



Zoom Configuration Guide: SIP IP66 Outdoor Horn

Document Part # 931709D

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Revision Information

- 9-27-19 Initial Release
- 1-31-20 Updated Device Type creation.
- 3-11-21 Updated for Zoom phone security update.
- 9-21-21 Updated for new provisioning process.



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1.0 Setup Diagram







2.0 Test Setup Equipment

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

Table 2-1: Setup Equipment

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
CYBERDATA SIP IP66 OUTDOOR HORN	011457	12.2.0
YEALINK	T58A	58.83.3.6
LINKSYS SWITCH	SRW208MP	



3.0 Before You Start

This configuration guide documents the integration process of a CyberData SIP IP66 Outdoor Horn.

Network Advisories

Zoom uses a Fully Qualified Domain Name (FQDN) for the SIP server and Outbound Proxy addresses. The CyberData SIP IP66 Outdoor Horn 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 horn will need to traverse the public internet in order to operate with Zoom in the cloud.

The horn's paging 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 5091, the port used by Zoom'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 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.

Product Documentation and Utilities

Before you start, download the Operation and Quick Start guides from the intercom's product webpage:

SIP IP66 Outdoor Horn (011457) https://www.cyberdata.net/collections/sip/products/011457



4.0 Configuration Procedure: Intercom/Paging Device

There are several different extension types that can be used on the Zoom platform. This guide provides instructions to register the CyberData SIP IP66 Outdoor Horn as an Intercom/Paging Device. See Zoom documentation for more details.

As of 9/26/2021 Zoom has released an update that changes how CyberData products register with Zoom as Zoom has moved to an auto provisioning process. This changes the "CyberData" brand of products for Common Area Phones. Products like the SIP Speaker will continue to be manually provisioned, which is a very simple process. Contact your Zoom account manager and request they enable "Other/Generic" common area phone type. This will allow manual configuration of the CyberData device. Please follow the steps below to configure the device.

If you run into issues please contact our support department.

1. Log into Zoom.

https://zoom.us/signin

Figure 4-1: Log into Zoom



2. From the Profile page select the "Phone System Management" section and the 'Users & Rooms' subsection.

AD	MIN			
	Dashboard			
>	User Management			
>	Room Management			
~	Phone System Management			
	Users & Rooms			
	Auto Receptionists			
	Call Queues			
	Shared Lines			
	Phone Numbers			
	Phones & Devices			
	Monitoring			
	Logs			
	Company Info			
>	Account Management			
>	Advanced			

Figure 4-2: Profile Landing Page



3. From the "Users & Rooms" page navigate to the common area phones tab.

Note: The MAC address of the IP66 Horn will be required to create the phone.

Figure 4-4:	Common Area Phones
e	

Users	Zoom R	ooms	Common Area Phones	
Plan Detai	ls			
Add	Import	Export		

4. From the Common Area Phones press the 'Add' Button to create a new phone to be used by the device.

Figure 4-5: Add Common Area Phone

Users	Zoom Rooms	Common Area Phones
Plan Detai	ils	
Add		

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



Figure 4-5: Phone Pop-up

Add Common Area	Phone
Display Name	
Description (Optional)	
Extension Number	846
Package	Zoom Phone Basic (Migrated) ③ Assign
Country	United States (+1)
Time Zone	(GMT-7:00) Pacific Time (US and Canada) ~
MAC Address	
Device Type	Select Brand ~
	Select Model ~
	Cancel Save

- 6. Set the **Display Name** to the location of the horn.
- 7. Set the description as necessary
- 8. Adjust the Extension number of the phone as necessary.
- 9. Set the MAC Address of the device.
- **10.** Set the Device Type to **Other**.

Note: Adding the MAC Address will switch the device type to "Algo/CyberData" make sure the device type is set to "Other".



