



RING CENTRAL CONFIGURATION GUIDE: SIP- ENABLED IP SPEAKERS

Document Part #931039D

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RingCentral Configuration Guide: SIP-Enabled IP Speakers
Document #931039D

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- Initial release

Revision 931039B was released on September 18th, 2017.

- This revision features new device screenshots and updated configuration steps.

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- Updated extension creation process on RingCentral side

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- Corrected nomenclature inconsistencies.

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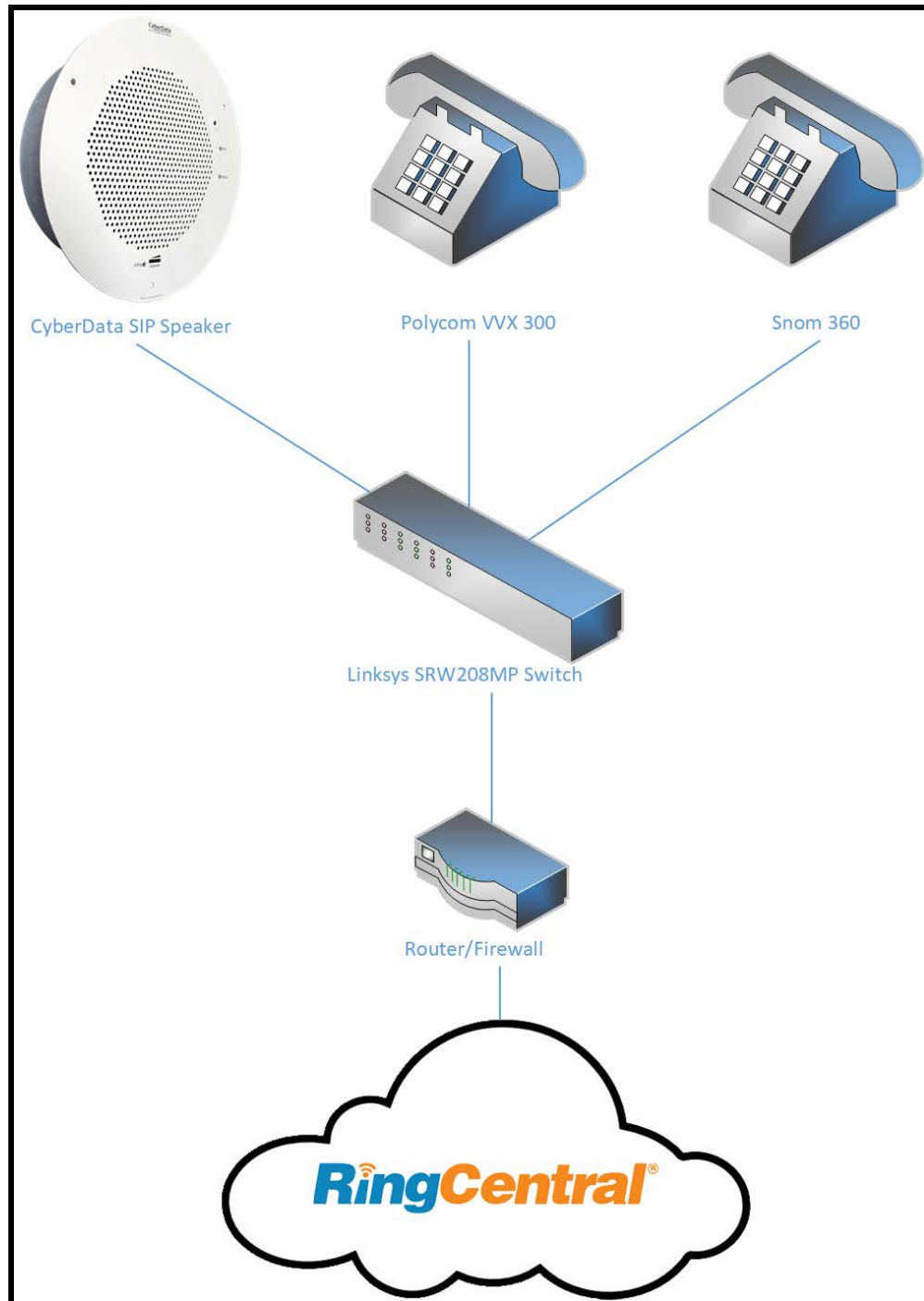
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1.0 Setup Diagram

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 SIP SPEAKER	011393 011394	v12.1.1
CYBERDATA SIP TALKBACK SPEAKER	011397 011398	v12.1.1
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 IP Speaker.

Network Advisories

RingCentral uses a Fully Qualified Domain Name (FQDN) for the SIP server and Outbound Proxy addresses. The CyberData speakers need 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 speakers to use:

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

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

The speaker'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 extension are configurable on the **SIP Configuration** page of the web interface. Use the **Nightringer Configuration** page to configure SIP ports for the Nightringer extension.

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

Product Documentation and Utilities

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

<http://www.cyberdata.net/voip/011393/>

The CyberData Discovery Utility can be used to locate CyberData devices on the local network. The tool may be download it from the following web address:

<http://www.cyberdata.net/assets/common/discovery.zip>

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

4.0 Configuration Procedure: Auto-Answer Paging

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

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

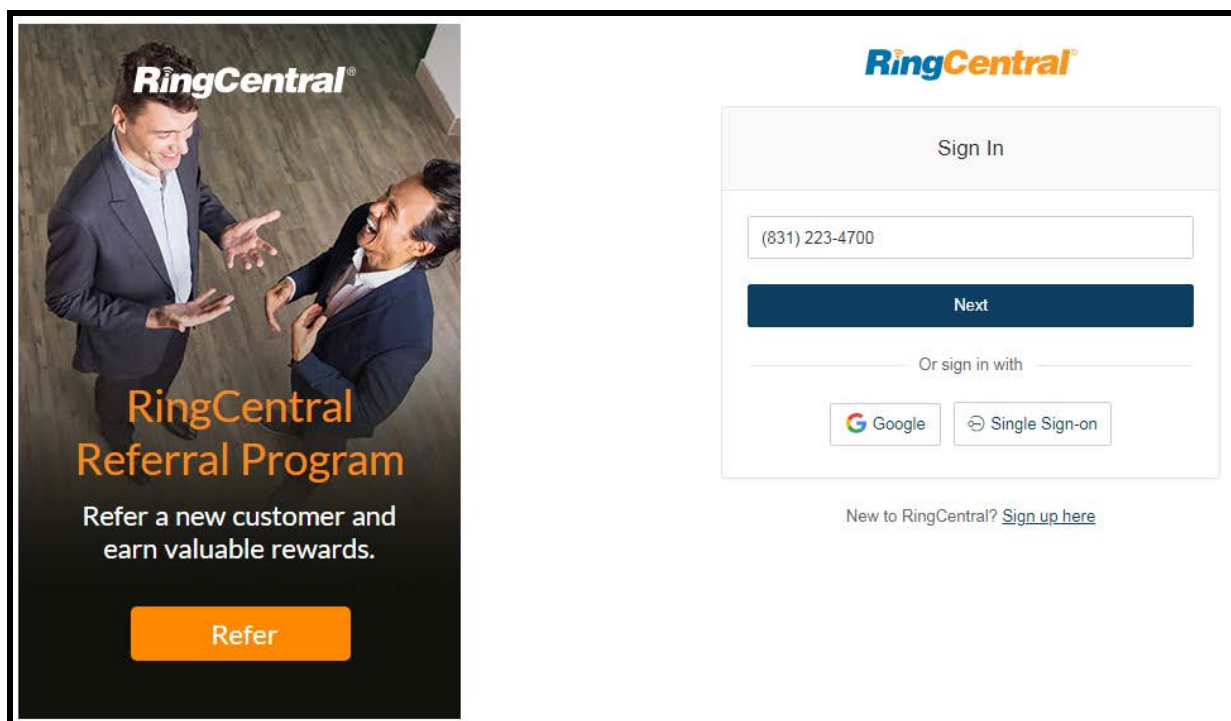
Add a Paging Extension

This section describes the process of creating a user, provisioning a paging device, and registering the paging extension that will be used for paging with RingCentral. First, a user must be created for the speaker.

Use the following steps to create a user and provision a paging device for the speaker's primary extension through the RingCentral Admin Portal.

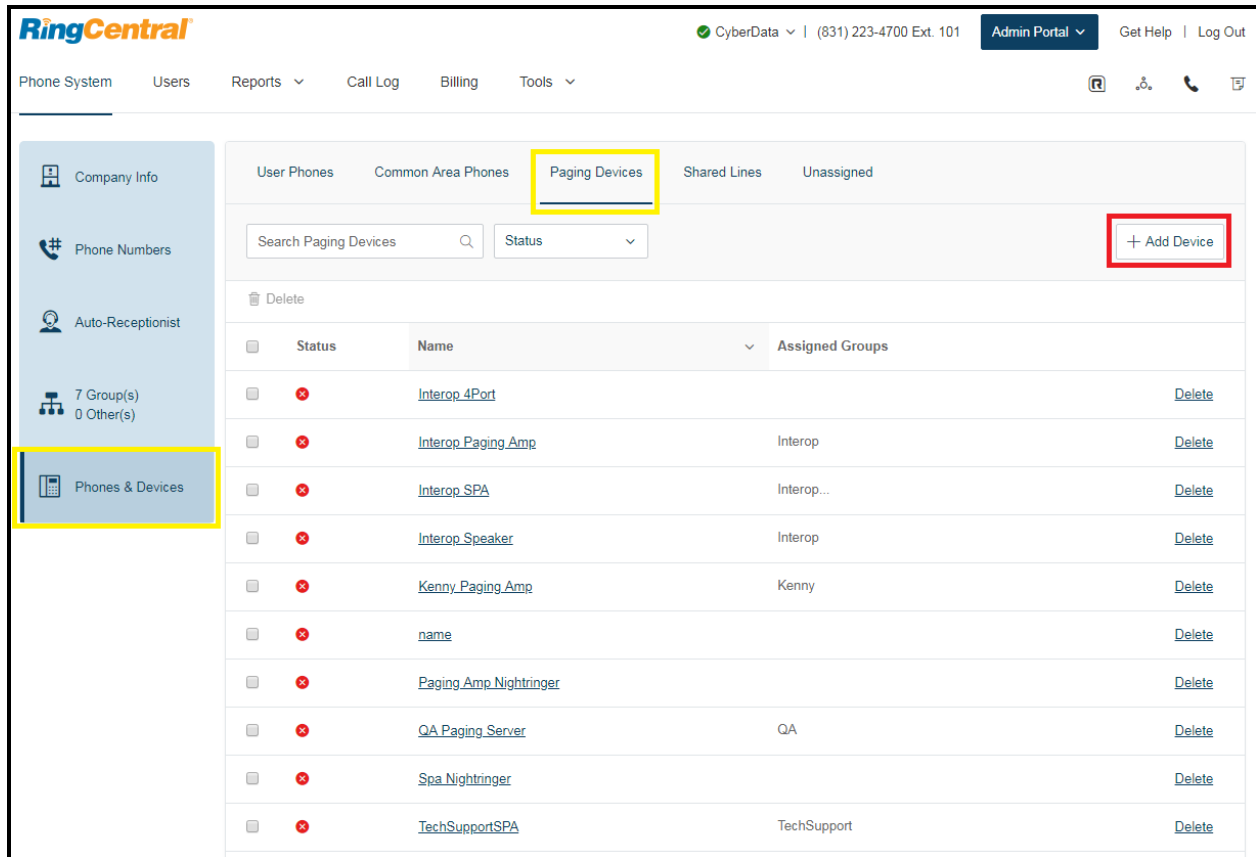
1. Login to the RingCentral Admin Portal at <https://service.ringcentral.com>.

Figure 4-1. RingCentral Admin Portal Login



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

Figure 4-2. Add Device



The screenshot displays the RingCentral Admin Portal interface. In the left-hand navigation menu, the 'Phones & Devices' option is highlighted with a yellow box. The main content area shows the 'Paging Devices' tab selected, also highlighted with a yellow box. At the top right of the main content area, there is a search bar, a status dropdown, and a red box highlighting the '+ Add Device' button. Below this, there is a table listing various paging devices.

Status	Name	Assigned Groups	Action
<input type="checkbox"/>	Interop 4Port		Delete
<input type="checkbox"/>	Interop Paging Amp	Interop	Delete
<input type="checkbox"/>	Interop SPA	Interop...	Delete
<input type="checkbox"/>	Interop Speaker	Interop	Delete
<input type="checkbox"/>	Kenny Paging Amp	Kenny	Delete
<input type="checkbox"/>	name		Delete
<input type="checkbox"/>	Paging Amp Nightringer		Delete
<input type="checkbox"/>	QA Paging Server	QA	Delete
<input type="checkbox"/>	Spa Nightringer		Delete
<input type="checkbox"/>	TechSupportSPA	TechSupport	Delete

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

Figure 4-3. Add Paging Device - Nickname

The screenshot shows a dialog box titled "Add Paging Device" with a close button (X) in the top right corner. Below the title bar, there are two tabs: "1 Device Nickname" (which is selected and underlined) and "2 Provisioning Info". The main content area of the dialog box contains the following text: "The following paging devices are supported by RingCentral:" followed by a bulleted list: "- CyberData SIP-enabled IP V2 Paging Speaker" and "- CyberData SIP-enabled IP V2 Paging Amplifier". Below this list, there is a label "Paging Device Nickname" and a text input field containing the text "CyberData SIP Speaker". At the bottom right of the dialog box, there are two buttons: "Cancel" and "Next". The "Next" button is highlighted with a yellow border.

