

Zoom CONFIGURATION GUIDE: All Products

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Revision Information

- 10/13/2026 - Initial Release

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1.0 Relevant Products

This section describes the products supported with this document.

Table 1-1: Setup Equipment

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
SIP PAGING 25V/70V+4 AMPLIFIER	011598	v23.0.0 or later
SIP PAGING SERVER	011146	v22.0.4 or later
SIP PAGING SERVER+	011600	v23.1.0 or later
SIP PAGING ADAPTER	011233	v22.0.5 or later
SIP OUTDOOR INTERCOM	011186	v23.0.0 or later
SIP LARGE BUTTON INTERCOM	011567	v22.0.3 or later
SIP OUTDOOR INTERCOM WITH KEYPAD	011214	v22.0.2 or later
SIP EMERGENCY INTERCOM	011209	v22.0.2 or later
SIP DUAL RELAY CONTROLLER	011484	v22.0.1 or later
SIP CALL/PANIC BUTTON	011049	v22.0.3 or later
SIP OUTDOOR CALL/PANIC BUTTON	011491	v22.0.03 or later
SIP RGB (MULTI-COLOR) STROBE	011376	v23.0.0 or later
RIP OUTDOOR RGB (MULTI-COLOR- STROBE	011479	v23.0.0 or later
VOIP SIP/MULTICAST CEILING MOUNT SPEAKER	011511	v22.0.4 or later
VOIP SIP/MULTICAST WALL MOUNT SPEAKER	011512	v22.0.4 or later
SIP SPEAKER WITH TALKBACK	011394	v22.0.2 or later
SIP IP66 INDOOR/OUTDOOR HORN	011457	v22.0.3 or later
SIP LOUDSPEAKER AMPLIFIER	011405	v22.0.1 or later
SIP PAGING AMPLIFIER	011324	v22.0.1 or later

2.0 Before You Start

This configuration guide documents the integration process of a CyberData device.

Network Advisories

Zoom uses a Fully Qualified Domain Name (FQDN) for the SIP server and Outbound Proxy addresses. The CyberData equipment needs to perform a DNS A query to resolve the IP address of Zoom'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 intercom to use:

- TCP 5060-5061, 5091 (SIP)
- UDP 10500 (RTP)

The device will need to traverse the public internet in order to operate with Zoom in the cloud. SIP ports 5060 and RTP port 10500 are the default values on all noted firmware levels.

Alternatively, SIP ports for the paging 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.

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

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

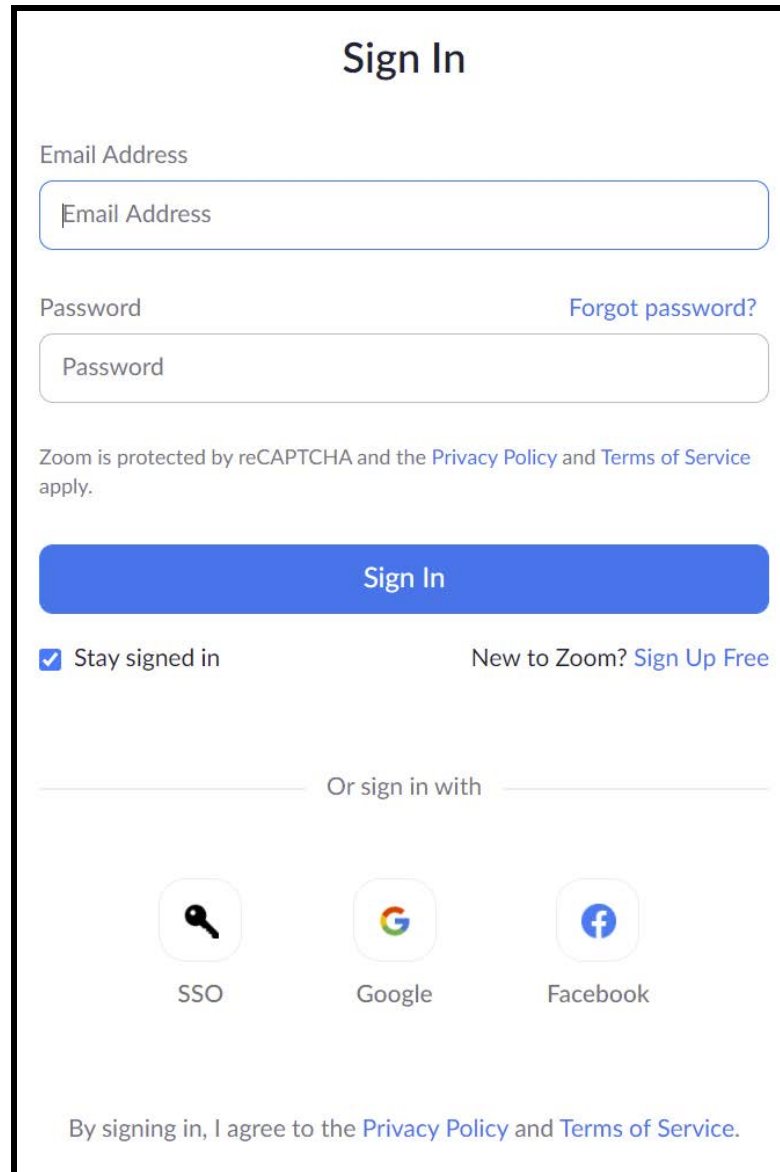
Note: DHCP addressing mode is enabled on default on all noted firmware levels.

3.0 Configuration Procedure: Intercom/Paging Device

This guide uses a SIP Paging Server+ for the device during configuration, the process is the same across the CyberData product line.

1. Log into Zoom.

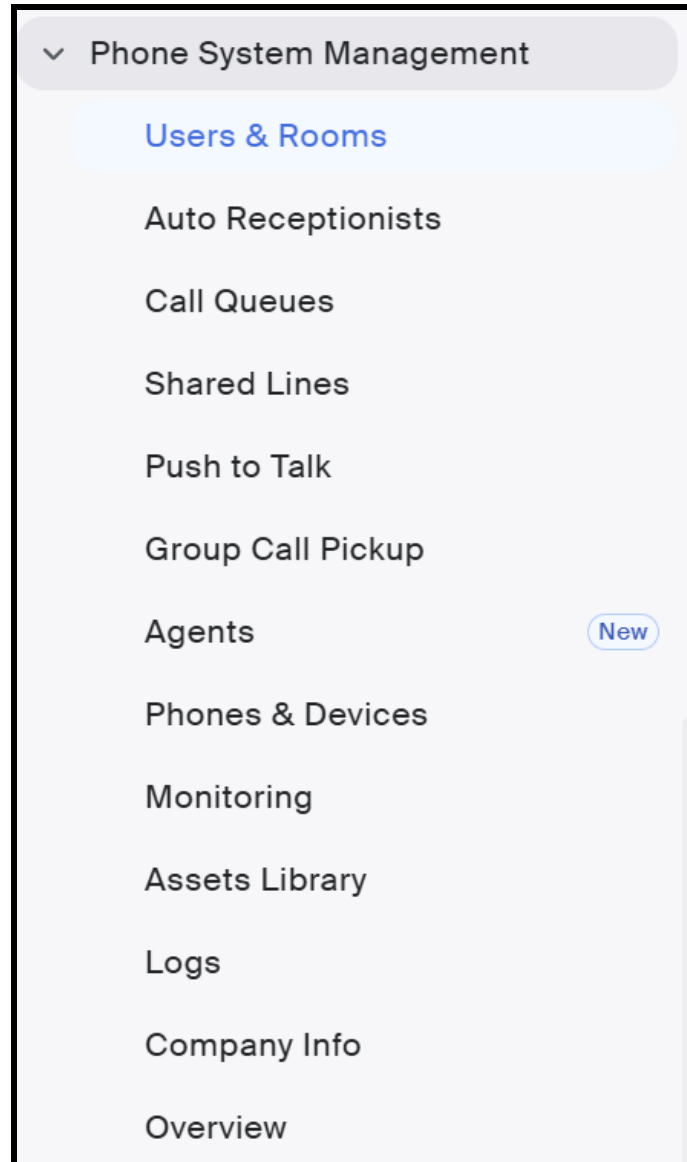
Figure 3-1: Log into Zoom



The image shows the Zoom Sign In page. At the top, it says "Sign In". Below that is a form with two input fields: "Email Address" and "Password". To the right of the Password field is a link that says "Forgot password?". Below the form is a blue button that says "Sign In". Under the button is a checkbox labeled "Stay signed in" which is checked, and a link that says "New to Zoom? Sign Up Free". Below this is a horizontal line with the text "Or sign in with" in the center. Underneath the line are three icons: a key icon labeled "SSO", the Google logo labeled "Google", and the Facebook logo labeled "Facebook". At the bottom of the form, it says "By signing in, I agree to the Privacy Policy and Terms of Service."