Figure 4-6: Phone Pop-up – Filled

Add Common Area	Phone			
Display Name	CyberData SIP IP66 Horn			
Description (Optional)	Warehouse			
Extension Number	846			
Package	Zoom Phone Basic (Migrated) (2) Assign			
Country	United States (+1)	~)	
Time Zone	(GMT-7:00) Pacific Time (US and Canada)	~)	
MAC Address	00:20:f7:03:cc:f2			
Device Type	Other v			
	C	Cancel	Save	

- 11. Click the **Save** button to create the Phone.
- **12.** Once saved the browser will redirect to the newly created extension's page
- **13.** Click on the Provision button at the bottom of the device's page.

Figure 4-7: Provision





Figure 4-8: Provisioning Pop-up

Provisionin	g
MAC Address	00-20-f7-03-cc-f2
Device Type	Other
You will need to e to your manufact	enable TLS1.2 for SIP registration and enable SRTP for secure calling on your IP phone. Please refer urer's instructions for these processes.
You'll need following Supported Devices to	information for manual provisioning. For Algo/CyberData Paging/Intercom devices, see <u>Zoom Phone</u> o view the configuration guide.
SIP Account 1:	A
1. SIP Domain: 50	0882551.zoom.us
2. Outbound Prox	xy: us01sip0h.ny.zoom.us:5091
3. User Name: 98	638997283928416257
4. Authorization I	D: 204342171576
5. Password:	
Please download Dig they are not in the tr	giCert Global Root CA, DigiCert Global Root G2, DigiCert Global Root G3 and import to your IP phone if rust list of the device.
Note: Please note provisioned in thi depending on you	e that Zoom support team will not be able to troubleshoot or configure IP phones that are is manner. Some Zoom Phone features may not work on manually provisioned phones. It may vary ur desk phone model.
	Close

- **14.** A popup will appear with manual provisioning information to setup the CyberData Intercom. Keep this popup open.
- **15.** Make sure to download all the certificates which will be needed for device configuration.



5.0 Configuration Procedure: Setting up the Paging Extension

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

CyberData Setting	Zoom Provisioning Pop-up
Primary SIP Server	SIP Domain
Outbound Proxy	Outbound Proxy
Outbound Proxy Port	
Primary SIP User ID	User Name
Primary SIP Auth ID	Authorization ID
Primary SIP Auth Password	Password

Table 5-1:	Setting	Name	correlation

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.

CD Discovery Ut	tility		_		
Cyber[The IP Endpoint	Data Company	VoIP Discover Utility			
IP Address	DHCP	MAC Address	Serial Number	Device Name	
192.168.1.13	Enabled	00:20:f7:03:cc:f2	324000844	Outdoor Horn	
Discover	Open Browser			Quit	

Figure 5-1: <u>CyberData Discovery Utility</u>

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

<u>Username: admin</u> <u>Password: admin</u> CyberData Corporation 3 Justin Court, Monterey, CA 93940 <u>www.cyberdata.net</u> P 831.373.2601 | F 831.373.4193



Figure 5-2: <u>Web Interface Login</u>

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	(Cybe	erD	ata	Out	doo	r Ho	rn	
Current Sta	atus		Ad	min Settin	gs		Import Se	ettings	
Serial Number: Mac Address: Firmware Version:	324000844 00:20:f7:03:cd v12:2:0	o:f2	User Pass Conf	name: a word: irm Password:	dmin		Choose File	lo file chosen	
IP Addressing: IP Address: Subnet Mask: Default Gateway: DNS Server 1: DNS Server 2:	DHCP 192.168.1.13 255.255.255.2 192.168.1.1 192.168.1.1	0	Sa	ve Reboot	Toggle Help		Export So	ettings	
SIP Mode: Multicast Mode: Event Reporting: Nightringer:	Enabled Disabled Disabled Disabled								
Primary SIP Serve Backup Server 1: Backup Server 2: Nightringer Server	r: Not registered Not registered Not registered Not registered	nd 1 1							

