

# Blueface Configuration Guide: SIP Call Button

Document Part # 931909B

CyberData Corporation

3 Justin Court Monterey, CA 93940 (831) 373-2601



#### Blueface Configuration Guide: SIP Call Button Document #931909B

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### **Revision Information**

- 1/3/2022 Initial Release
- 1/5/2022 Name Update



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### 1.0 Setup Diagram

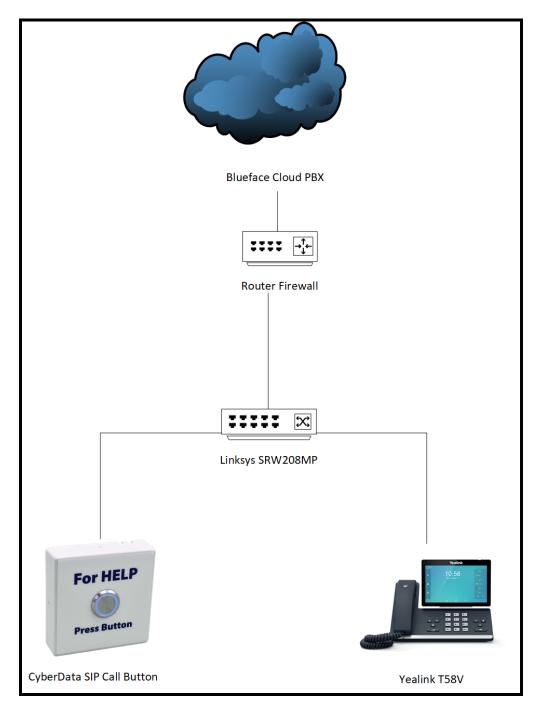


Figure 1-1: Interoperability Test Infrastructure



### 2.0 Test Setup Equipment

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

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

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
CYBERDATA SIP CALL BUTTON	011049	20.3.0
CYBERDATA SIP OUTDOOR CALL BUTTON	011491	20.3.0



### 3.0 Before You Start

This configuration guide documents the integration process of the CyberData SIP Call Button.

#### **Network Advisories**

Blueface uses a Fully Qualified Domain Name (FQDN) for the SIP server address. The CyberData SIP Call Button need to perform a DNS A query to resolve the IP address of Blueface's SIP Server FQDN. It is necessary to ensure the configured DNS server(s) have an A record for the SIP Server address.

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

- UDP 5062 (SIP)
- UDP 10500 (RTP)

The button will need to traverse the public internet in order to operate with Blueface in the cloud.

The button's paging extension uses SIP port 5060 to receive SIP messages. The device will send SIP messages to port 5062, the port used by Blueface's SIP Server.

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

Alternatively, SIP ports for the device are configurable on the SIP page of the web interface.

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 button's product webpage:

SIP Call Button <u>(011049)</u>:

https://files.cyberdata.net/assets/011049/011049\_931551C\_SIP\_Call\_Button\_Operations\_Guide. pdf

SIP Outdoor Call Button (011491):

https://files.cyberdata.net/assets/011491/011491\_931656C\_SIP\_Outdoor\_Call\_Button\_Operations\_Guide.pdf



### 4.0 Configuration Procedure: Callflow Setup

Blueface does not allow users to add their own devices to the platform. The MAC addresses of the devices must be provided to the account manager, who can then add the devices to the platform for you. An email will then be generated and sent to you that will contain the registration information for the CyberData device.

Blueface requires a callflow to be created to call or make a call from any device. This section will outline how to create the dial plan.

**1.** Log into Blueface.

https://portal.nsvconnect.com/login

Username		
Password		۲
L	.og in	~
Forgot Password?	English - USA	~

Figure 4-1: Login



2. From the landing page Phone and then callflows.

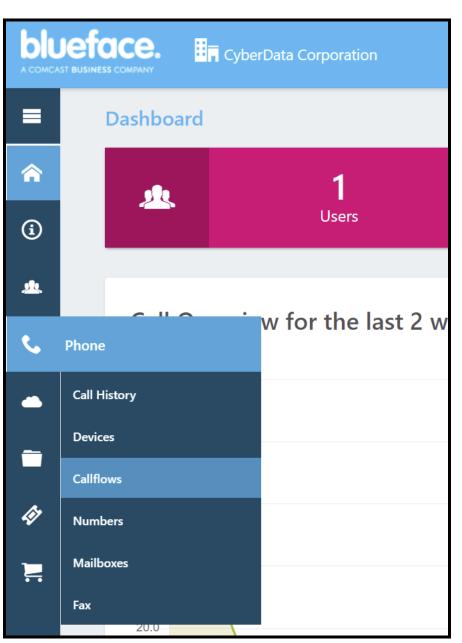


Figure 4-2: <u>Dashboard</u>



3. On the Callflows page press Create New Flow.

	Figure 4-3:	Callflow Page
--	-------------	---------------

allflows						
Search						٩
	Parks	Å	Flow Switches	Φ	Create New Flow	+

**4.** Name the new callflow and set a description.

#### Figure 4-4: <u>Callflow designer</u>

Designer				
Name: *	Desc	cription:		
SIP Call Button	Ca	all Button		
Callflow				× 2 9
		+		*
		💊 🙆 😐		
		ŧ		
				*
Undo C	Erase Califlow	â Cancel	0	Save >