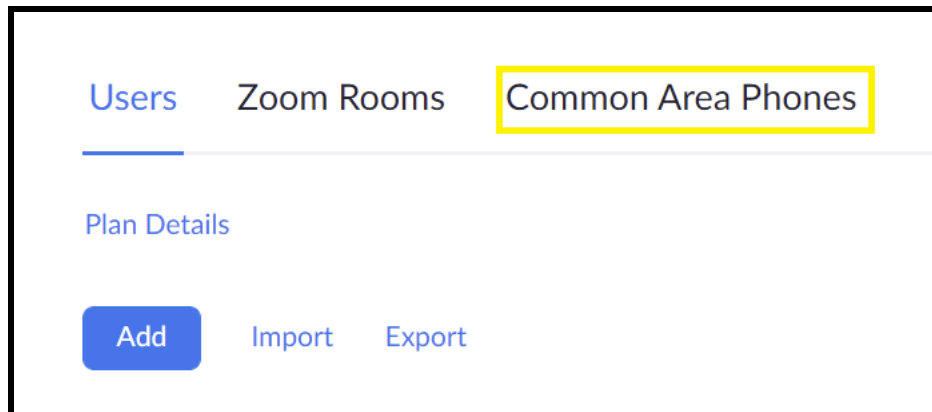
2. From the Profile page select the “Phone System Management” section and the ‘Users & Rooms’ subsection.

Figure 3-2: Profile Landing Page



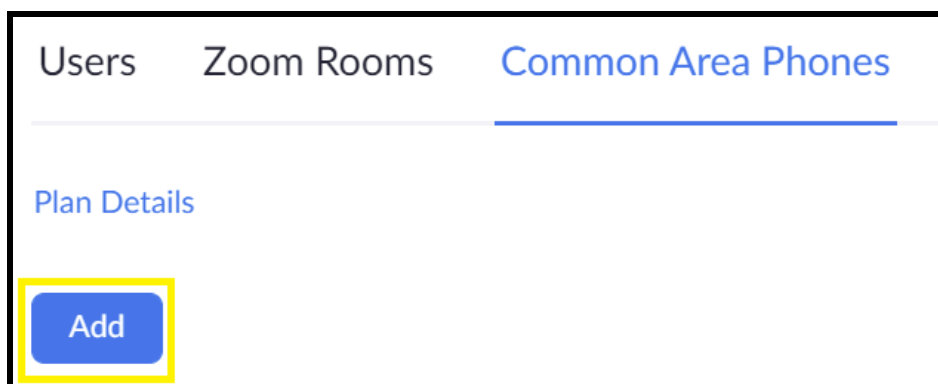
3. From “Users & Rooms” navigate to the Common Area Phones tab.

Figure 3-3: Users & Rooms



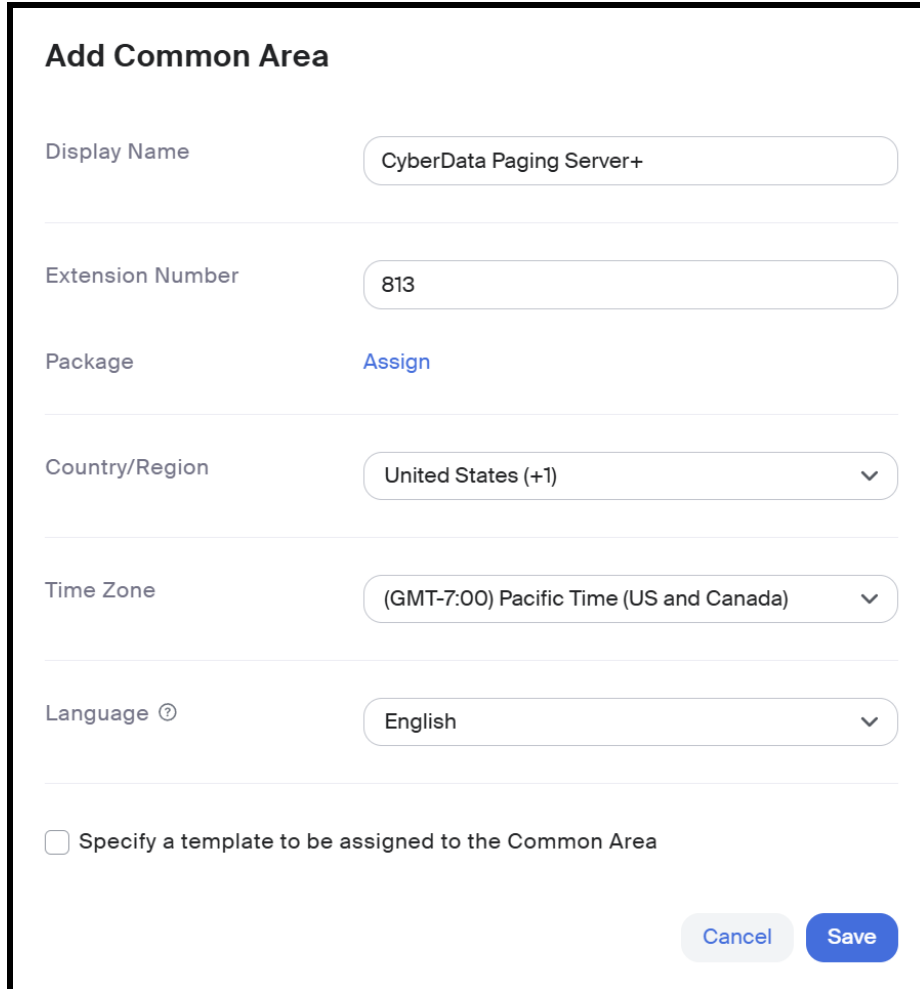
4. Press the Add button on the Common Area Phones Tab.