4. A popup window labeled **Generic Paging Device Provisioning** will appear. The credentials will be used to register the SIP speaker's primary extension with RingCentral.

Figure 4-4. 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.

Field	Value
SIP Domain	sip.ringcentral.com
Remote SIP port	5060
Local SIP port	5060
Outbound Proxy	sip20.ringcentral.com
Outbound Proxy Port	5090
User Name	18312234700*803304087011
Authorization ID	803304087011
Password	

Done

Note: The 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**.

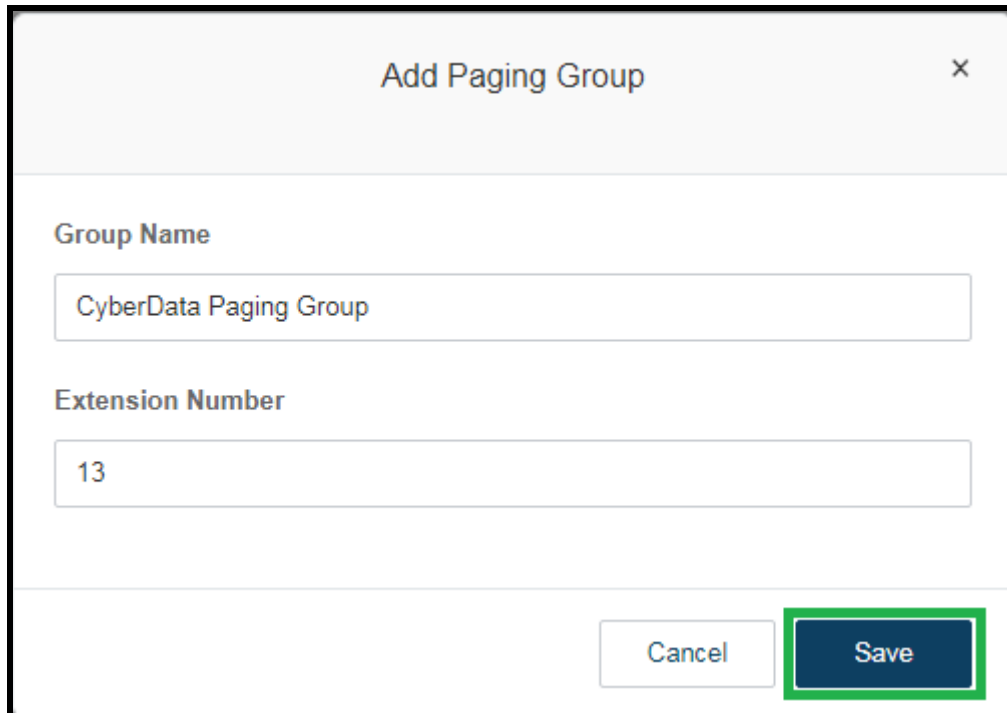
Figure 4-5. Add Group

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.
✓	Interop	Interop Speaker ...	11
✓	Interop2	Interop SPA	12
✓	Kenny	Kenny Paging Amp	3
✓	QA	QA Paging Server	8
✓	QA Paging		10
✓	TechSupport	TechSupportSPA	7

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

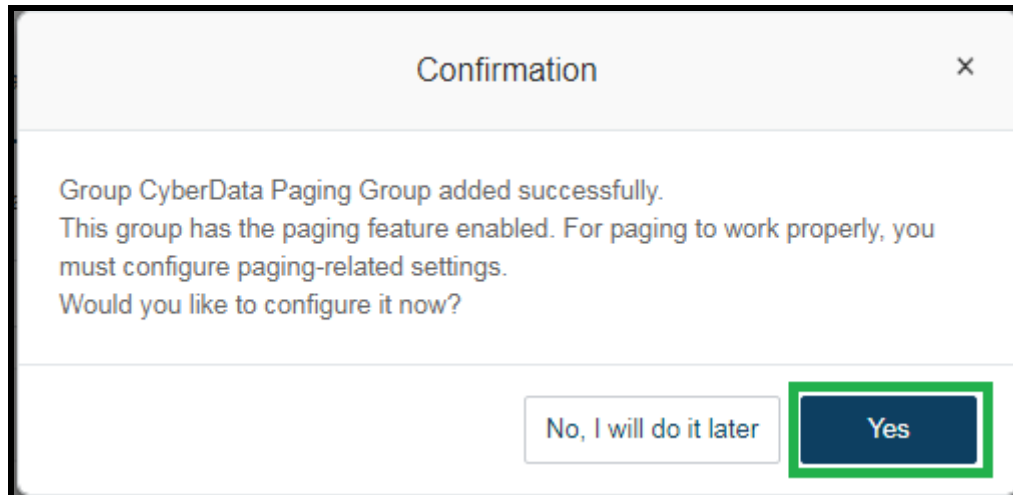
Figure 4-6. Add Paging Group



The screenshot shows a modal window titled "Add Paging Group" with a close button in the top right corner. The window contains two text input fields. The first field, labeled "Group Name", contains the text "CyberData Paging Group". The second field, labeled "Extension Number", 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.

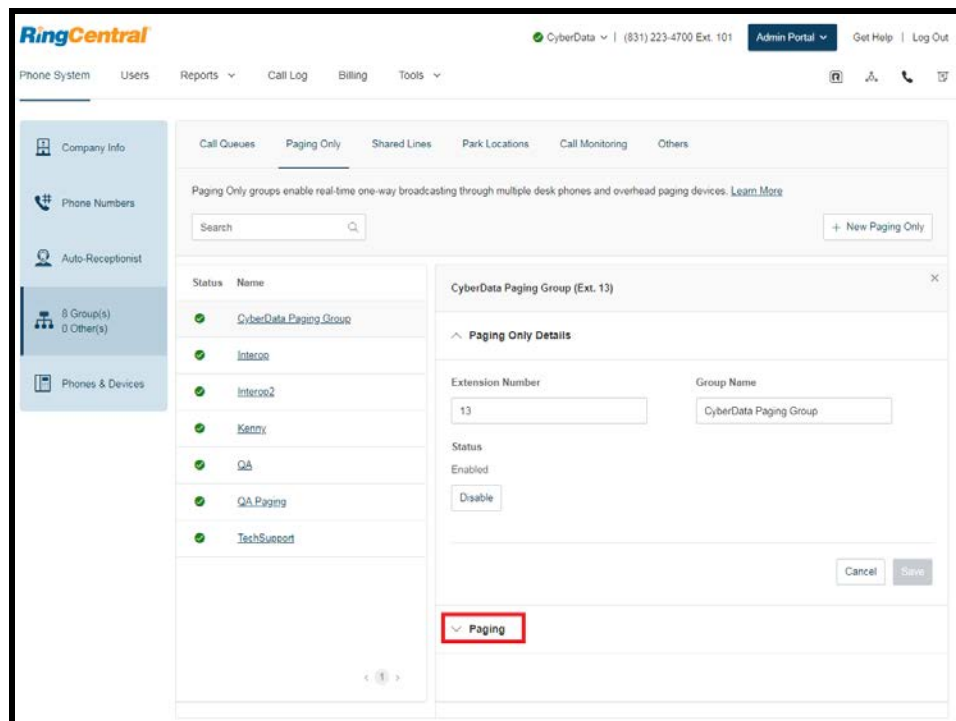
7. A confirmation screen will confirm the paging group has been created. Select **Yes** to configure paging settings.