5. From Elements drag **Ring** into the Callflow.



- 6. Click the yellow exclamation point to open the **Ring Element Settings** popup.
- **7.** Select the Phone tab in the popup.
- 8. Select the Device that will be used in the group.

Ring Element Settings			×
Timeout: *     20     This configuration rings the destination for	or 20 seconds		
± € ₹	말	Selected destinations	
Search	٩	Generic SIP Device - SIP Call Button - Line 1	â
Devices			
Office Ringer Generic SIP Device	+		
Outdoor Intercom Generic SIP Device	•		
Outdoor Keypad Intercom	٠		
Paul Tuttle SA	ne 🕇		
SIP Paging Adapter	•		
< 1 2 3 >			
Extra options			~
		Cancel O	Ok 🗸

#### Figure 4-5: <u>Ring Element Settings</u>

- 9. Press Ok to save the device to the callflow.
- **10.** Press Save to save the callflow.



### Figure 4-6: Callflow Designer

Designer	
Name: *	Description:
Office Ringer	Office Ringer
Callflow	x x 💌
	+
	Birg: line Genetic SIP Device
	ŧ
Undo 🕞 Erase Califi	ow 📋 Cancel 🛇 Save 🕨

- **11.** Click the **Save** button to create the Phone.
- **12.** Next link a number to the new callflow.
- **13.** Save the number to the callflow.

#### Figure 4-7: Link a Number

imeout: *			
nis configuration rings the destination f	or 20 seconds		
1 V V	et	Selected destinations	
iearch	۹	Generic SIP Device - SIP Call Button - Line 1	E
levices			
Office Ringer	+		
Contract SIP Device			
Outdoor Intercom	+		
Outdoor Keypad Intercom Generic SIP Device	+		
Paul Tuttle SA	+		
R NSv Connect UC Softpho	ine 🛄		
SIP Paging Adapter SIP Content SIP Device	•		
_			
1 2 3 >			
ra options			



### 5.0 Configuration Procedure: Setting up the Paging Extension

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

CyberData Setting	Blueface Email
Primary SIP Server	SIP Server
Primary SIP User ID	Username
Primary SIP Auth ID	Authentication ID
Primary SIP Auth Password	Password

#### Table 5-1: <u>Setting Name correlation</u>

1. Click Launch 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.

Cyber[				VoIP Discovery Utility
IP Address	DHCP	MAC Address	Serial Number	Device Name
192.168.1.15	Enabled	00:20:f7:04:5d:ce	398001862	CyberData SIP Speake
192.168.1.16	Enabled	00:20:f7:04:41:31	186201657	Outdoor Intercom
192.168.1.19	Enabled	00:20:f7:03:f9:4e	049200130	Call Button
192.168.1.17	Enabled	00:20:f7:04:6e:95	233200125	Paging Adapter
192.100.1.17		00.20.17.04.66.95	233200125	Faging Adapter

#### Figure 5-1: CyberData Discovery Utility

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

Username: admin Password: admin



Figure 5-2: Home Tab

Home Device	Network SIP	SSL Sensor	Audiofiles Event	s DSR	Autoprov Firmware
	Cybe	erData (	Call Bu	itton	
<b>Current Status</b>		Admin Settings		Import Settin	ngs
Serial Number: Mac Address: Firmware Version: Partition 2: Partition 3: Booting From: Boot From Other Partition	049200130 00:20:f7:03:f9:4e v20.3.0 v20.3.0 v20.3.0 partition 2	Username: admin Password: Confirm Password: Save Reboot Toggle	Help	Choose File No file Import Config Export Settin	
IP Addressing: IP Address: Subnet Mask: Default Gateway: DNS Server 1: DNS Server 2:	DHCP 192.168.1.19 255.255.255.0 192.168.1.1 192.168.1.1			Export Config	
SIP Mode: Event Reporting:	Enabled Disabled				
Primary SIP Server: Backup Server 1: Backup Server 2:	Not registered Not registered Not registered				
Intrusion Sensor:	Triggered				

**3.** Navigate to the SIP tab.

*Note:* All SIP credentials are listed in an email sent by Blueface after the device was added to the platform.