Figure 3-4: Add Common Area Phone



5. After clicking the Add button a Pop-up will appear that allows common area phone creation.

Figure 3-5: Add Common Area Phone Pop-up



Add Common Area

Display Name: CyberData Paging Server+

Extension Number: 813

Package: Assign

Country/Region: United States (+1) ▼

Time Zone: (GMT-7:00) Pacific Time (US and Canada) ▼

Language ⓘ: English ▼

☐ Specify a template to be assigned to the Common Area

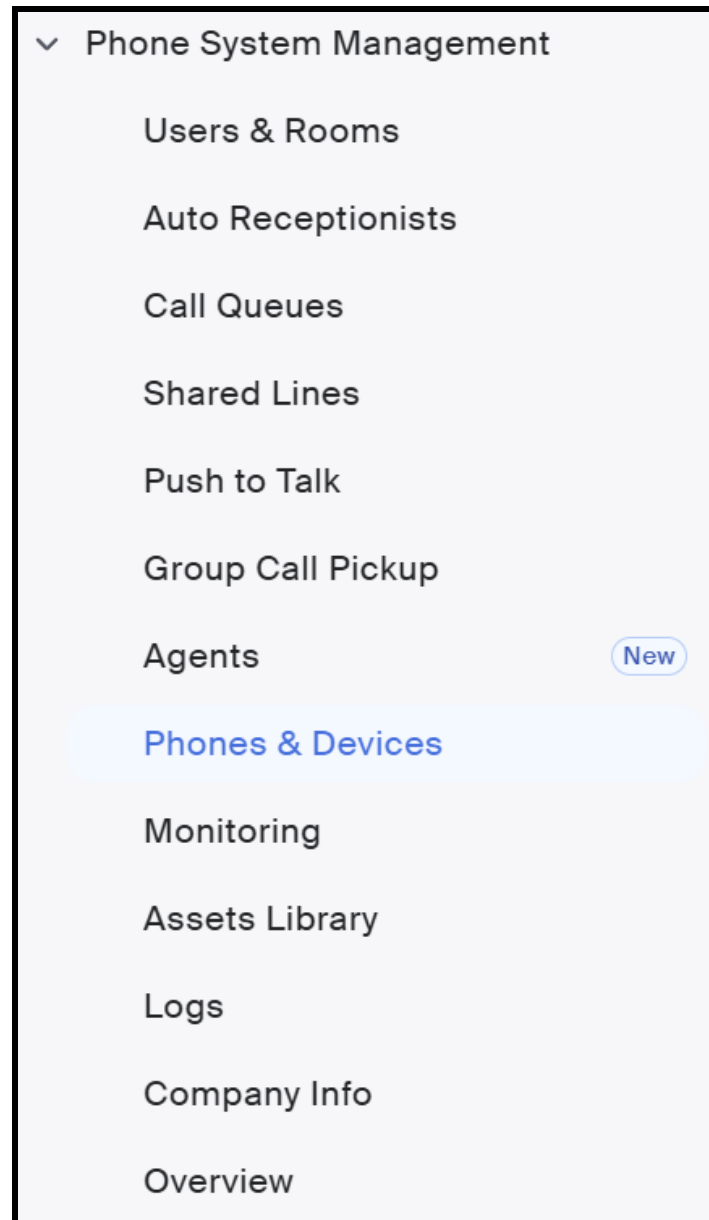
Cancel Save

6. Set the **Display Name** to the name of the intercom.
7. Adjust the **Extension Number** as necessary.
8. Select the desired **Package**.
9. Adjust the **Country/Region** as necessary
10. Adjust the Time Zone if required.
11. Press **Save**.

After creating the common area phone, a device will need to be created to add or associate with the common area phone.

12. From the side tool bar select **Phones & Devices**.

Figure 3-6: Phones & Devices



13. From the Phones & Devices page press the **Add** button to create a new phone.

Figure 3-7: Add Device

Add Device

Display Name

CyberData Paging Server+

Description (Optional)

SIP Paging Server+

MAC Address

00:20:F7:05:D4:8C

Device Type

CyberData

cyberdata-sip-based-device

i

This device type supports up to 2 assignees.
WARNING: Certain paging device has auto-answer capability, assigning it to any user that has existing device(s) is not advised. Suggest assigning to Common Area instead.

Assigned to

Common Area

CyberData Paging Server+ - Ext.

Add

Cancel

This field is required

Cancel

Save

14. Set the **Display Name**.

15. Set an optional **Description**.

16. Set the **MAC Address** to that of the device

Setting the MAC address should automatically select CyberData as the device type

17. Set the device to “cyberdata-sip-based-device”

18. Search for and find the Common Area Phone created in the previous step

19. Press **Save**.

20. The page will refresh, and the device will have been created. Press the **Actions** button and select **Provision**.

Figure 3-8: Device Created

Phones & Devices > Assigned

CyberData Paging Server+

Rename

SIP Paging Server+

Profile

Assigned to

CyberData Paging Server+

Ext. 813

x

Assign

Emergency Address

☒ Inherit emergency settings from assigned extension

☐ Choose a company address

IP Address

--

Device Type

CyberData cyberdata-sip-based-device

Firmware Version

--

MAC Address

00-20-f7-05-d4-8c

Provision Template

Unsupported ⓘ

Status

Offline

Actions ▾

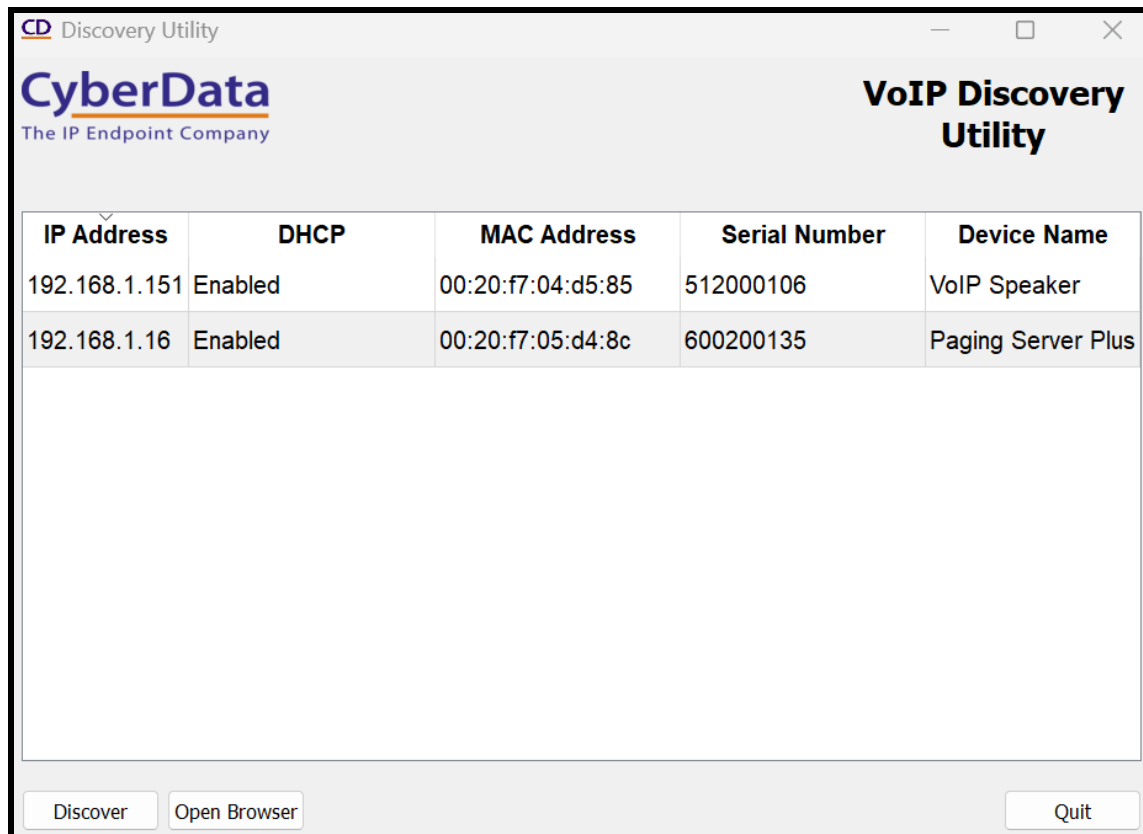
Remove

21. In the provisioning pop-up click the **Copy to Clipboard** button to copy the provisioning URL.

4.0 Configuration Procedure: Setting up the Paging Extension

1. Click **Open Browser** from the CyberData Discovery Utility or point your browser to the CyberData device's IP address to access the Home Page of the web interface.

