



# Zoom CONFIGURATION GUIDE: Intercoms

Document Part # 931706F

## CyberData Corporation

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### Zoom Configuration Guide: Intercoms Document #931706F

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## **Revision Information**

- 9-27-19 Initial Release
- 1-31-20 Update to revise Device type selection on Zoom.
- 3-11-21 Update for Zoom phone security update.
- 9-14-21 Update for new provisioning process.
- 10-12-21 Updated compatibility diagram
- 1-12-22 Update for Primary and Nightringer Extension usage.



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## **1.0 Test Setup Equipment**

This section describes the products configured following this document

## **Table 2-1:** <u>Setup Equipment</u>

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
CYBERDATA OUTDOOR INTERCOM	011186	20.4.1 or later
CYBERDATA OUTDOOR KEYPAD INTERCOM	011214	20.3.0 or later
CYBERDATA INDOOR INTERCOM	011211	20.4.1 or later
SIP EMERGENCY INTERCOM	011209	20.4.1 or later



## 2.0 Before You Start

This configuration guide documents the integration process of a CyberData SIP Intercom.

### **Network Advisories**

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

The intercom'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: <u>https://www.cyberdata.net/pages/discovery</u>

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:

Outdoor Intercom (011186): https://www.cyberdata.net/collections/sip/products/011186

Outdoor Intercom with Keypad (011214): https://www.cyberdata.net/collections/sip/products/011214

SIP Indoor Intercom (011211): https://www.cyberdata.net/collections/sip/products/011211

SIP Emergency Intercom (011209) https://www.cyberdata.net/collections/sip/products/011209



## **3.0 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 Intercom as an Intercom/Paging Device.

1. Log into Zoom.

https://zoom.us/signin

### Figure 3-1: Log into Zoom

	Sign In
Email Address	
Email Address	
Password	Forgot password?
Password	
	Sign In
Stay signed in	New to Zoom? Sign Up Free
	Or sign in with
SSO	Google Facebook
By signing in, I agree t	to the Privacy Policy and Terms of Service.



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 3-2: Profile Landing Page



**3.** From "Users & Rooms" navigate to the Common Area Phones tab.

Figure 3-3: Users & Rooms

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

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

### Figure 3-4: 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 common area phone creation.

Add Common A	rea
Display Name	CyberData Outdoor Intercom
Extension Number	855
Package	Zoom Phone Basic (Migrated) <a>The state is a set of the state is</a>
Country/Region	United States (+1)
Time Zone	(GMT-8:00) Pacific Time (US and Canada)
Specify a template to I	be assigned to the Common Area
	Cancel Save

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

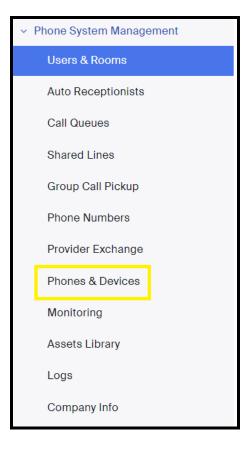
- 6. Set the **Display Name** to the name of the intercom.
- 7. Adjust the Extension Number as necessary.
- 8. Select the desired **Package**.
- 9. Adjust the Country/Region as necessary
- **10.** Adjust the Time Zone if required.
- 11. Press Save.

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	3-5:	Phones	&	Devices



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



Figure 3-6:	Add Device
-------------	------------

Add Device	
Display Name	CyberData Outdoor Intercom
Description (Optional)	
MAC Address	0020f7044131
Device Type	CyberData v
	cyberdata-sip-based-device v
	This device type supports up to 2 assignees.
Assigned to	CyberData Outdoor Intercom × Assign Ext. 855
	Save Cancel

**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**.

CyberData Outdoor Intercom Rename			
No description			
Profile Policy			
Assigned to	CyberData Outdoor Intercom × Assign Ext. 855		
IP Address			
Device Type	CyberData cyberdata-sip-based-device		
Firmware Version			
MAC Address	00-20-f7-04-41-31 Edit		
Provision Template	Unsupported @		
Status	Offline		
Actions ~ Remove			

## Figure 3-7: Device Created

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.