3. From the Home tab press the 'Device' Tab.



Figure 5-3: Device Tab

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	(Cybe	erD	ata (Out	dooi	r Ho	rn	
Volume S SIP Volume: Multicast Volum Ring Volume: Volume Boost	Settings (0 ne: 4 4 No Volume Bo	-9)			DTM Require Security Enable	F Settings Security Code: / Code: Stored Message Pla	yback J		
Clock Se Set Time with N NTP Server: Posix Timezonu Periodically syn Time update pe Current Time:	ttings NTP server on boo e String (see man nc time with serve eriod (in hours):	ot: north-america ual): PST8PDT,M3 er: 1 1 2:28:47	a.pool.ntp.org ; 2.0/2:00:00,N	111.1.0,	Powe 802.3AT Force 8 Auxiliar Misc	er Settings Mode: D2.3AT Mode (NOT r y Power Supply: Settings	N recommended): 	ot detected. Disable	əd
					Device I Beep or Beep or Disable	Vame: i Init: i Page: HTTPS (NOT recom	Outdoo	r Horn	
Test Audio Save Reb	oot Toggle Hel	lp							

- 4. Check the box for "Set Time with NTP Server on Boot".
- 5. Change the NTP server if necessary.
- 6. Set the **Posix Timezone String** to the local area.

Note: See the operations manual for other time zone strings.

- 7. Check the box for "Periodically sync time with server".
- 8. Set the "Time update period (in hours)" to 1.
- 9. <u>Save.</u>
- **10.** Go to the SIP Tab.



Figure 5-4: SIP Tab

SIP Settings			Nightringer Settings	
Enable SIP operation:	2		Enable Nightringer:	0
SIP Transport Protocol:	TLS 🛩 NTP enabled		SIP Server:	10.0.0.253
TLS Version:	1.2 only (recommended)	~	Remote SIP Port:	5060
Verify Server Certificate:			Local SIP Port:	5061
Register with a SIP Server:			Outbound Proxy:	
Use Cisco SRS1:		1	Outbound Proxy Port:	0
Primary SIP Server:	50882551.zoom.us		User ID:	241
Primary SIP User ID:	98638997283928416257		Authenticate ID:	241
Primary SIP Auth ID:	204342171576		Authenticate D.	
Primary SIP Auth Password:			Representation Interval (in accorde)	200
And the Aller of the			Re-registration interval (in seconds):	300
Backup SIP Server 1:				
Backup SIP User ID 1:			RTP Settings	
Backup SIP Auth ID 1:			BTB Bott (even): 10500	
Backup SIP Auth Password 1:			RTP Port (even). 10500	
	2	1	SPTR: 50	
Backup SIP Server 2:			Enabled V	
Backup SIP User ID 2:				
Backup SIP Auth ID 2:			Call Disconnection	
Backup SIP Auth Password 2:			Terminate Call after delay:	
			leminate can alter delay.	
Remote SIP Port:	5060	L 94		
Local SIP Port:	5060		Codec Selection	
Outbound Proxy:	us01sip0h.ny.zoom.us		Force Selected Codec:	
Outbound Proxy Port:	5091		Codec: PCMU (G.711	. u-law) 🗸
Service and a contraction of				inerriterielm and
Disable rport Discovery:				
Buffer SIP Calls:				
Re-registration Interval (in seconds)	. 360			
Unregister on Boot:				
Keep Alive Period:	10000			

- **11.** Set the 'SIP Transport Protocol' to **TLS**.
- 12. Keep TLS version set to "1.2 Only (Recommended)".
- 13. Check the box for "Verify Server Certificate".
- 14. Set the **Primary SIP Server** to the SIP Domain from the configuration Popup.
- 15. Set the **Primary SIP User ID** to the Username from the configuration Popup.
- 16. Set the **Primary SIP Auth ID** to the Authorization ID from the configuration Popup.
- **17.** Set the **Primary SIP Auth Password** to the password provided in the configuration Popup.



18. Set the **Outbound proxy** and **Outbound Proxy port** to the address provided in the configuration Popup.

Note: Make sure to separate the port from the outbound proxy information provided by zoom.

- **19.** Set SRTP to **Enabled**.
- 20. Check the box for "Force Selected Codec".
- 21. Save.
- 22. Go to the 'SSL' Tab.