Figure 4-1: CyberData Discovery Utility

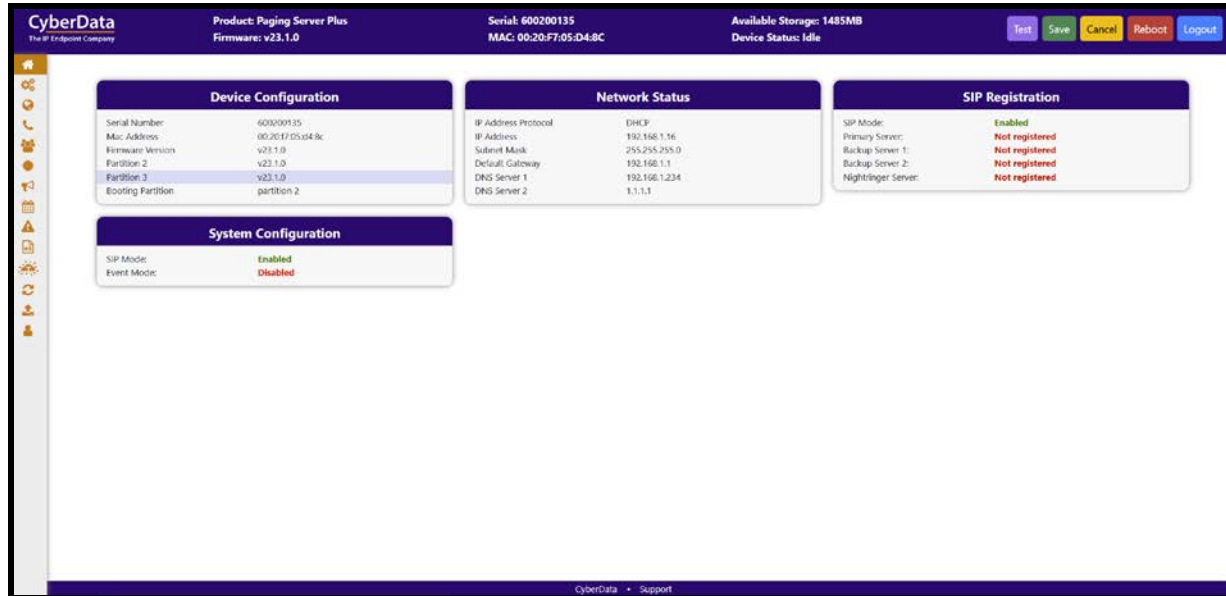


2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

Figure 4-2: Web Interface Login



3. From the Home tab navigate to the Autoprov Tab.

Figure 4-3: Autoprov Tab

The screenshot displays the 'Autoprov Tab' interface within the CyberData management console. The top header bar includes the CyberData logo, product information (Paging Server Plus, v23.1.0), device identifiers (Serial: 600200135, MAC: 00:20:F7:05:D4:8C), and storage status (1485MB). Action buttons for Test, Save, Cancel, Reboot, and Logout are present. The main content area is split into two panels. The 'Autoprov Settings' panel on the left contains configuration options for autoprovisioning, such as enabling/disabling the feature, setting the server URL, and configuring update intervals. The 'Autoprov Log' panel on the right shows a log of autoprovisioning events, including successful provisioning and error messages.

4. Paste the URL copied from the provisioning popup in the **Autoprovisioning Server**.
5. Check the box for **Verify Server Certificate**.
6. Save.
7. Reboot.

Once the unit reboots it will attempt to download the provisioning file from Zoom, which should succeed. This can be verified on the Home tab of the intercom and through the Zoom provisioning popup.

Figure 4-4: Home page - Registered

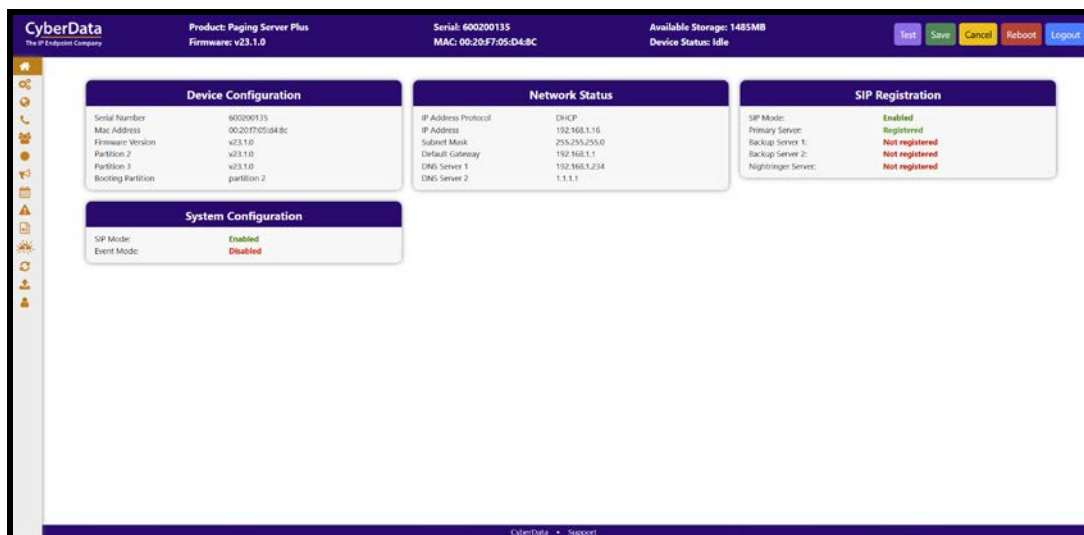
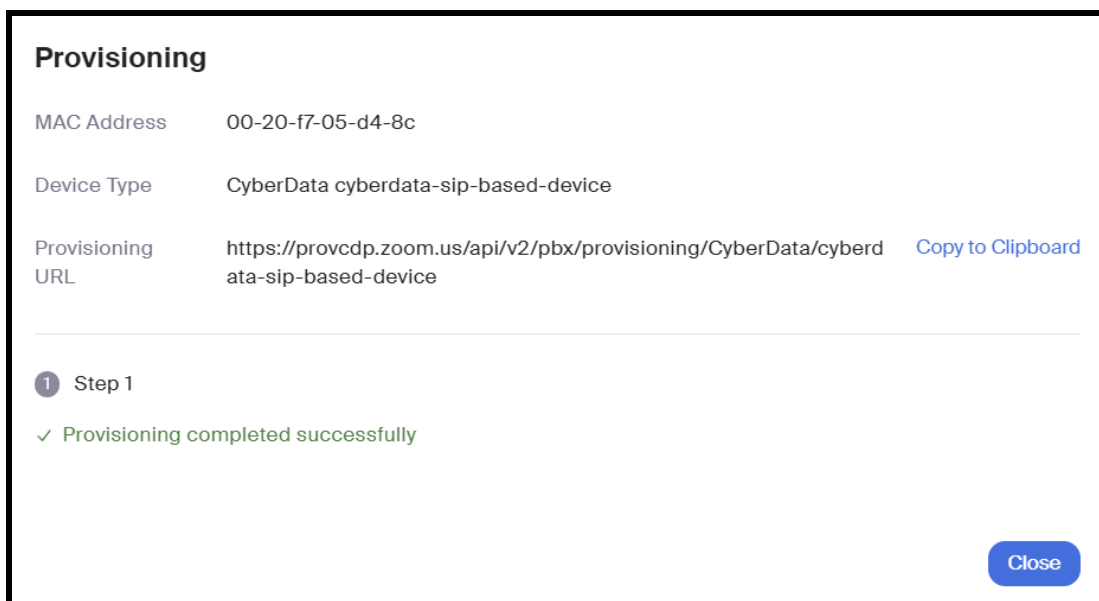


Figure 4-5: Zoom Provisioning Check



4.1 Adding Nightringer

CyberData products have a second extension called “Nightringer” that when called the device will ring. This makes the Nightringer extension perfect for use in ring groups. This is easy to add in a Zoom environment.

1. After logging into Zoom a new common area phone will need to be created that will correspond with the Nightringer Extension.
2. From Phone System Management select Users & Rooms and then Common Areas. Finally Press **Add** to create a new Common Area Phone.

Figure 4-6: Add Nightringer

Add Common Area

Display Name

Extension Number

Package Zoom Phone Basic (Migrated) ?
[Assign](#)

Country/Region

Time Zone

☐ Specify a template to be assigned to the Common Area

3. Once configured press **Save** to create the common area phone.
4. After creating the phone navigate to Phones & Devices and select the device where the Nightringer extension will be configured.
5. After selecting the device press **Assign** in the ‘Assigned to’ section.