Figure 4-7. Confirmation



8. 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



- 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

CyberData Paging Group (Ext. 13)

Paging Only Details

Paging

Devices to Receive Page

Users Allowed to Page this Group

Only-Paging capable phones are displayed in the list. You can select up to 25 devices.

Search

Phone Type: All Phone T...

Show All | [Show Selected \(4\)](#)

	Phone Type	Phone Name	Ext.
<input type="checkbox"/>	User Phone	Christina PolycomV VX300	104
<input checked="" type="checkbox"/>	Paging Device	CyberData Paging Amp	-
<input checked="" type="checkbox"/>	Paging Device	CyberData SIP Paging Adapter	-
<input type="checkbox"/>	Paging Device	CyberData SIP Paging Server	-
<input checked="" type="checkbox"/>	Paging Device	CyberData SIP Speaker	-
<input checked="" type="checkbox"/>	Paging Device	Paging Amp Nightringer	-
<input type="checkbox"/>	User Phone	QA Polycom	602
<input type="checkbox"/>	Paging Device	SIP IP66 Outdoor Horn	-

Total: 8

Show: 10

< 1 >

Cancel

Save

10. 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

The screenshot shows the 'Paging' configuration interface. The 'Users Allowed to Page this Group' tab is selected. Below the tab is a search bar and a dropdown for 'All Departments'. A table lists users with checkboxes for selection. Three users are selected: CyberData Corporation, Interop PolycomV VX300, and Interop Snom360. The 'Save' button is highlighted.

	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 PolycomV VX300	104	
<input checked="" type="checkbox"/>	Interop Snom360	103	
<input type="checkbox"/>	Interop Strobe	942	
<input type="checkbox"/>	Kenny phone 2	938	

Total: 23 Show: 10 < 1 2 3 >

Cancel Save

11. 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 SIP Speaker's operation guide for complete information on configuration through the web interface and CyberData's "autoprovisioning" method using templates via HTTP, HTTPS, and TFTP protocols.

Table 4-1 CyberData Configuration Settings

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

Web Configuration

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

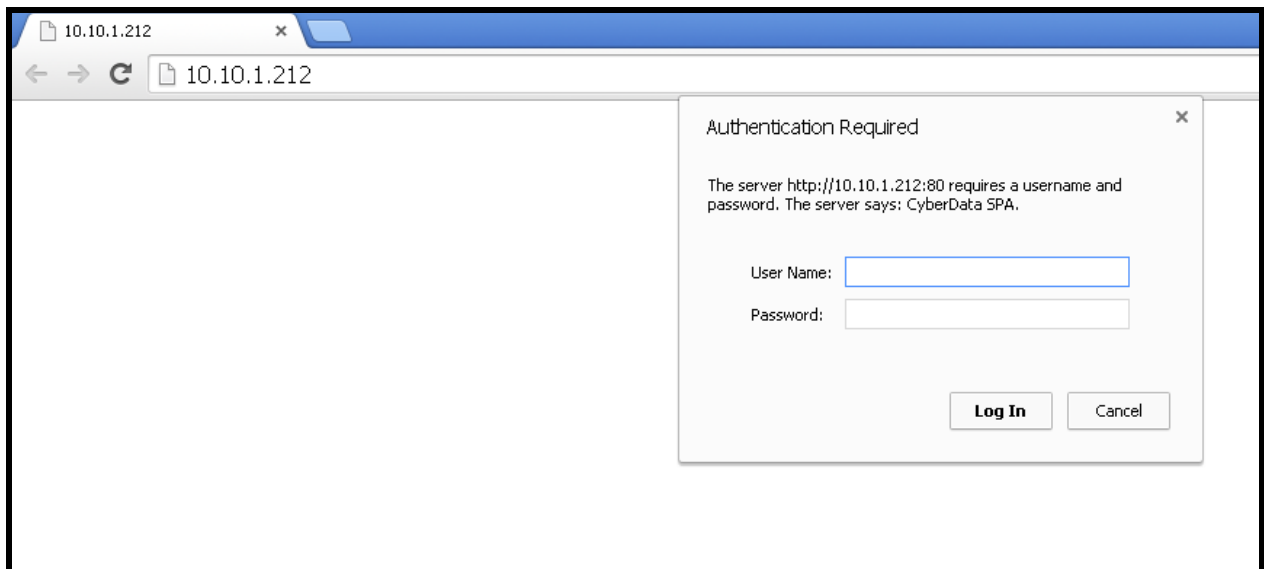


Figure 4-12. Home Page of Speaker Web Interface

Home Device Network **SIP** Multicast Sensor Audiofiles Events Autopro Firmware

CyberData V3.1 Speaker

Current Status

Serial Number: 393100825
Mac Address: 00:20:f7:03:91:03
Firmware Version: v11.6.9

IP Addressing: DHCP
IP Address: 10.10.1.154
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: **Not registered**
Backup Server 1: Not registered
Backup Server 2: Not registered
Nightringer Server: Not registered
Monitor SIP 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 Config** on the top toolbar to access the SIP Configuration page.

***Note:** The firmware version and registration status for the paging 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 Speaker 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 4-13. SIP Configuration

CyberData V3.1 Speaker

SIP Settings

Enable SIP operation: ☒

Register with a SIP Server: ☒

Use Cisco SRST: ☐

Primary SIP Server: sip.ringcentral.com

Primary SIP User ID: 18312234700*803304087011

Primary SIP Auth ID: 803304087011

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: 5060

Local SIP Port: 5060

Outbound Proxy: sip20.ringcentral.com

Outbound Proxy Port: 5090

Monitor User ID: 200

Monitor Authenticate ID: 200

Monitor Authenticate Password: *****

Disable rport Discovery: ☐

Buffer SIP Calls: ☐

Re-registration Interval (in seconds): 30

Unregister on Boot: ☐

Keep Alive Period: 0

Nightringer Settings

Enable Nightringer: ☐

SIP Server: 10.0.0.253

Remote SIP Port: 5060

Local SIP Port: 5061

Outbound Proxy:

Outbound Proxy Port: 0

User ID: 241

Authenticate ID: 241

Authenticate Password: *****

Re-registration Interval (in seconds): 360

RTP Settings

RTP Port (even): 10500

Jitter Buffer: 50

Call Disconnection

Terminate Call after delay: 0

Codec Selection

Force Selected Codec: ☒

Codec: PCMU (G.711, u-law)