CD Discovery U	tility		-	- 🗆 X
CyberData The IP Endpoint CompanyVoIP Discove Utility			-	
IP Address	DHCP	MAC Address	Serial Number	Device Name
192.168.1.8	Enabled	00:20:f7:04:80:05	146200125	Paging Server
192. <mark>1</mark> 68.1.9	Enabled	00:20:f7:04:d5:85	512000106	VoIP Speaker
192.168.1.14	Enabled	00:20:f7:04:41:31	186201657	Outdoor Intercom
Discover	Open Browser			Quit

Figure 4-1: CyberData Discovery Utility

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

Username: admin Password: admin



Home Device	Network SIP	SSL Multicast	Sensor Audiofiles	Events DSR Autopro	v Firmware
	Су	berDa	ta Inter	com	
Device Status		Sensor State	IS	Import Settings	
Serial Number:	186201657	Relay Status:	Locked	Choose File No file chosen	
Mac Address:	00:20:f7:04:41:31	Door Status:	Closed		
Firmware Version:	v20.4.1	Intrusion:	Opened	Import Config	
Partition 2: Partition 3:	v20.4.1 v20.4.1	Admin Cottin			
Partition 3: Booting From:	partition 3	Admin Settin	igs		
booting i rom.	paration o	Username:	dmin	Export Settings	
Boot From Other Partition		Password:			
Boot From Oaldi Faradon		Confirm Password: •		Export Config	
IP Addressing:	DHCP	Commin Password.			
IP Address:	192.168.1.14				
Subnet Mask:	255.255.255.0	Save	Reboot Toggle Help		
Default Gateway:	192.168.1.1				
DNS Server 1:	192.168.1.1				
DNS Server 2:					
SIP Volume:	4				
Multicast Volume:	4				
Ring Volume:	4				
Sensor Volume:	4				
Push to Talk Volume:	4				
Microphone Gain:	4				
Push to Talk Microphone G	ain: 4				
SIP Mode:	Enabled				
Multicast Mode:	Disabled				
Event Reporting:	Disabled				
Primary SIP Server:	Not registered				
Backup Server 1:	Not registered				
Backup Server 2:	Not registered				
Nightringer Server:	Not registered				

Figure 4-2: <u>Web Interface Login</u>

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



Figure 4-4: Autoprov Tab

Home	Device	Network	SIP	SSL	Multicast	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware
			$\sim$	bo	rDa	ta li	otor	con	n		
			Сy	ne	Da	ια Π	nter	501			
Enable Autop	orovisioning:										
Autoprovisio	ning Server:		https://prov	cdp.zoom.u	s/api/v2/pbx/provi	isioning/CyberD	ata/cyberdata-sip-b	as			
Autoprovisio	ning Filename	e:									
Use tftp:											
Verify Server	Certificate										
Username:											
Password:				_							
Autoprovisio	ning autoupd	ate (in minutes):	0								
Autoprovisio	n at time (HHI	MM):									
Autoprovisio	n when idle (i	n minutes > 10):	0								
See the manu	al to learn how	r to use autoprovi	isioning to c	onfigure you	r device.						
Autoprovisioni	ing happens or	n boot.									
The device wil	ll first look for a	a configured serve	er address a	and filename							
If these haven	't been confiau	ıred. it will look fo	r an autopro	ovisionina se	rver in vour list of	DHCP options	and try to download	I '0020f70441;	31.xml' and if	this fails. '000000	cd.xml'.
				0	,	,					
Save Re	eboot Togg	gle Help									

- 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.