6. Change the User selection to **Common Area** then find the newly created Nightringer Common Area Phone.
7. Press **Add** to add the second extension

Figure 4-7: Assigning Nightringer

CyberData Outdoor Intercom [Rename](#)

No description

[Profile](#)
[Policy](#)

Assigned to

CyberData Outdoor Intercom
Ext. 855
×

Common Area ▾
CyberData Nightringer - Ext. 856 (

After adding the user or the common area, this device will be resynced.

Add Cancel

IP Address	192.168.1.14
Device Type	CyberData cyberdata-sip-based-device
Firmware Version	--
MAC Address	00-20-f7-04-41-31
Provision Template	Unsupported ?

Note: After adding the Nightringer Extension Zoom should have the device Resync its config file and this will have the device reboot. It is possible that when the new extension is created it will be assigned to the Primary Extension. Confirm the Nightringer extension is assigned to the correct line key. Line Key 1 is for the Primary Extension and Line Key 2 is for the Nightringer Extension.

8. To reassign the extensions, select Keys & Positions, then press Manage Key.
9. Drag and drop the extensions to the correct Key positions. Key 1 for Primary Extension and Key 2 for Nightringer Extension.
10. Save to confirm the change.

Figure 4-8: Key Positions

Manage Key

- Modifying the Position will cause the device to resync.
- The number of keys you set is limited by the number of keys on the device. Keys that exceed the limit will not be effective.

Key	Key's Owner	Key Assignment	Alias (Optional)	Outbound Caller ID	
1	⋮ CyberData Outdoor Intercom	Ext. 855 CyberData Outdoor Intercom	Enter Alias	Main Company Number (831) 217-3337	↑ ↓
2	⋮ CyberData Nightringer	Ext. 856 CyberData Nightringer	Enter Alias	Main Company Number (831) 217-3337	↑ ↓
3	⋮				↑ ↓
4	⋮				↑ ↓
5	⋮				↑ ↓
6	⋮				↑ ↓
7	⋮				↑ ↓
8	⋮				↑ ↓
9	⋮				↑ ↓
10	⋮				↑ ↓

Page 1 of 30 < > Page Size 10 Total 300

Cancel Save

5.0 Using the CyberData Intercom in a Zoom system.

CyberData Intercoms are used for access control. Depending on the number of keys the intercom has there are different ways to use the intercom. A single button intercom can be configured to call a number when the call button is pressed. The Keypad variants can take advantage of the keypad and dial numbers to make a call. There are several different modes that can be used on Keypad intercoms.

5.1 Setting the Dialout Extension – Single button intercom

Once the intercom is registered with Zoom the “Dial out Extension” will need to be set for the intercom to call a number when the front Call Button has been pressed. This number can be either a direct extension, ring group/ call queue, or a direct phone number.

1. After Logging into the intercom go to the **SIP** Tab.
2. On the SIP Tab set the Dial out Extension to the address you want the intercom to call.
3. The Extension ID of the intercom is what should appear on the caller ID of the intercom.

Figure 5-1: Set the Dial out Extension

The screenshot displays the CyberData Intercom configuration web interface. At the top, a status bar shows 'Product: Intercom', 'Firmware: v23.0.1b12', 'Serial: 186201657', 'MAC: 00:20:F7:04:41:31', 'Available Storage: 1478MB', and 'Device Status: Idle'. Navigation buttons include 'Test', 'Save', 'Cancel', 'Reboot', and 'Logout'.

The interface is divided into three main configuration panels:

- SIP Settings:** Includes fields for SIP Operator (ENUM), SIP Registration (ENUM), Auto-Answer Incoming Calls (ON), Play Ringback Tone (OFF), Remote SIP Port (5060), Local SIP Port (5060), SIP Transport Protocol (TLS), TLS Version (1.2), Verify Server Certificate (ON), Outbound Proxy (sip100@zoom.us), Outbound Proxy Port (5091), Cisco SRST (OFF), Disable port Discovery (OFF), Keep Alive Timeout (10000 milliseconds), Terminate call after delay (0 seconds), Audio Codec (Auto Select), RFP Pac (over), Asymmetric RFP (OFF), Jitter Buffer (50), and RFP Encryption (SRTP).
- SIP Server Settings:** Configures Primary and Backup SIP Servers. The Primary SIP Server is 'Registered' with details: Primary SIP Server (5082551.zoom.us), Primary SIP User ID (6430308799118490920), Primary SIP Auth ID (960958652169), and Primary SIP Auth Password (masked). Registration Interval is 360 seconds. Backup servers are 'Not registered'.
- Nightranger Settings:** Configures Nightranger SIP Server. The status is 'Not registered'. Fields include Nightranger SIP Server (Host or IP address), Nightranger SIP User ID (User ID), Nightranger SIP Auth ID (Auth ID), Nightranger SIP Auth Password (Password), and Registration Interval (360 seconds).

A **Dial Out Settings** panel is also visible, showing: Dialout Extension (802), Extension ID (Front Door), Send Multicast Audio (ENABLED), Multicast Address (224.5.5.5), Multicast Port (5050), and Repeat Message (1).

5.2 Calling with a Keypad Intercom

The Keypad Intercom (Indoor or Outdoor) has multiple different ‘Dial Modes’ that can be used which will make the intercom operate in a slightly different manner. There are four different dial modes that can be used; Telephone Operation, Cell Phone Operation, Speed Dial Operation, and Security Operation. These different modes are selected on the Buttons page.

Figure 5-2: Dial Modes

The screenshot shows the CyberData configuration interface for a Keypad Intercom. The top header includes the CyberData logo, product information (Product: Keypad Intercom, Firmware: v22.0.2), serial and MAC addresses (Serial: 214200240, MAC: 00:20:F7:04:52:22), available storage (1334MB), and device status (Idle). Navigation buttons (Test, Save, Cancel, Reboot, Logout) are on the right.

The main content area is divided into three sections:

- Dial Settings:**
 - Keypad Mode: TELEPHONE (dropdown)
 - Play Button Tones: ON (dropdown)
 - Speed Dial Timeout: 2 seconds
- Security Mode Settings:**
 - Relay Activation Code: 9876123
 - Relay Deactivation Code: 9876456
 - Telephone Dialout: ON (dropdown)
 - Send Multicast Audio: Disabled (dropdown)
 - Multicast Address: 234.5.5.5
 - Multicast Port: 5050
 - Repeat Message: 1
- Keypad Mapping:** A table mapping buttons to extensions and extension IDs.

Button	Extension	Extension ID
Keypad 1	241	id241
Keypad 2	242	id242
Keypad 3	243	id243
Keypad 4	244	id244
Keypad 5	245	id245
Keypad 6	246	id246
Keypad 7	247	id247
Keypad 8	248	id248
Keypad 9	249	id249
Keypad 0	2411	id2411
Keypad *	2410	id2410
Keypad #	2412	id2412
Call Button	204	id204

- **Telephone Operation**
 - This mode operates like a telephone. Press the call button and then dial the number.
- **Cell Phone Operation**
 - This mode operates like a cell phone. Dial the number then press the call button.
- **Speed Dial Operation**
 - This allows each button (0-9 * # Call Button) to be for a specific speed dial number. The Speed Dial Timeout is how long the button must be pressed before the call will send.
- **Security Operation**
 - This mode restricts the calling options to only the call button. The keypad is then used for “Security Codes” for access control without making a call. Check the operations manual for more details on the Security Codes.

5.2.1 Setting up Speed Dial Operation

After setting the dial mode to **Speed Dial Operation**, the **Speed Dial settings** will be configurable. **Speed Dial Timeout** is how long the button will need to be pressed to make a call; if set to 0 the call will send immediately.

Figure 5-3: Speed Dial Settings

The screenshot displays the configuration interface for a CyberData Keypad Intercom. The top header bar includes the CyberData logo, product information (Product: Keypad Intercom, Firmware: v22.0.2), serial and MAC addresses (Serial: 214200240, MAC: 00:20:F7:04:52:22), available storage (1334MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are located on the right.

