Provisioning** will appear. The provisioning information will be used to register the amplifier's Nightringer extension with RingCentral.

**Figure 6-7. IP Phone Provisioning Information**



The screenshot shows a 'Setup & Provisioning' window with a progress bar at the top indicating three steps: 'Select Device' (checked), 'Provisioning' (checked), and '3 Finish' (active). Below the progress bar, there is instructional text and a table of configuration values.

To configure your device to connect to the RingCentral service, you will need to program it with the following information.

The steps for programming will vary from device to device, so please check with your device's manufacturer for specific instructions.

| Field            | Value                      |
|------------------|----------------------------|
| SIP Domain       | sip.ringcentral.com:5060   |
| Outbound Proxy   | SIP10.ringcentral.com:5090 |
| User Name        | 18316094948                |
| Password         | [Obscured]                 |
| Authorization ID | 802872227010               |

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

**Note:** The Password has been obscured. These values are published only for reference.

## SIP Fields Table

Use the following table to determine how the RingCentral SIP field values above correlate to the CyberData SIP field values.

**Table 6-1. CyberData Configuration Settings**

|                                                    |                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Primary SIP Server</b> field                    | From the IP Phone Provisioning Information popup: <b>SIP Server</b>            |
| <b>Primary SIP User ID</b> field                   | From the IP Phone Provisioning Information popup: <b>SIP User ID</b>           |
| <b>Primary SIP Auth ID</b> field                   | From the IP Phone Provisioning Information popup: <b>Authenticate ID</b>       |
| <b>Primary SIP Auth Password</b> field             | From the IP Phone Provisioning Information popup: <b>Authenticate Password</b> |
| <b>Outbound Proxy</b> field                        | From the IP Phone Provisioning Information popup: <b>Outbound Proxy</b>        |
| <b>Outbound Proxy Port</b> field                   | From the IP Phone Provisioning Information popup: <b>Outbound Proxy Port</b>   |
| <b>Re-registration Interval (in seconds)</b> field | <b>30</b>                                                                      |
| <b>Keep Alive Period</b> field                     | <b>0</b>                                                                       |
| <b>Force Selected Codec</b> checkbox               | <b>Yes</b>                                                                     |
| <b>Codec</b> dropdown                              | <b>PCMU (G.711, u-law)</b>                                                     |

## Configure Nightringer SIP Parameters

If configuring the Nightringer extension through the web interface, use the following steps to register Nightringer with RingCentral.

1. Review [Configure the SIP Parameters](#).
2. From the Home page of the web interface, click **SIP** from the top toolbar of the screen.

**Figure 6-8. Home Page of the Web Interface**

**Current Status**

Serial Number: 405000417  
 Mac Address: 00:20:f7:03:a3:2f  
 Firmware Version: v11.8.0

IP Addressing: DHCP  
 IP Address: 10.10.0.97  
 Subnet Mask: 255.0.0.0  
 Default Gateway: 10.0.0.1  
 DNS Server 1: 10.0.1.56  
 DNS Server 2:

SIP Mode: Enabled  
 Multicast Mode: Disabled  
 Event Reporting: Disabled  
 Nightringer: Enabled

Primary SIP Server: Registered  
 Backup Server 1: Not registered  
 Backup Server 2: Not registered  
 Nightringer Server: Registered

**Admin Settings**

Username: admin  
 Password:  
 Confirm Password:

Save Reboot Toggle Help

**Import Settings**

Choose File No file chosen  
 Import Config

**Export Settings**

Export Config

3. Enter the provisioning information from the [Assisted Generic IP Phone/Adaptor Provisioning](#) popup.

**Note:** The Local SIP Port is set to 5061 on default and is used by the amplifier as its source port for the Nightringer extension configured on this page.

4. Set the *Re-registration Interval (in seconds)* to **30 seconds**.
5. Set the keep alive period to **0**.
6. Enable Force Codec Selection and select **PCMU**.
7. Click **Save** and **Reboot** to store changes.

**Figure 6-9.** Nightringer Configuration Page of the Web Interface

# CyberData Paging Amplifier

### SIP Settings

Enable SIP operation: ☒

SIP Transport Protocol: UDP ▾

Register with a SIP Server: ☒

Use Cisco SRST: ☐

Primary SIP Server:

Primary SIP User ID:

Primary SIP Auth ID:

Primary SIP Auth Password:

Backup SIP Server 1:

Backup SIP User ID 1:

Backup SIP Auth ID 1:

Backup SIP Auth Password 1:

Backup SIP Server 2:

Backup SIP User ID 2:

Backup SIP Auth ID 2:

Backup SIP Auth Password 2:

Remote SIP Port:

Local SIP Port:

Outbound Proxy:

Outbound Proxy Port:

Disable rport Discovery: ☐

Buffer SIP Calls: ☐

Re-registration Interval (in seconds):

Unregister on Boot: ☐

Keep Alive Period:

### Nightringer Settings

Enable Nightringer: ☒

SIP Server:

Remote SIP Port:

Local SIP Port:

Outbound Proxy:

Outbound Proxy Port:

User ID:

Authenticate ID:

Authenticate Password:

Re-registration Interval (in seconds):

### RTP Settings

RTP Port (even):

Jitter Buffer:

### Call Disconnection

Terminate Call after delay:

### Codec Selection

Force Selected Codec: ☒

Codec: PCMU (G.711, u-law) ▾

Save

Reboot

Toggle Help

## Autoprovisioning

If autoprovisioning the amplifier, use the Nightringer Settings in the autoprovisioning template to register the Nightringer with RingCentral.

**Figure 6-10.** Autoprovisioning Template Example – Nightringer Settings

```
<NightringerSettings>
  <EnableNightringer>Yes</EnableNightringer>
  <NightringerSIPServer>sip.ringcentral.com</NightringerSIPServer>
  <NightringerRemotePort>5060</NightringerRemotePort>
  <NightringerLocalPort>5061</NightringerLocalPort>
  <NightringerOutboundProxy>sip20.ringcentral.com</NightringerOutboundProxy>
  <NightringerOutboundProxyPort>5090</NightringerOutboundProxyPort>
  <NightringerUserID>18312074707</NightringerUserID>
  <NightringerAuthID>191437726011</NightringerAuthID>
  <NightringerAuthPassword>*****</NightringerAuthPassword>
  <NightringerRegistrationTimeout>30</NightringerRegistrationTimeout>
</NightringerSettings>
```

**Note:** These example values are published only for reference. The NightringerAuthID value should be the actual value from the [Assisted Generic IP Phone/Adaptor Provisioning](#) popup.

## Verify the Nightringer is Registered

After the device has rebooted and initialized, refresh the [Home page of the web interface](#). The device should show as **[Registered with SIP Server]** in green text on the bottom of the Home Page of the web interface.

Additionally, the registration status may be verified with RingCentral through the admin portal. From the **Phones & Devices** menu, select **User Phones** and the IP Phone just created for the Nightringer. The status should show as “online” in the **Phone Details**.

**Figure 6-11. Phone Details – Status**

The screenshot shows the RingCentral Admin Portal interface. The left sidebar contains navigation options: Company Info, Phone Numbers, Auto-Receptionist, 8 Group(s) 0 Other(s), and Phones & Devices. The main content area is titled 'User Phones' and includes a search bar, status filter, and device filter. A table lists the following user phones:

| Status | Device                               | Assigned           | Phone Number   | Serial No.   | Action                                |
|--------|--------------------------------------|--------------------|----------------|--------------|---------------------------------------|
| ✗      | Cameron Device                       | Cameron Device     | (831) 272-0654 | N/A          | <a href="#">Setup &amp; Provision</a> |
| ✗      | Cameron Nightringer                  | Cameron Nightri... | (831) 272-0641 | N/A          | <a href="#">Setup &amp; Provision</a> |
| ✗      | Cameron Snom                         | Cameron Snom       | (831) 233-3994 | N/A          | <a href="#">Setup &amp; Provision</a> |
| ✗      | Christina Nightringer                | Kenny phone 3      | (831) 272-0630 | N/A          | <a href="#">Setup &amp; Provision</a> |
| ✗      | Christina Polycom VVX300             | Interop Polycom... | (831) 975-2610 | 0004F289C3B8 |                                       |
| ✓      | CyberData Nightringer Existing Phone | CyberData Night... | (831) 609-4948 | N/A          | <a href="#">Setup &amp; Provision</a> |

## Make a Test Call

Once the device has registered with RingCentral, any RingCentral phone may be used to dial the Nightringer extension.

## 7.0 Contact CyberData Corporation

### Sales

For sales-related questions, please visit our [Contact CyberData Sales](#) web page for more information.

### Technical Support

For CyberData Technical Support, please submit a [Contact CyberData VoIP Technical Support](#) form on our website.

The CyberData VoIP Technical Support Contact form initiates a troubleshooting ticket which CyberData uses for quality assurance purposes.

Additionally, the Contact VoIP Tech Support form tells us which phone system you are using, the make and model of the network switch, and other essential troubleshooting information we need to efficiently assist with a resolution. Please also include as much detail as possible in the Describe Problem section of the form. Your installation is extremely important to us.

### Documentation Feedback

We realize changes to the software or hardware of the RingCentral Cloud PBX solution may render this document obsolete. We welcome and encourage documentation feedback to ensure continued applicability.