Figure 5-5: SSL Tab

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
		2vbc		oto (~ +	door		*10	
		JUE	er D	ala	Jui	uoor	по	m	
Server C/	As		Cli	ent Certific	ate		Tes	t SSL Conn	ection
Choose Files	No file chosen ificate		com val val	monName = CyberDa idFrom = Jul 10 1 idTo = Jul 7 17:	ta SIP Device 7:56:03 2018 (56:03 2028 GM1	SMT	Server: Port:	us01sip0h.ny.zoom. 5091 Test TLS connection	us
Apply/Reboot	Toggle Help		Clie	nt CA					

23. Press the 'Choose Files' button.



🦁 Open						X
$\leftarrow \rightarrow \cdot \uparrow$	« Do	cuments > TLS-Certificates > Zoo	vm 🗸	U	✓ Search Zoo	om
Organize 🔹 Ne	w folde	er				≣ • ा ?
📌 Quick access	^	Name		Date mo	dified	Туре
Desktop	*	DigiCertGlobalRootCA.crt.pe	m	2/9/2021	1:12 PM	PEM File
		DigiCertGlobalRootG2.crt.pe	m	2/9/2021	1:12 PM	PEM File
		DigiCertGlobalRootG3.crt.pe	m	2/9/2021	1:12 PM	PEM File
Documents	7	sbc_ca.pem		2/9/2021	1:12 PM	PEM File
Tickets	*					
	×					
FIP-Koot	*					
length of the contract of the						
Documents						
🍤 This PC						
🧊 3D Objects						
📃 Desktop						
Documents						
🖊 Downloads						
b Music						
Pictures	~	<				>
	File nar	me: DigiCertGlobalRootCA.crt.pem		~	All Files (*.*)	~
					Open	Cancel

Figure 5-6: Choose file Pop-up

24. Select the certificate file and press the Open button.

25. Press the "Import CA Certificate" button to load the cert.



Figure 5-7: Import CA Certificate

Server CAs							
Choose Files Digio	CertGlo…tCA.crt.pem						
Import CA Certificate							
Restore Defaults	Remove All						
Toggle Help							

- 26. Repeat this process for all certificates downloaded during the extension creation process.
- **27.** Once the certificates are loaded a reboot will be required to make the changes take effect Use the "Apply/Reboot Button.
- **28.** Click Reboot in the Popup.

Figure 5-8: <u>Apply/Reboot Popup</u>

Reboot Device	×
The device must be rebooted before certificate settings can be app	olied. Reboot now?
C	ancel



Once rebooted, "Registered" will appear in green in the "Status" section of the Home page.

Figure 5-10: <u>Home page – Registered</u>

Home	Device M	Network SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	C	yberl	Data	Out	door	Но	rn	
Current Sta	atus		Admin Settin	gs		Import Se	ttings	
Serial Number: Mac Address: Firmware Version:	324000844 00:20:f7:03:cc:f2 v12.2.0		Username: ad Password: Confirm Password:	fmin		Choose File N	to file chosen	
IP Addressing: IP Address: Subnet Mask:	DHCP 192.168.1.13 255.255.255.0		Save Reboot T	oggle Help		Export Se	ettings	
DNS Server 1: DNS Server 2:	192.168.1.1					Export Config		
SIP Mode: Multicast Mode: Event Reporting: Nightringer:	Enabled Disabled Disabled Disabled							
Primary SIP Server Backup Server 1: Backup Server 2: Nightringer Server	r: Registered Not registered Not registered : Not registered							



6.0 Configuration Procedure: Setting up the Nightringer extension

Table 6-1:	Setting	Name	correlation

CyberData Setting	Zoom Provisioning Pop-up
SIP Server	SIP Domain
Outbound Proxy	Outbound Proxy
Outbound Proxy Port	
User ID	User Name
Authenticate ID	Authorization ID
Authenticate Password	Password

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.