Home	Device	Network	SIP	SSL	Multicast	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware
			JV	be	rDa	ta li	nter	con	n		
Device	Status			Sen	sor Statu	IS		Impo	rt Settir	ngs	
Serial Numbe		186201657		-	Status:	Locked		Choose	File No file	chosen	
Mac Address Firmware Ver		00:20:f7:04: v20.4.1	41:31	Door S Intrusi		Closed Opened					
Partition 2:		v20.4.1						Import 0	Config		
Partition 3: Booting From		v20.4.1 partition 3		Adr	nin Settin	igs					
Booting From		paration 5		Usern	ame: ac	dmin		Expo	rt Settii	nas	
Boot From C	Other Partition			Passw	ord: ···					Ŭ	
				Confir	m Password: •••	•••		Export	Config		
IP Addressing	g:	DHCP									
IP Address: Subnet Mask		192.168.1.1			Save R	eboot Togg	le Help				
Default Gatev		192.168.1.1									
DNS Server 1		192.168.1.1									
DNS Server 2	:										
SIP Volume:		4									
Multicast Volu		4									
Ring Volume: Sensor Volun		4									
Push to Talk		4									
Microphone (		4									
Push to Talk	Microphone Gain:	4									
SIP Mode:		Enabled									
Multicast Mod		Disabled									
Event Report	ing:	Disabled									
Primary SIP S	Server:	Registered									
Backup Serve		Not register									
Backup Serve Nightringer S		Not register									

## Figure 4-5: <u>Home page - Registered</u>



Provisionin	ıg	
MAC Address	00-20-f7-04-41-31	
Device Type	CyberData cyberdata-sip-based-device	
Provisioning URL	https://provcdp.zoom.us/api/v2/pbx/provisioning/CyberData/cyberda ta-sip-based-device	Copy to Clipboard
<ol> <li>Step 1</li> <li>✓ Provisioning c</li> </ol>	completed successfully	
		Close



## 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.

Add Common Ar	ea
Display Name	CyberData Nightringer
Extension Number	856
Package	Zoom Phone Basic (Migrated) 🛞 Assign
Country/Region	United States (+1)
Time Zone	(GMT-8:00) Pacific Time (US and Canada) v
Specify a template to be	e assigned to the Common Area
	Cancel Save

Figure 4-7: <u>Add Nightringer</u>

- 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

CyberData Outdo	or Intercom Rename
No description	
Profile Policy	
Assigned to	CyberData Outdoor Intercom Ext. 855
	Common Area V 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 💿

## Figure 4-8: Assigning Nightringer

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.

Manage	Кеу				
	the Position will cause the er of keys you set is limited		on the device. Keys that exceed t	he limit will not be effective.	
Кеу	Key's Owner	Key Assignment	Alias (Optional)	Outbound Caller ID	
1	CyberData Outdoor	Ext. 855 CyberData Outdoor Intercom	Enter Alias	Main Company Number (831) 217-3337	† 4
2	CyberData	Ext. 856 CyberData Nightringer	Enter Alias	Main Company Number (831) 217-3337	t 4
3					1 I
4					1 I
5					1 I
6					1 I
7					1 I
8					1 I
9					1 I
10					1 I
Page 1 of	30 〈 〉 Page Si:	re 10 · Tot	al 300		
					Cancel Save

### Figure 4-9: Key Positions



## 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.

Home	Device	Network	SIP	SSL	Multicast	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware			
	С	vbe	rD	at	a Oi	utd	oor	Inte	erc	om				
		<b>y</b> ~ c								•				
SIP Set	SIP Settings Nightringer Settings													
Enable SIP o	peration:					SIP Se	-							
	a SIP Server:	2				SIP Us					-			
Primary SIP	Server:	50882	2551.zoom.u	IS							_			
Primary SIP	User ID:	46371	13327177		_	SIP Au	ith Password:				_			
Primary SIP	Auth ID:	98959	1801986		_									
	Auth Password					Re-reg	istration Interval	(in seconds):	360					
1	on interval (in s													
		,				Dial	Out Setti	nas						
Backup SIP	Server 1:						_							
Backup SIP L	User ID:				_			302						
Backup SIP A	Auth ID:				_			ront Entrance	Intercom					
	Auth Password	. –					Multicast Audio:							
	on interval (in s							24.5.5.5						
		,						6050						
Backup SIP S	Server 2:					Repea	t Message: 1							
Backup SIP (	User ID:													
Backup SIP /	Auth ID:					Call	Disconne	ection						
Backup SIP /	Auth Password	:			_				_					
Re-registratio	on interval (in s	econds): 360				Termir	nate Call after del	ay:0						
Ĩ														
Remote SIP I	Port:	5060				Auc	lio Codec	Selectio	n					
Local SIP Po	irt:	5060												
			_			Codec	: PCMU (G.711, u	-iaw) 🔻						
SIP Transpor TLS Version:			<ul> <li>NTP ena</li> </ul>		*									
Verify Server		1.20	nly (recomm	ienced)	•	RTF	<b>Settings</b>							
comy ourver	e e fantoase.						ort (even): 10500							
Outbound Pr	roxy:	us01s	ipsj0h.zoon	n.us			Buffer: 50							
Outbound Pr	roxy Port:	5091				Jitter	Suner. 50							
Use Cisco SF						Save	e Reboot T	Toggle Help						
Disable rport														
Unregister of		-												
Keep Alive P	eriod:	10000	)											