The main configuration area is divided into two panels:

- Dial Settings:**
 - Keypad Mode: SPEED DIAL (selected)
 - Play Button Tones: ON (selected)
 - Speed Dial Timeout: 2 seconds
- Security Mode Settings:**
 - Relay Activation Code: 9876123
 - Relay Deactivation Code: 9876456
 - Telephone Dialout: ON (selected)
 - Send Multicast Audio: Disabled (selected)
 - Multicast Address: 224.5.5.5
 - Multicast Port: 5050
 - Repeat Message: 1

On the right side, there is a **Keypad Mapping** table:

Button	Extension	Extension ID
Keypad 1	801	Entrance Intercom
Keypad 2	802	Entrance Intercom
Keypad 3	803	Entrance Intercom
Keypad 4	804	Entrance Intercom
Keypad 5	805	Entrance Intercom
Keypad 6	806	Entrance Intercom
Keypad 7	807	Entrance Intercom
Keypad 8		
Keypad 9		
Keypad 0		
Keypad *		
Keypad #		
Call Button	600	Entrance Intercom

5.2.2 Setting up Security Mode Operation

Security Mode Operation will make the call button function as the main way to make a call. The call button can call a direct extension, ring group/call queue, or a standard phone number. The keypad can then be used for security codes that are configured on the security tab.

Relay activation and Relay deactivation are codes that can be entered on the keypad to activate and deactivate the relay. If those fields are left blank, they will be disabled.

Figure 5-4: Security Mode Operation

The screenshot displays the CyberData configuration web interface for a Keypad Intercom. The top header bar includes the CyberData logo, product information (Keypad Intercom, v22.0.2), serial and MAC addresses, available storage (1334MB), and device status (Idle). Navigation icons are on the left, and action buttons (Test, Save, Cancel, Reboot, Logout) are on the right.

The main configuration area is divided into three sections:

- Dial Settings:**
 - Keypad Mode: SECURITY (dropdown)
 - Play Button Tones: ON (dropdown)
 - Speed Dial Timeout: 2 seconds
- Security Mode Settings:**
 - Relay Activation Code: 9876123
 - Relay Deactivation Code: 9876456
 - Telephone Dialout: ON (dropdown)
 - Send Multicast Audio: Disabled (dropdown)
 - Multicast Address: 224.5.5.5
 - Multicast Port: 5050
 - Repeat Message: 1
- Keypad Mapping:** A table mapping buttons to extensions and extension IDs.

Button	Extension	Extension ID
Keypad 1	801	Entrance Intercom
Keypad 2	802	Entrance Intercom
Keypad 3	803	Entrance Intercom
Keypad 4	804	Entrance Intercom
Keypad 5	805	Entrance Intercom
Keypad 6	806	Entrance Intercom
Keypad 7	807	Entrance Intercom
Keypad 8		
Keypad 9		
Keypad 0		
Keypad *		
Keypad #		
Call Button	600	Entrance Intercom

5.3 Activating the on-board relay

While in a call with the intercom DTMF codes can be entered on the phone to trigger the onboard relay of the intercom.

- Relay Pulse code
 - Activates the relay for the configured Relay Pulse Duration.
- Relay Pulse Duration
 - How long the relay will activate when the Pulse code is sent.
- Relay Activation Code
 - This code activates the relay.
- Relay Deactivation Code
 - This code deactivates the relay.

Figure 5-5: Relay Settings

The screenshot displays the configuration interface for a CyberData Keypad Intercom. The top header bar includes the CyberData logo, product information (Keypad Intercom, Firmware: v22.0.2), serial and MAC addresses, available storage (1334MB), and device status (Idle). Navigation buttons (Test, Save, Cancel, Reboot, Logout) are on the right. A sidebar on the left contains icons for various settings. The main content area is divided into three panels:

- Relay Settings:**
 - Relay Status: Locked
 - Control Relay with DTMF Code: ON
 - DTMF Pulse Code: 123
 - DTMF Pulse Code Duration: 2 seconds
 - DTMF Activation Code: 456
 - DTMF Deactivation Code: 654
 - DTMF Relay Activation Tone: OFF
 - Relay During Ring: OFF
 - Relay During Night Ring: OFF
 - Relay While Call Active: OFF
 - Relay On Button Press: OFF
 - Relay On Button Press Duration: 3 seconds
 - Relay on Local Audio: OFF
- Time Settings:**
 - NTP Server(s): 45.33.53.84, north-america.pool.ntp.org
 - NTP Timezone: America/Los_Angeles (-8)
 - Current Time: Mon, 12 Oct 2026 15:15:45
- Misc Settings:**
 - Device Name: Keypad Intercom
 - Beep on Init: OFF
 - Button LED Lit when Idle: ON
 - Button LED Brightness: 255
 - Keypad LED Lit when Idle: ON
 - Keypad LED Brightness: 255
 - Push to Talk (PTT): OFF
 - DTMF Push to Talk (PTT): OFF
 - Prevent Call Termination: OFF

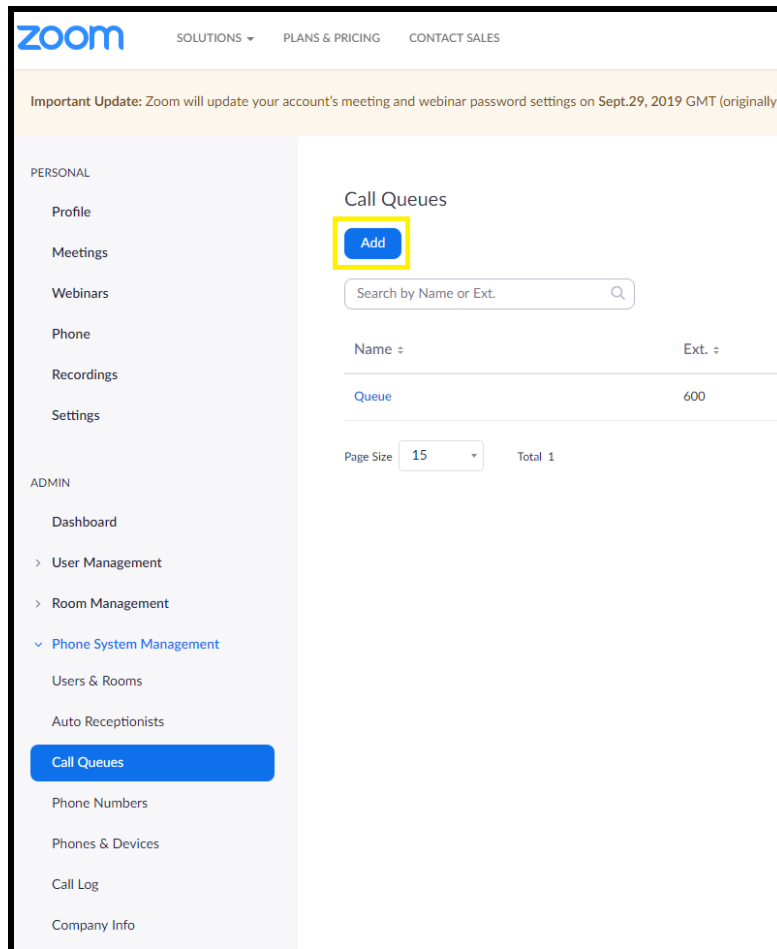
Note: Enable “Play Tone During DTMF Activation” if you want a tone to play when the onboard relay is active.

5.4 Creating a Call queue

CyberData recommends using the Nightringer extension as part of a call queue, allowing the speaker to also serve as an additional notification for incoming calls.