CD Discovery U	tility		_	
CyberDataVoIP DisThe IP Endpoint CompanyUtil			Discovery tility	
IP Address	DHCP	MAC Address	Serial Number	Device Name
192.168.1.13	Enabled	00:20:f7:03:cc:f2	324000844	Outdoor Horn
Discover	Open Browser			Quit

Figure 6-1: CyberData Discovery Utility

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

Username: admin Password: admin



Figure 6-2: Web Interface Login

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	C	Cybe	erD	ata	Out	doo	r Ho	rn	
Current Sta Serial Number: Mac Address: Firmware Version: IP Addressing: IP Address: Subnet Mask; Default Gateway: DNS Server 1: DNS Server 2: SIP Mode: Multicast Mode:	atus 324000844 00:20:17:03:cc v12:2:0 DHCP 192:168.1.13 255:255:255.1 192:168.1.1 192:168.1.1 192:168.1.1 Disabled Disabled Disabled	5:f2	Adi Userr Passu Confi	min Settin name: ac word: rm Password: e Reboot 1	gs Imin Toggle Help		Import Se Choose File N Import Config Export Se Export Config	ettings to file chosen ettings	
Nightringer: Primary SIP Serve Backup Server 1: Backup Server 2: Nightringer Server	Disabled r: Not registered Not registered Not registered r: Not registered	rd 1 1							

3. From the Home tab press the 'Device' Tab.



Figure 6-3: Device Tab

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	(Cybe	erD	ata (Out	dooi	r Ho	rn	
Volume S SIP Volume: Multicast Volum Ring Volume: Volume Boost	Settings (0 ne: 4 4 No Volume Bo	-9)			DTM Require Security Enable	F Settings Security Code: / Code: Stored Message Pla	yback I		
Clock Se Set Time with N NTP Server: Posix Timezonu Periodically syn Time update pe Current Time:	ttings NTP server on boo e String (see man nc time with serve eriod (in hours):	ot: north-america ual): PST8PDT,M3 er: 1 1 2:28:47	a.pool.ntp.org ; 2.0/2:00:00,N	111.1.0,	Powe 802.3AT Force 8 Auxiliar Misc	er Settings Mode: D2.3AT Mode (NOT r y Power Supply: Settings	N recommended): 	ot detected. Disable	əd
					Device I Beep or Beep or Disable	Vame: i Init: i Page: HTTPS (NOT recom	Outdoo	r Horn	
Test Audio Save Reb	oot Toggle Hel	lp							

- 4. Check the box for "Set Time with NTP Server on Boot".
- 5. Change the NTP server if necessary.
- 6. Set the **Posix Timezone String** to the local area.

Note: See the operations manual for other time zone strings.

- 7. Check the box for "Periodically sync time with server".
- 8. Set the "Time update period (in hours)" to 1.
- 9. <u>Save.</u>
- **10.** Go to the SIP Tab.



Figure 6-4: SIP Tab

SIP Settings			Nightringer Settings	
Enable SIP operation:			Enable Nightringer:	
SIP Transport Protocol:	TLS V NTP enabled		SIP Server:	50882551.zoom.us
TLS Version:	1.2 only (recommended)	~	Remote SIP Port:	5060
Verify Server Certificate:			Local SIP Port:	5061
Register with a SIP Server:			Outbound Proxy:	us01sip0h.ny.zoom.us
Drimany SID Server			Outbound Proxy Port:	5091
Primary SIP Liser ID:			User ID:	98638997283928416257
Primary SIP Auth ID:			Authenticate ID:	204342171576
Primary SIP Auth Password			Authenticate Password:	
Frinary of Auto Password.			Re-registration Interval (in seconds): 360
Backup SIP Server 1:				
Backup SIP User ID 1:			DTD Cattings	
Backup SIP Auth ID 1:			KIP Settings	
Backup SIP Auth Password 1:			RTP Port (even): 10500	
			Jitter Buffer: 50	
Backup SIP Server 2:			SRTP: Enabled ~	- 14 - 14
Backup SIP User ID 2:				
Backup SIP Auth ID 2:			Call Disconnection	
Backup SIP Auth Password 2:				
			Terminate Call after delay: 0	
Remote SIP Port:	5060			
Local SIP Port:	5060		Codec Selection	
Outbound Proxy:			Force Selected Codec:	
Outbound Proxy Port:	0		Codec: PCMU (G.7	1. u-law) 🗸
Disable rport Discovery:	0			
Be registration Interval (in seconds)	200			
Re-registration interval (in seconds)				
Keep Alive Period:	10000			
Reep Alive Period:				M1197