Button Settings

Dial Out Extension: 204

Extension ID: id204

Save **Reboot**

Autoprovisioning

If autoprovisioning the Speaker, use the SIP Settings in the autoprovisioning template to register the Speaker 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/collections/sip/products/011393>

Be sure to use the autoprovisioning template for the firmware version running on the Speaker. 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>
  <RemoteSIPPort>5060</RemoteSIPPort>
  <BackupSIPServer1></BackupSIPServer1>
  <BackupSIPServer2></BackupSIPServer2>
  <LocalSIPPort>5060</LocalSIPPort>
  <OutboundProxy>sip20.ringcentral.com</OutboundProxy>
  <OutboundProxyPort>5090</OutboundProxyPort>
  <SIPUserID>18312234700*194773016011</SIPUserID>
  <SIPAuthID>194773016011</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>
```

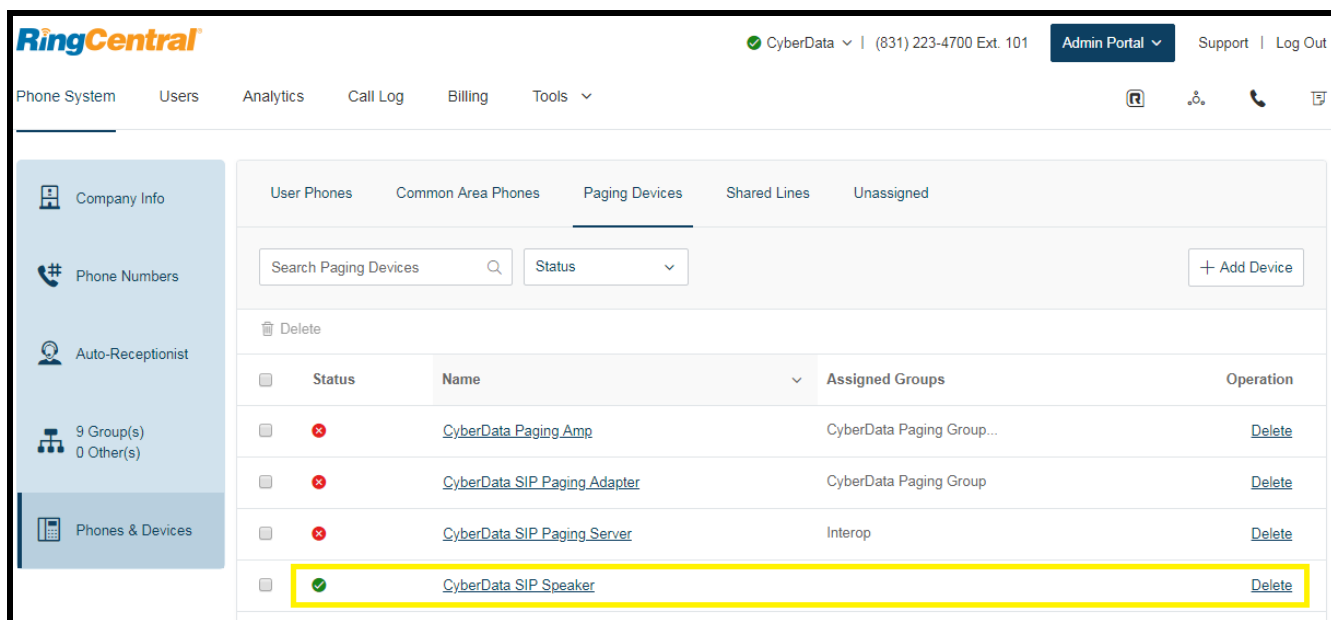
Note: These example values are published only for reference. The SIPAuthPassword value should be the actual value from the [Generic Paging Device Provisioning](#) popup window.

Verify the Paging Extension is Registered

After the Speaker 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 **Devices** and the Paging Device just created for the Speaker. The status should show as “online” in the **Device Details**.

Figure 4-15. Device Details – Status



Make a Test Call

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

Refer to [RingCentral Article Number 5983](#) 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 SIP Speaker's primary extension can be provisioned as an IP phone associated with a user extension. Provisioning as a Paging Device does not allow the speaker to transmit audio back to the calling phone (talkback speaker) OR does not allow for sending of DTMF characters for stored message playback

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

- Talkback*
- Playing up to 9 configurable stored pages
- Security code

**Note* Talkback is only possible for the 011397/011398.*

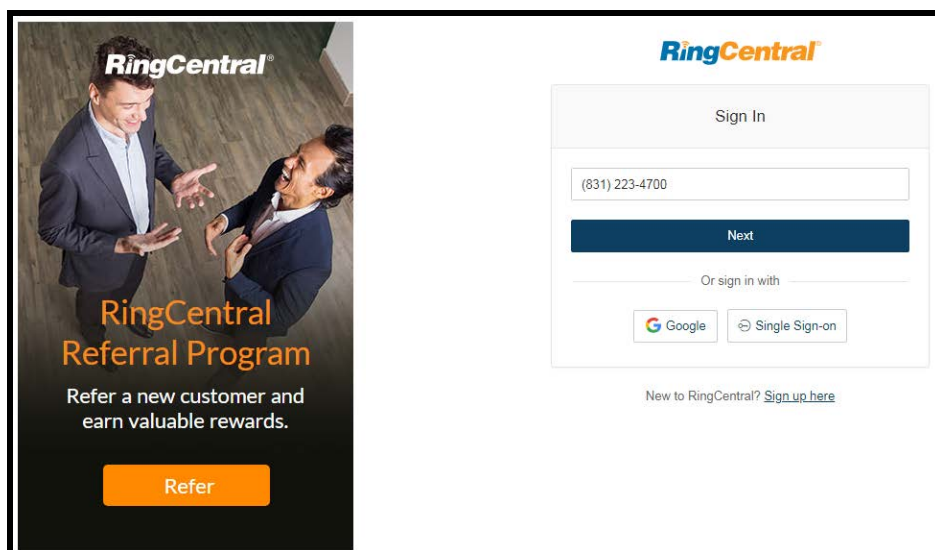
Add an IP Phone

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 designated for the SIP Speaker.

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 button is a table of users with columns for Status, Name, Number, Ext., Roles, Department, and Msg. The table lists various users including 'Available User2', 'Cameron Device', 'Cameron Night...', 'Cameron Snom', 'CyberData Cor...', 'Group User', 'Interop Polyc...', 'Interop Snom360', 'Interop Strobe', 'Kenny_phone 2', and 'Kenny_phone 3'.

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

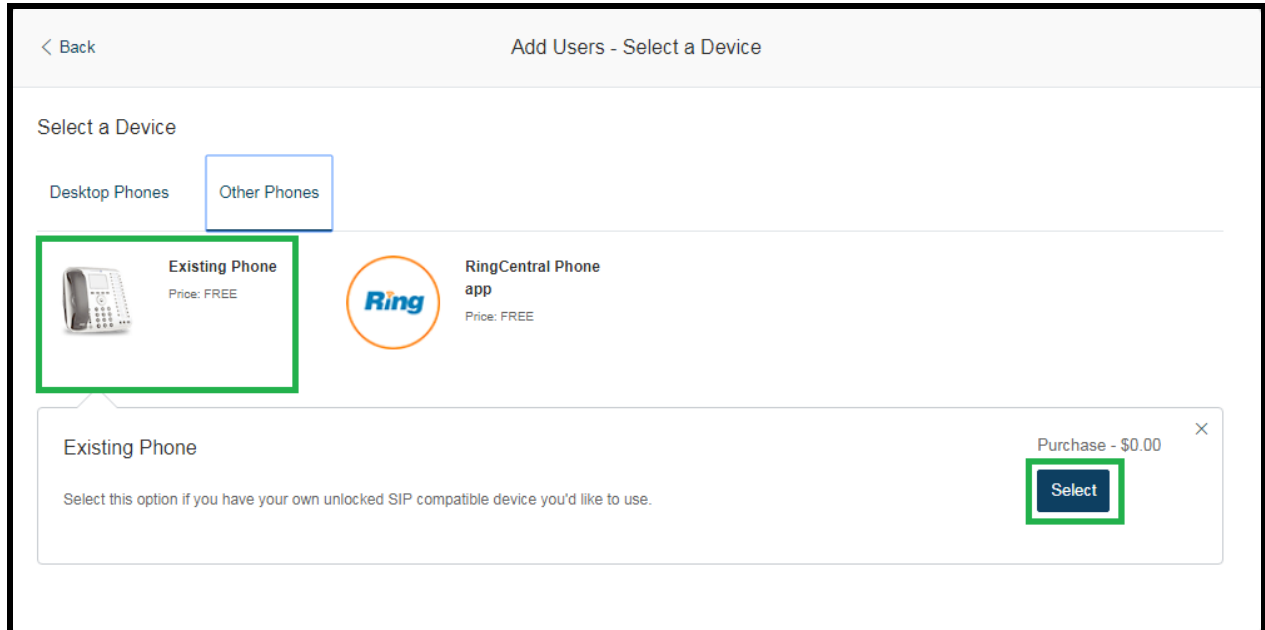
4. In the subsection **Add Users with Phones**, select the number of users, state, area code, and device.

Figure 5-4. Pick a Phone Number

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

5. Next a prompt will ask 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. Next, the process will lead through a six-step ordering process to set up a RingCentral Digital Line. Click the **Select** button to choose an **Existing Phone** and follow the steps in the ordering window to complete the order.

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

Figure 5-6. Setup and Provision

The screenshot shows the RingCentral Admin Portal interface. On the left is a sidebar with navigation options: Company Info, Phone Numbers, Auto-Receptionist, 9 Group(s) 0 Other(s), and Phones & Devices (selected). The main area displays the 'User Phones' tab with a search bar and filters. Below is a table of user phones with columns for Status, Device, Assigned, Phone Number, Serial No., and Operation. The 'Operation' column for the 'CyberData SIP Speaker' row has a 'Setup & Provision' link highlighted with a yellow box.

Status	Device	Assigned	Phone Number	Serial No.	Operation
✖	Cameron Device	Cameron Device	(831) 272-0654	N/A	Setup & Provision
✖	Cameron Nightringer	Cameron Nightri...	(831) 272-0641	N/A	Setup & Provision
✖	Cameron Snom	Cameron Snom	(831) 233-3994	N/A	Setup & Provision
✖	Christina PolycomVWX300	Interop Polycom...	(831) 975-2610	0004F269C3B8	
✖	CyberData Nightringer Existing Phone	CyberData Night...	(831) 609-4948	N/A	Setup & Provision
✖	CyberData Outdoor Intercom	CyberData Pagine...	(831) 610-4933	N/A	Setup & Provision
✖	CyberData Paging Server NightRinger	Paging Server	(831) 233-3993	N/A	Setup & Provision
✖	CyberData SIP Paging Adapter	Kenny phone 3	(831) 272-0630	N/A	Setup & Provision
✖	CyberData SIP Speaker	Interop Snom360	(831) 233-3992	N/A	Setup & Provision

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

Figure 5-7. Assisted provisioning – Step 1

Setup & Provisioning

1 Select Device 2 Provisioning 3 Finish

In addition to the devices RingCentral sells pre-provisioned, RingCentral supports assisted provisioning for additional models. If your model is not available via assisted provisioning, RingCentral may have documented how to manually configure it. Please see the [office devices](#) page for more information.

Select your phone model to begin:

Cisco / Linksys IP Devices Polycom IP Phones Yealink IP Phones **Other Phones**

Existing Phone

Select

Cancel

9. A popup window labeled **Assisted Generic IP Phone/Adaptor Provisioning** will appear. The provisioning information to register the primary extension with RingCentral.

Figure 5-8. IP Phone Provisioning Information

Setup & Provisioning

✓ Select Device ✓ Provisioning 3 Finish

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	18312333992
Password	
Authorization ID	802910798011

Done

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. SIP Fields Table

CyberData SIP Field	RingCentral SIP Field
SIP Server	SIP Domain (without colon and port number)