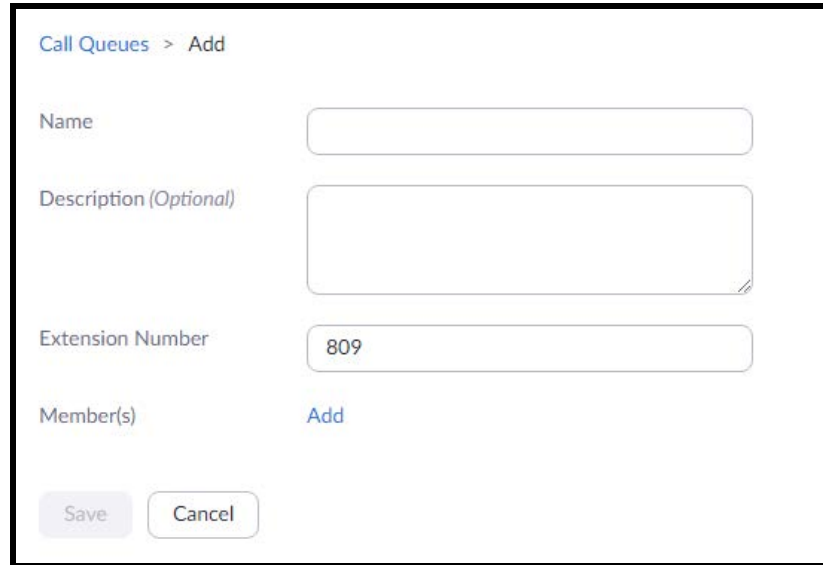
1. From the Phone System Management page select call queues and press the Add button to create a new queue.

Figure 5-6: Add call queue



2. After clicking 'Add' a pop-up will appear that allows naming and assigning a number to the call queue.

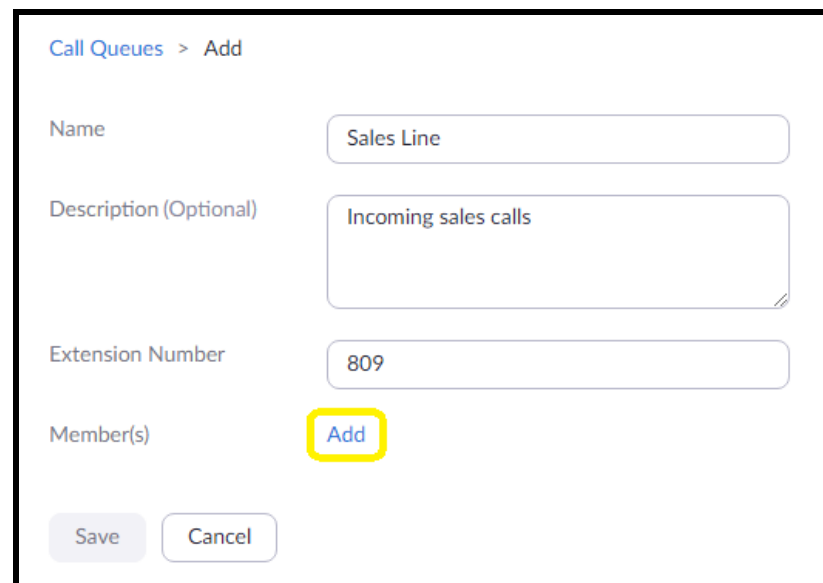
Figure 5-7: Name the queue



The screenshot shows a web form titled 'Call Queues > Add'. It contains four input fields: 'Name' (empty), 'Description (Optional)' (empty), 'Extension Number' (containing '809'), and 'Member(s)' (containing an 'Add' link). At the bottom are 'Save' and 'Cancel' buttons.

3. Name the queue, set a description and change the extension number if necessary.

Figure 5-8: Add users



The screenshot shows the same 'Call Queues > Add' form, but with example data: 'Name' is 'Sales Line', 'Description (Optional)' is 'Incoming sales calls', and 'Extension Number' is '809'. The 'Member(s)' field contains the 'Add' link, which is highlighted with a yellow rectangle. 'Save' and 'Cancel' buttons are at the bottom.

4. Press the Add button to add Users and Common Area Phones to the queue.

Figure 5-9: Add Users

Choose Member(s)

Users Common Area Phones

Search by Name or Ext.

	Name	Email	Ext.	User Status
☒	Cameron		803	Active
☒	Mauricio		802	Active
☒	Paul		800	Active

Page Size 10 Total 3

Selected

Users (3)

- Cameron X
- Mauricio X
- Paul X

Cancel OK

5. Select the users who will participate in the call group, then select "Common Area Phones."
6. In the "Common Area Phones" section, select the phones you wish to add to the queue.

Figure 5-10: Add Common Area Phones

Choose Member(s)

Users Common Area Phones

Search by Display Name or Ext.

☒ Display Name	Ext.
☐ Call Button	806
☒ CyberData SIP Speaker	808
☐ Indoor Intercom	500
☐ Indoor Keypad Intercom	505
☒ IP66 Horn	804
☒ Office Ringer	506
☐ SIP Strobe	805
☐ Video Keypad	807

Page Size Total 8

Selected

Users (3)

- Cameron ×
- Mauricio ×
- Paul ×

Common Area Phones (3)

- CyberData SIP Sp... ×
- IP66 Horn ×
- Office Ringer ×

Cancel **OK**

7. Click “OK” to confirm your selections.
8. Finally, press ‘Save’ to complete the queue.

Figure 5-11: Call queue complete

Call Queues > Add

Name

Description (Optional)

Extension Number

Member(s) Selected 6 Member(s) [Add](#)

5.5 Setting the Blink Scenes

The strobe can illuminate differently depending on what extension is called and what state the call is in. Both color and scene are configurable for each of the different possible options.

Blink Scene types:

- **ADA**
 - Fast blink in White to comply with ADA standards
- **Slow Fade**
 - Full brightness that slowly fades in intensity
- **Fast Fade**
 - Full brightness that fades quickly in intensity
- **Slow Blink**
 - Full brightness that slowly blinks
- **Fast Blink**
 - Full brightness that blinks quickly
- **Off**

Strobe Settings

- **SIP Ring Strobe Settings**
 - How the strobe will blink when the paging extension is called.
- **SIP Call Strobe Settings**
 - How the strobe will blink when the strobe makes an outbound call.
- **MWI Strobe Settings**
 - How the strobe will blink when a voice mail is left for the extension of the strobe.
- **Nightringer Strobe Settings**
 - How the strobe will blink when the Nightringer extension rings.

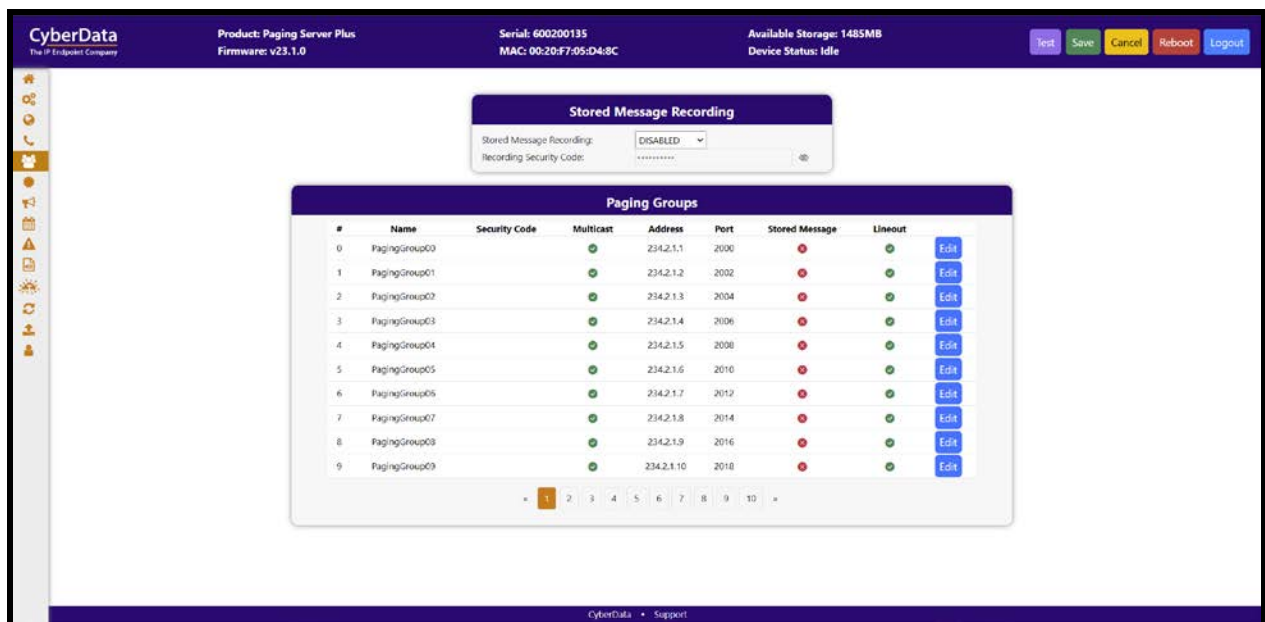
5.6 Multicast Paging

The CyberData SIP Paging Server is a “SIP to Multicast out” device that is very useful for paging. Multicast allows for a nearly unlimited number of devices to receive a page if they are on the same local network. This makes the paging server a powerful product in any paging solution.