- 11. Set the 'SIP Transport Protocol' to TLS.
- 12. Keep TLS version set to "1.2 Only (Recommended)".
- 13. Check the box for "Verify Server Certificate".
- 14. Set the SIP Server to the SIP Domain from the configuration popup.
- **15.** Set the **User ID** to the Username from the configuration popup.
- 16. Set the Auth ID to the Authorization ID from the configuration Popup.
- 17. Set the Authenticate Password to the password provided in the configuration Popup.
- **18.** Set the **Outbound proxy** and **Outbound proxy port** to the address provided in the configuration Popup.



Note: Make sure to separate the port from the outbound proxy information provided by zoom.

- **19.** Set SRTP to **Enabled**.
- 20. Check the box for "Force Selected Codec".
- 21. <u>Save.</u>
- 22. Go to the 'SSL' Tab.

Figure 6-5: SSL Tab

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	(Cvbe	erD	ata (Out	door	' Ho	rn	
		,							
Server C	As		Cli	ent Certific	ate		Tes	t SSL Conn	ection
Choose Files Import CA Cert	No file chosen ificate		com val val	monName = CyberDa idFrom = Jul 10 1 idTo = Jul 7 17:	ta SIP Device 7:56:03 2018 (56:03 2028 GM1	94T -	Server: Port:	us01sip0h.ny.zoom. 5091 Test TLS connectio	us
			Clie	nt CA					
Apply/Reboot	Toggle Help								

23. Press the 'Choose Files' button.



🦁 Open							\times
← → • ↑ 📕	« Docum	ents > TLS-Certificates > Zoom	~	U	, ○ Search Z	loom	
Organize • New	v folder						?
📌 Quick access		lame		Date mo	dified	Туре	
📃 Desktop 🗦	*	DigiCertGlobalRootCA.crt.pem		2/9/2021	1:12 PM	PEM File	
Downloads	*] DigiCertGlobalRootG2.crt.pem		2/9/2021	1:12 PM	PEM File	
] DigiCertGlobalRootG3.crt.pem		2/9/2021	1:12 PM	PEM File	
	Ĵ L	_] sbc_ca.pem		2/9/2021	1:12 PM	PEM File	
Ticluste							
lickets 3	ж						
Interop Docu	*						
📜 Firmware 🤉	*						
📜 TFTP-Root 🦻	*						
OneDrive							
Documents							
😓 This PC							
🧊 3D Objects							
📃 Desktop							
Documents							
Downloads							
👌 Music							
E Pictures	~ <						>
F	File name:	DigiCertGlobalRootCA.crt.pem		~	All Files (*.*)		~
					Open	Cancel	

Figure 6-6: Choose file Pop-up

24. Select the certificate file and press the Open button.

25. Press the "Import CA Certificate" button to load the cert.



Figure 6-7: Import CA Certificate

Server CAs	
Choose Files Digio	CertGlo…tCA.crt.pem
Import CA Certificat	te
Restore Defaults	Remove All
Toggle Help	

- 26. Repeat this process for all certificates downloaded during the extension creation process.
- **27.** Once the certificates are loaded a reboot will be required to make the changes take effect Use the "Apply/Reboot Button.
- **28.** Click Reboot in the Popup.

Figure 6-8: <u>Apply/Reboot Popup</u>

Reboot Device	×
The device must be rebooted before certificate settings can be applied. Reboot	now?
Cancel	eboot



Once rebooted, "Registered" will appear in green in the "Status" section of the Home page.