SIP User ID	User Name
Authenticate ID	Authorization ID
Authenticate Password	Password
Outbound Proxy	Outbound Proxy address before colon
Outbound Proxy Port	Port number following colon in Outbound Proxy address

Configure SIP Parameters

If configuring through the web interface, use the following steps to login to the web interface of the Speaker 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 of the screen to access the SIP Configuration 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 Speaker as its source port for the paging 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 V3.1 Speaker

SIP Settings

Enable SIP operation: ☒
 Register with a SIP Server: ☒
 Use Cisco SRST: ☐
 Primary SIP Server: sip.ringcentral.com
 Primary SIP User ID: 18312333992
 Primary SIP Auth ID: 802910798011
 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: 5060
 Local SIP Port: 5060
 Outbound Proxy: sip10.ringcentral.com
 Outbound Proxy Port: 5090
 Monitor User ID: 200
 Monitor Authenticate ID: 200
 Monitor Authenticate Password: *****
 Disable rport Discovery: ☐
 Buffer SIP Calls: ☐
 Re-registration Interval (in seconds): 30
 Unregister on Boot: ☐
 Keep Alive Period: 0

Nightringer Settings

Enable Nightringer: ☐
 SIP Server: 10.0.0.253
 Remote SIP Port: 5060
 Local SIP Port: 5061
 Outbound Proxy:
 Outbound Proxy Port: 0
 User ID: 241
 Authenticate ID: 241
 Authenticate Password: *****
 Re-registration Interval (in seconds): 360

RTP Settings

RTP Port (even): 10500
 Jitter Buffer: 50

Call Disconnection

Terminate Call after delay: 0

Codec Selection

Force Selected Codec: ☒
 Codec: PCMU (G.711, u-law)

Button Settings

Dial Out Extension: 204
 Extension ID: id204

Save

Reboot

Toggle Help

Autoprovisioning

If autoprovisioning the SIP Speaker, use the SIP Settings in the autoprovisioning template to register the paging 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>sip10.ringcentral.com</OutboundProxy>
  <OutboundProxyPort>5090</OutboundProxyPort>
  <SIPUserID>18312333992</SIPUserID>
  <SIPAuthID>802910798011</SIPAuthID>
  <SIPAuthPassword>*****</SIPAuthPassword>
  <SIPUserID2></SIPUserID2>
  <SIPAuthID2></SIPAuthID2>
  <SIPAuthPassword2></SIPAuthPassword2>
  <SIPUserID3></SIPUserID3>
  <SIPAuthID3></SIPAuthID3>
  <SIPAuthPassword3></SIPAuthPassword3>
  <MonitorUserID>200</MonitorUserID>
  <MonitorAuthID>200</MonitorAuthID>
  <MonitorAuthPassword>ext200</MonitorAuthPassword>
  <SIPRegistrationTimeout>30</SIPRegistrationTimeout>
  <SIPUnregisterOnBoot>No</SIPUnregisterOnBoot>
  <SIPRegisterOnBoot>Yes</SIPRegisterOnBoot>
  <BufferSIPCalls>No</BufferSIPCalls>
  <RTPPort>10500</RTPPort>
  <JitterBuffer>50</JitterBuffer>
  <CallTimeout>0</CallTimeout>
  <UseCiscoSRST>No</UseCiscoSRST>
  <DisableRportDiscovery>No</DisableRportDiscovery>
  <DialoutExtension0>204</DialoutExtension0>
  <DialoutID0>id204</DialoutID0>
  <NatPingOptions>No</NatPingOptions>
  <KeepAlive>0</KeepAlive>
  <DefaultCodec>1</DefaultCodec>
</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 Paging Extension Is Registered

After the Speaker 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 may be verified through RingCentral through the Admin Portal. From the **Phones & Devices** menu, select **User Phones** and the IP Phone created for the Speaker. 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 top navigation bar includes the RingCentral logo, user information (CyberData, (831) 223-4700 Ext. 101), and links to Admin Portal, Support, and Log Out. The main navigation menu on the left includes Phone System, Users, Analytics, Call Log, Billing, and Tools. The 'Phones & Devices' section is expanded, showing a list of devices under the 'User Phones' tab. The list includes columns for Status, Device, Assigned, Phone Number, Serial No., and Operation. The 'CyberData SIP Speaker' device is highlighted in yellow, showing a green status icon and the text 'Registered with SIP Server'.

Status	Device	Assigned	Phone Number	Serial No.	Operation
✖	Cameron Device	Cameron Device	(831) 272-0654	N/A	Setup & Provision
✖	Cameron Nightringer	Cameron Nightri...	(831) 272-0641	N/A	Setup & Provision
✖	Cameron Snom	Cameron Snom	(831) 233-3994	N/A	Setup & Provision
✖	Christina PolycomVX300	Interop Polycom...	(831) 975-2610	0004F289C3B8	
✖	CyberData Nightringer Existing Phone	CyberData Night...	(831) 609-4948	N/A	Setup & Provision
✖	CyberData Outdoor Intercom	CyberData Pagin...	(831) 610-4933	N/A	Setup & Provision
✖	CyberData Paging_Server NightRinger	Paging Server	(831) 233-3993	N/A	Setup & Provision
✖	CyberData SIP Paging Adapter	Kenny phone 3	(831) 272-0630	N/A	Setup & Provision
✔	CyberData SIP Speaker	Interop Snom360	(831) 233-3992	N/A	Setup & Provision

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

6.0 Configuration Procedure: Nightringer

What is a Nightringer?

The CyberData SIP-enabled IP Speaker offers 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 paging extension.

It is important to note the Paging 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 which allows 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.”](#)

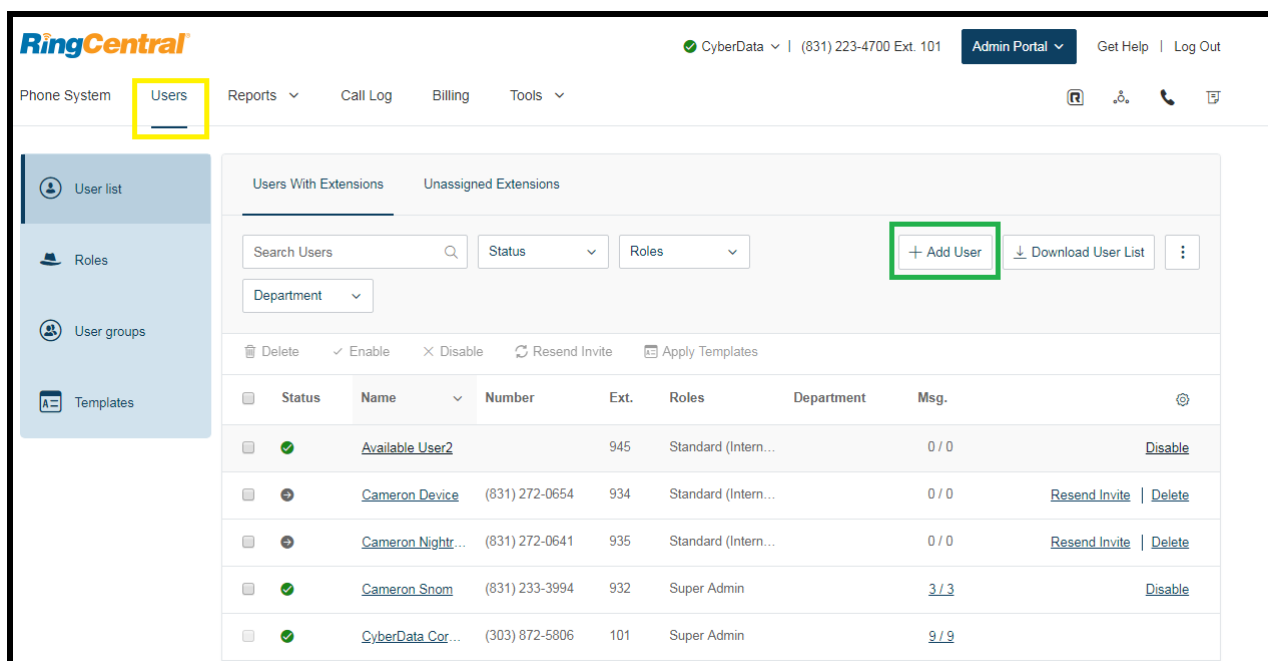
Add an IP Phone

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

First, designate a RingCentral User 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

The screenshot shows a web-based 'Add Users' popup window. At the top, the title 'Add Users' is centered, with a close button (X) on the right. Below the title is a progress bar with four steps: '1 Location', '2 Add Users', '3 Shipping Address', and '4 Confirmation'. The first step, '1 Location', is currently selected and underlined. The main content area of the popup is titled 'Select a Location' and contains two radio button options: 'Domestic' (which is selected) and 'International'. At the bottom right of the popup, there are two buttons: a light gray 'Cancel' button and a dark blue 'Next' button. The 'Next' button is highlighted with a green rectangular border.