Complete this process after registering the paging server with Zoom. This setup will require making a call to the paging server to send multicast, so registration is necessary.

1. Navigate to the PGroups tab of the SIP Paging Server web interface.
2. Press the **Edit** button on the page group that will be changed.

Figure 5-12: Edit PGroup



3. In the configure PGroup Popup change all necessary fields.
 - a. The **Address** field is the multicast IP Address that will be used.
 - b. The **Port** field is the port used in conjunction with the Multicast IP Address.
 - c. The **Name** field has no impact on operation and is solely used for identification.
 - d. The **Security Code** field is an optional field that will require a security code before paging to that group.
 - e. **TTL** or Time To Live is the number of ‘hops’ the traffic can make before it is delivered to the endpoints, most users do not change this field.
 - f. The **Line Out** check box allows the page to play to both Multicast and the paging servers analog outputs.
 - g. The **Play Stored Message** check box changes the group from a ‘Live Page’ group to a stored message playback group, which is very useful for playing pre-recorded audio files.

- i. IF Play Stored Message is enabled, make sure to select the desired audio file.
 - ii. IF Play Stored Message is enabled, set the number of times to play.
 - h. Each PGroup can send Polycom encoded multicast with the “**Send Polycom Page**” option.
 - i. Set the appropriate **Polycom Transmit Channel**.
 - i. The SIP Paging Server+ has the option to send **Analog DTMF**.
4. Save changes after making all necessary adjustments.

Figure 5-13: Configure PGroup Pop Up.

Configure PGROUP

PGROUP	0			
Name	PagingGroup00			
Security Code	0-9, *, #			
Multicast	☒			
Address	234.2.1.1			
Port	2000			
TTL	255			
Send Polycom Page	☐			
Polycom Transmit Channel	1			
Play Stored Message	☐			
Audio File	Choose a MSG v			
Times to Play	1			
Line-out	☒			
Send Analog DTMF	☐			
Analog DTMF	0-9, *, #			
Save Cancel				

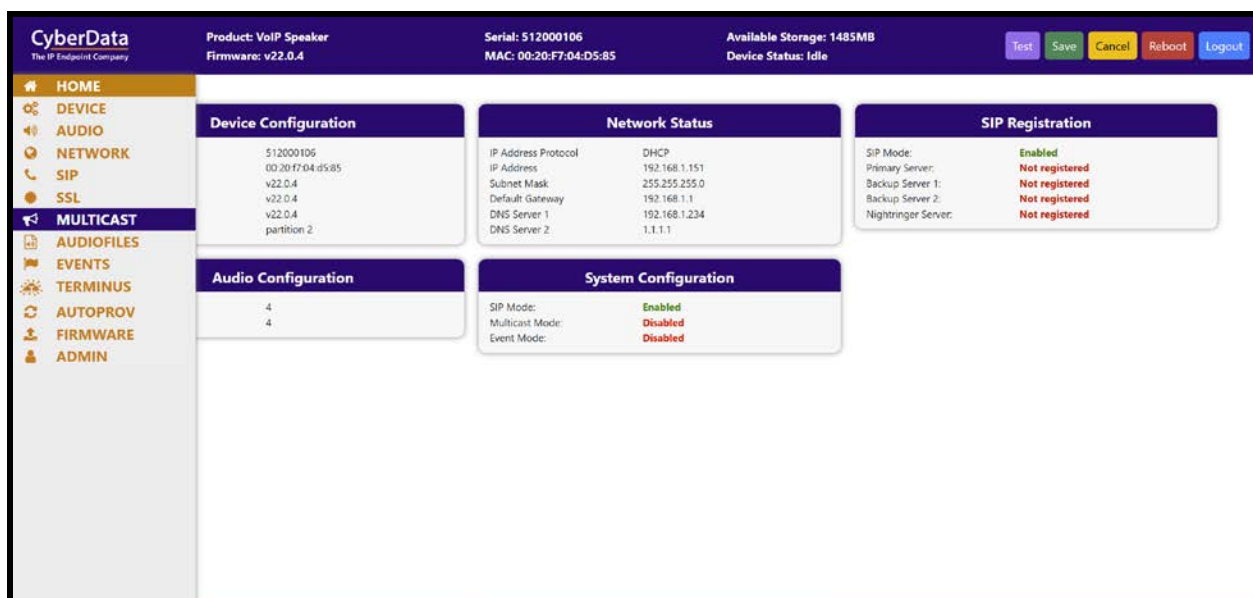
5. Repeat this process for all necessary groups.

5-7 Setting up Multicast Receive on other CyberData Products

After configuring PGroups on the paging server, the receiving devices need to be configured to receive that multicast. The process is shared across the CyberData product lines, but for the purposes of this guide a SIP Speaker's configuration process will be shown.

1. Log into CyberData product that will receive the Multicast from the SIP Paging Server.
2. Navigate to the Multicast Tab.

Figure 5-14: Speaker Home tab



3. Check the box to Enable Multicast and pick a priority for the Multicast group.

Note: The Multicast feature uses a Priority system to rank groups in order of importance. Group 9 is the highest priority and 0 is the lowest priority. SIP Calls made to the speakers are treated as Priority 4.5, so they will play over Multicast groups 0-4 and will be superseded by Multicast groups 5-9.

Note: Multicast priority 9 is treated as 'Emergency' and will always play at max volume.

4. Set the Multicast Address and Port to match the PGroup on the Paging Server.
5. If desired check Buffered, Beep, or Relay depending on the requirements.
6. Save and Reboot for the changes to take effect.

Figure 5-15: Multicast Tab

Multicast Settings

Receive Multicast Audio: **ENABLED** ▼
 Polycom Default Channel: **1** ▼
 Polycom Priority Channel: **24** ▼
 Polycom Emergency Channel: **25** ▼

Priority	Address	Port	Name	Buffer	Beep
0	239.168.3.1	2000	Background Music	DISABLED ▼	DISABLED ▼
1	239.168.3.2	3000	MG1	DISABLED ▼	DISABLED ▼
2	239.168.3.3	4000	MG2	DISABLED ▼	DISABLED ▼
3	239.168.3.4	5000	MG3	DISABLED ▼	DISABLED ▼
4	239.168.3.5	6000	MG4	DISABLED ▼	DISABLED ▼
5	239.168.3.6	7000	MG5	DISABLED ▼	DISABLED ▼
6	239.168.3.7	8000	MG6	DISABLED ▼	DISABLED ▼
7	239.168.3.8	9000	MG7	DISABLED ▼	DISABLED ▼
8	234.2.1.1	2000	All Page	ENABLED ▼	ENABLED ▼
9	239.168.3.10	11000	Emergency	DISABLED ▼	DISABLED ▼

*SIP calls: Priority 4-5
 Port range: 2000-45515
 Priority: 9 is the highest, 0 is the lowest
 Audio Streams: Higher priority supersedes lower ones
 Priority 9: Plays at maximum volume*

The **Buffer** setting will have the speaker record the Multicast page and play it when it has completed. This will prevent any feedback from the speaker if the page is being made in an area with a speaker.

The **Beep** setting will have the speaker play a beep tone when a multicast is received. This beep plays at the start of the multicast, so it is possible to have overlap with the beep tone and the multicast stream.

6.0 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

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