Figure 5-1: Set the Dial out Extension



## 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	Figure	5-2:	Dial	Modes
------------------------	--------	------	------	-------

Home	Device Butte	ons Security	Network	SIP SSL	Multicast	Access Log	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware
	С	ybeı	'Da	ta k	Ceyp	bad	Int	erc	om			
Dial Mo	de phone Operation:	•				eed Dial S		i				
Enable Cell F Enable Spee	Phone Operation: d Dial Operation: irity Operation:				Кеур Кеур Кеур	ad 1: 800 ad 2: 801 ad 3: 802		ID: Ent	trance Interco trance Interco trance Interco	om		
	y Mode Se				Кеур Кеур	ad 4: 803 ad 5: 804 ad 6: 805		ID: Ent	trance Interco trance Interco trance Interco	om		
	ivation Code: 9870	6456			Кеур Кеур	ad 7: 806 ad 8: 807 ad 9:		ID: Ent	trance Interco trance Interco			
Call Button: Send Multica	ast Audio:		trance Intercor	n	Кеур Кеур	ad 0: ad *: ad #: Button: 600			trance Interco			
Multicast Ad Multicast Po Repeat Mess	rt: 5050	.5				tton Tone	s					
						Button Tones:						
						Start Button Test	Toggle He	elp				

#### • Telephone Operation

- $\circ$  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

Home Device Buttons Security Netwo	ork SIP SSL	Multicast	Access Log	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware
		•							
CyberD	ata K	eyp	ad	Int	erc	om			
Dial Mode		Spee	ed Dial S	ettings					
		· · ·							
Enable Telephone Operation: O Enable Cell Phone Operation: O			Dial Timeout:	0					
Enable Speed Dial Operation: •		Keypad				trance Interco			
Enable Security Operation: O		Keypad Keypad				trance Interco		_	
		Keypad				rance Interco			
Security Mode Settings		Keypad				rance Interco		_	
		Keypad				trance Interco		_	
Relay Activation Code: 9876123		Keypad				rance Interco			
Relay Deactivation Code: 9876456		Keypad	8: 807		ID: Enf	rance Interco	om		
Allow Telephone Dialout:		Keypad	9:		ID:				
Allow Telephone Dialout:		Keypad	0:		ID:				
Call Button: 600 ID: Entrance In		Keypad	*:		ID:				
Call Button: 600 ID: Entrance In Send Multicast Audio:	lercom	Keypad	#:		ID:				
Multicast Address: 224.5.5.5		Call But	ton: 600		ID: Enf	trance Interco	om		
Multicast Port: 5050									
Repeat Message: 1		Butte	on Tone	s					
			tton Tones: 🛃	- -					
		Рау Би	uon iones: 🕑						
		Sav	e Reboot						
		Star	t Button Test	Toggle He	lp				