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

Add Users

✓ Location 2 Add Users 3 Shipping Address 4 Confirmation

Add Users With Phones Add Users Without Phones

Account Status

Your plan: 20 - 99 Users Used: 25 Available: 0 Available for purchase: 74

You can add multiple users at a time if they will all use the same area code. [Learn More](#)

Number of Users State Area Code Device

1 Select Select Select a Device... >

Add

Back Next

4. Next, select a phone type. Click the **Select** button to choose an **Existing Phone**. Select **Existing Phone**.

Figure 6-4. Select Phone Type

The screenshot shows a web interface titled "Add Users - Select a Device". At the top left is a "< Back" link. Below the title, there's a "Select a Device" section with two tabs: "Desktop Phones" and "Other Phones". The "Other Phones" tab is selected and highlighted with a blue border. Under this tab, there are two options: "Existing Phone" (with a phone icon and "Price: FREE") and "RingCentral Phone app" (with the Ring logo and "Price: FREE"). The "Existing Phone" option is highlighted with a green border. Below these options is a detailed view for the "Existing Phone" option, which includes the text "Select this option if you have your own unlocked SIP compatible device you'd like to use." and a "Select" button. The "Select" button is highlighted with a green border. In the top right corner of this detailed view, it says "Purchase - \$0.00" with a close icon (X).

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

Figure 6-5. Setup and Provision

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 (selected). The main content area is titled 'User Phones' and includes a search bar, status filter, and device filter. A table lists user phones with columns for Status, Device, Assigned, Phone Number, and Serial No. The 'CyberData Nightringer Existing Phone' row is highlighted, and its 'Setup & Provision' link is enclosed in a yellow box.

Status	Device	Assigned	Phone Number	Serial No.	
✖	Cameron Device	Cameron Device	(831) 272-0654	N/A	Setup & Provision
✖	Cameron Nightringer	Cameron Nightri...	(831) 272-0641	N/A	Setup & Provision
✖	Cameron Snom	Cameron Snom	(831) 233-3994	N/A	Setup & Provision
✖	Christina Nightringer	Kenny phone 3	(831) 272-0630	N/A	Setup & Provision
✖	Christina PolycomVX300	Interop Polycom...	(831) 975-2610	0004F289C3B8	
✖	CyberData Nightringer Existing Phone	CyberData Night...	(831) 609-4948	N/A	Setup & Provision

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

Figure 6-6. Assisted Provisioning – Step 1

Setup & Provisioning

1 Select Device 2 Provisioning 3 Finish

In addition to the devices RingCentral sells pre-provisioned, RingCentral supports assisted provisioning for additional models. If your model is not available via assisted provisioning, RingCentral may have documented how to manually configure it. Please see the [office devices](#) page for more information.

Select your phone model to begin:

Cisco / Linksys IP Devices Polycom IP Phones Yealink IP Phones Other Phones

Existing Phone

Select

Cancel

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

Figure 6-7. IP Phone Provisioning Information

The screenshot shows a 'Setup & Provisioning' window with a close button (X) in the top right corner. Below the title bar, there are three steps: 'Select Device' (checked), 'Provisioning' (checked), and '3 Finish' (active). The main content area contains instructions: '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.' Below this is a table with provisioning information.

Field	Value
SIP Domain	sip.ringcentral.com:5060
Outbound Proxy	SIP10.ringcentral.com:5090
User Name	18316094948
Password	
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

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

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** on the toolbar on the top side of the screen.

Figure 6-8. Home Page of the Web Interface

Home Device Network **SIP** Multicast Sensor Audiofiles Events Autoprov Firmware

CyberData V3.1 Speaker

Current Status

Serial Number: 393100825
Mac Address: 00:20:f7:03:91:03
Firmware Version: v11.6.9

IP Addressing: DHCP
IP Address: 10.10.1.154
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

Admin Settings

Username: admin
Password:
Confirm Password:

Save Reboot Toggle Help

Import Settings

Choose File No file chosen

Import Config

Export Settings

Export Config

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

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

***Note:** The Local SIP Port is set to 5061 on default and is used by the SIP Speaker 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 V3.1 Speaker

SIP Settings

Enable SIP operation: ☒

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:

Monitor User ID:

Monitor Authenticate ID:

Monitor Authenticate Password:

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:

Button Settings

Dial Out Extension:

Extension ID:

Autoprovisioning

If autoprovisioning the SIP Speaker, 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>sip10.ringcentral.com</NightringerOutboundProxy>
  <NightringerOutboundProxyPort>5090</NightringerOutboundProxyPort>
  <NightringerUserID>18316094948</NightringerUserID>
  <NightringerAuthID>802872227010</NightringerAuthID>
  <NightringerAuthPassword>*****</NightringerAuthPassword>
  <NightringerRegistrationTimeout>30</NightringerRegistrationTimeout>
</NightringerSettings>
```