Figure 6-9: <u>Home page – Registered</u>

Home	Device	Network	SIP	Multicast	SSL	Audiofiles	Events	Autoprov	Firmware
	C	ybe	erD	ata (Dut	doo	r Ho	rn	
Current Sta	itus		Ad	min Setting	js		Import S	ettings	
Serial Number: Mac Address: Firmware Version:	324000844 00:20:f7:03:cc:t v12:2:0	12	User Pass Conf	name: adr	nin		Choose File	No file chosen	
IP Addressing: IP Address: Subnet Mask: Default Gateway:	DHCP 192.168.1.13 255.255.255.0 192.168.1.1		Sa	ve Reboot <mark>To</mark>	ggle Help		Export Config	ettings	
DNS Server 1: DNS Server 2:	192.168.1.1						Export Coning		
SIP Mode: Multicast Mode: Event Reporting: Nightringer:	Enabled Disabled Disabled Enabled								
Primary SIP Server Backup Server 1: Backup Server 2: Nightringer Server:	: Not registered Not registered Not registered : Registered	1)							

7.0 Using the CyberData SIP IP66 Horn in a Zoom system.

Once the horn is registered with Zoom, it can be used in several ways. The unit can be directly called by dialing the extension number of the unit. It is also possible to add the unit to a call queue to reach multiple endpoints simultaneously. Keep in mind that with a call queue, multiple devices will ring, but only one device may answer. Due to this operation it is not possible to page to multiple devices at once.

To page multiple horns simultaneously, CyberData recommends using Multicast, which can be sent from most modern SIP phones (e.g. Yealink, Poly, Snom) or a <u>CyberData Paging Server</u> or <u>Multicast Microphone</u>. (Consult your phone's documentation to enable multicast).



7.1 Creating a Call queue

CyberData recommends using the Nightringer extension as part of a call queue, allowing the amplifier 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.

	PLANS & PRICING CONTACT SALES	
Important Update: Zoom will update your a	ccount's meeting and webinar password settings on Sept.	29, 2019 GMT (originally p
PERSONAL	C 11 O	
Profile		
Meetings	Search by Name or Evt)
Phone	Search by Name of Ext.	J
Recordings	Name ÷	Ext. ¢
Settings	Queue	600
ADMIN	Page Size 15 - Total 1	
Dashboard		
> User Management		
> Room Management		
 Phone System Management Users & Rooms 		
Auto Receptionists		
Call Queues		
Phone Numbers		
Phones & Devices		
Call Log Company Info		

Figure 7-1: Add call queue

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



Figure 7-2: <u>Name the queue</u>

Call Queues > Add		
Name		
Description (Optional)		
		1
Extension Number	809	
Member(s)	Add	
Save Cancel		

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

Figure 7-3: Add users

Call Queues > Add	
Name	Sales Line
Description (Optional)	Incoming sales calls
Extension Number	809
Member(s) Save Cancel	Add

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



Figure 7-4: Add Users

Users	Common Area Phones					
					Selected	
Search by	y Name or Ext.	٩			Users (3)	
N:	ame Email		Fxt	User Status	Cameron	×
• • •			EAG	ober otatas	Mauricio	×
< Ca	meron		803	Active	Paul	×
 ✓ 	auricio		802	Active		
🕑 Pa	ul		800	Active		
Page Size	10 • Total 3					

- **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 7-5: Add Common Area Phones

Choose Member(s)		
Users Common Area Phones		
Search by Display Name or Ext. Q		CyberData SIP IP6 ×
 Display Name 	Ext.	
CyberData SIP IP66 Outdoor Horn	813	
Intercom	812	_
Call Button	806	
Indoor Intercom	500	
Page Size 10 • Total 4		
		Cancel

- 7. Click "OK" to confirm your selections.
- 8. Finally, press 'Save' to complete the queue.



Call Queues > Add	
Name	Sales Line
Description (Optional)	Incoming sales calls
Extension Number	809
Member(s)	Selected 6 Member(s) Add
Save	

Figure 7-6: Call queue complete



8.0 Contact CyberData Corporation

Sales

For sales-related questions, please visit our <u>Contact CyberData Sales</u> web page for more information.

Technical Support

For CyberData Technical Support, please submit a <u>Contact CyberData VoIP Technical Support</u> 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 Zoom PBX solution may render this document obsolete. We welcome and encourage documentation feedback to ensure continued applicability.