### 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.

Home Device Buttons Security Network SIP SSL Mu	lticast Access Log	sensor	Audiofiles	Events	DSR	Autoprov	Firmware					
Dial Mode Speed Dial Settings												
Dial Mode	Speed Dial	Settings										
Enable Telephone Operation:  Enable Cell Phone Operation:  Enable Speed Dial Operation:  Enable Security Operation:	Speed Dial Timeou           Keypad 1:         800           Keypad 2:         801           Keypad 3:         802           Keypad 4:         803		ID: En ID: En ID: En	trance Interco trance Interco trance Interco trance Interco	om om							
Security Mode Settings	Keypad 5: 804			trance Interco								
Relay Activation Code: 9876123	Keypad 6: 805 Keypad 7: 806			ID: Entrance Intercom								
Relay Deactivation Code: 9876456	Keypad 8: 807			trance Interco								
Allow Telephone Dialout: 🔲	Keypad 9: Keypad 0:		ID:			_						
Call Button: 600 ID: Entrance Intercom	Keypad *:		ID:									
Send Multicast Audio:	Keypad #:		ID:	transa Intora								
Multicast Address:     224.5.5.5       Multicast Port:     5050       Repeat Message:     1	Call Button: 600	es	ID: En	trance Interco	JM							
	Play Button Tones	ot	łp									

Figure 5-4: Security Mode Operation



## 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: <u>Relay Settings</u>

Home Device Buttons Security Network SIP SSL Multic	ast Access Log Sensor	Audiofiles Events	DSR	Autoprov	Firmware
CyberData Keypad Intercom					
Volume Settings (0-9)	Relay Settings				
SIP Volume: 4	Activate Relay with DTMF code:	<b>a</b>			
Multicast Volume: 4	Relay Pulse Code:	123			
Ring Volume: 4	Relay Pulse Duration (in seconds):	2			
Sensor Volume: 4	Relay Activation Code:	456			
Push to Talk Volume: 4	Relay Deactivation Code:	654			
	Play Tone During DTMF Activation:				
Microphone Settings (0-9)	Activate Relay During Ring: Activate Relay During Night Ring:				
Microphone Settings (0-9)					
	Activate Relay On Button Press:				
Push to Talk Microphone Gain: 4	Relay On Button Press Duration:	3			
· · · · · · · · · · · · · · · · · · ·	Misc Settings				
Enable NTP:   NTP Server: north-america.pool.ntp.org	Device Name:	Keypad Intercom			
Timezone: America/Los Angeles	Auto-Answer Incoming Calls: Button Lit when Idle:	<ul> <li>Image: A set of the set of the</li></ul>			
Current Time: Thu. 03 Oct 2019 15:58:08	Button Brightness (0-255):	255			
	Keypad Lit when Idle:	<ul><li>✓</li></ul>			
	Keypad Brightness (0-255):	255			
	Play Ringback Tone:				
	Enable Push to Talk:				
	Enable DTMF Push to Talk: Prevent Call Termination:				
	Disable HTTPS (NOT recommended				
Save Reboot Toggle Help Test Audio Test Microphone Test Relay					

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



## 6.0 Setup Diagram

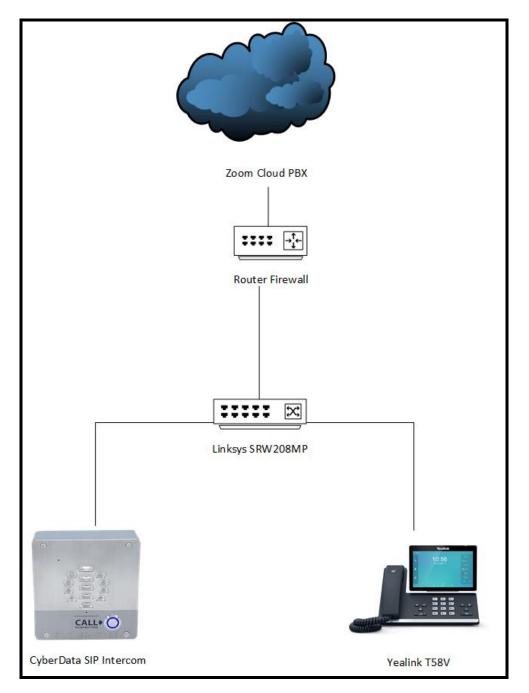


Figure 6-1: Interoperability Test Infrastructure



## 7.0 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.