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

Verify the Nightringer is Registered

After the SIP Speaker 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. Nightringer Phone Details – Status

The screenshot shows the RingCentral Admin Portal interface. The left sidebar contains navigation options: Company Info, Phone Numbers, Auto-Receptionist, 9 Group(s) 0 Other(s), and Phones & Devices. The main content area is titled 'User Phones' and includes a search bar, status and device filters, and a '+ Add Device' button. A table lists the registered devices with columns for Status, Device, Assigned, Phone Number, Serial No., and Operation. The last row, 'CyberData Nightringer Existing Phone', is highlighted with a yellow border and shows a green checkmark status.

Status	Device	Assigned	Phone Number	Serial No.	Operation
✖	Cameron Device	Cameron Device	(831) 272-0654	N/A	Setup & Provision
✖	Cameron Nightringer	Cameron Nightri...	(831) 272-0641	N/A	Setup & Provision
✖	Cameron Snom	Cameron Snom	(831) 233-3994	N/A	Setup & Provision
✖	Christina Polycom VVX300	Interop Polycom...	(831) 975-2610	0004F289C3B8	Setup & Provision
✔	CyberData Nightringer Existing Phone	CyberData Night...	(831) 609-4948	N/A	Setup & Provision

Make a Test Call

Once the device has registered with RingCentral, use any RingCentral phone 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.