- 4. Set the **Primary SIP Server** to the value listed for SIP Server.
- 5. Set the **Primary SIP User ID** to the value listed for the Username.
- 6. Set the Primary SIP Auth ID to the value listed for the Authentication ID.
- 7. Set the **Primary SIP Auth Password** to the value listed for the Password.
- 8. Set the **Remote SIP Port** to 5062.



Figure 5-2: SIP Tab

	CyberD	ata Call Button
SIP Settings		Dial Out Settings
Enable SIP operation: Register with a SIP Server: Primary SIP Server: Primary SIP User ID: Primary SIP Auth ID: Primary SIP Auth Password: Re-registration Interval (in seconds)	C Cust-uc-us.nsvconnect.com nyP8gQRu6QSbqnyJwZea nyP8gQRu6QSbqnyJwZea 	Dial out Extension:204Extension ID:Front Office Panic ButtonSend Multicast Audio:
Backup SIP Server 1: Backup SIP User ID: Backup SIP Auth ID: Backup SIP Auth Password:		Call Disconnection Terminate Call after delay: 0
Re-registration Interval (in seconds)	: 360	Audio Codec Selection
Backup SIP Server 2: Backup SIP User ID:		
Backup SIP Auth ID: Backup SIP Auth Password:		RTP Settings
Re-registration Interval (in seconds)	: 360	RTP Port (even):     10500       Jitter Buffer:     50       RTP Encryption (sRTP):     Disabled ~
Remote SIP Port: Local SIP Port:	5062 5060	Save Reboot Toggle Help
SIP Transport Protocol: TLS Version: Verify Server Certificate:	UDP V 1.2 only (recommended)	~
Outbound Proxy: Outbound Proxy Port:	0	
Use Cisco SRST: Disable rport Discovery: Unregister on Boot: Keep Alive Period:	- - 10000	

9. Save and Reboot.

Once the button finishes rebooting the unit should show Registered on the home tab.



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					DSR Autoprov	
	Cyb	<b>erDa</b> t	ta Call	But	on	
Current Status		Admin Set	ttings	Imp	ort Settings	
erial Number:	049200130	Username:	admin	Choo	se File No file chosen	
lac Address: irmware Version:	00:20:f7:03:f9:4e	Password:		_		
irmware Version: artition 2:	v20.3.0 v20.3.0	Confirm Passwor	d:	Imp	ort Config	
artition 2:	v20.3.0					
looting From:	partition 2					
Boot From Other Partition		Save Reboo	t Toggle Help	Exp	ort Settings	
P Addressing:	DHCP			Exp	ort Config	
Address:	192.168.1.19					
ubnet Mask:	255.255.255.0					
efault Gateway:	192.168.1.1					
NS Server 1: NS Server 2:	192.168.1.1					
IP Mode:	Enabled					
vent Reporting:	Disabled					
rimary SIP Server:	Registered					
ackup Server 1: lackup Server 2:	Not registered					

#### Figure 5-3: <u>Home Tab – Registered</u>



## 6.0 Using the CyberData Call Button

CyberData SIP Call Button is designed for emergency notification. When the call button is pressed it will make a call to a predetermined number and play a user uploaded audio file. The call button can also send multicast when pressed which is useful when using other IP-Based devices. The SIP Call Button is ideal for under desk panic buttons.

### **6.1 Setting the Dialout Extension**

Once the call button is registered, the Dialout Extension is used to set the number called when the button is pressed. The Dialout Extension can be configured on the SIP Tab.

Dial Out Settings								
Dial out Extension:	204							
Extension ID:	Front Office Panic Button							
Send Multicast Audio	:							
Multicast Address:	224.5.5.5							
Multicast Port:	5050							
Repeat Message:	1							

Figure 6-1: Set Dialout Extension



### 6.2 Uploading an audiofile to the call button

CyberData devices require audiofiles to be in a specific format.

- Microsoft PCM
- 8000hz
- Mono
- 16 Bit
- WAV format
- 1. After creating the audio file that will be used, load the file on the Audiofiles Tab.

#### SSL Audiofiles DSR Home Device Network SIP Sensor Events Autoprov Firmware **CyberData Call Button** Available Space:1485MB Intrusion Sensor Triggered: Currently set to: default Choose File No file chosen Currently set to: default Door Ajar: Choose File No file chosen Delete Save Button Message: Currently set to: default Choose File No file chosen SIP Multicast Message: Currently set to: default Choose File No file chosen Save

2. Press the Choose File button, then select the audio file.

#### Figure 6-2: Audiofiles tab



C Open				X
🕞 🕞 🗢 📕 🕨 Libraries 🕨 Music 🕨 My I	Music     Cyberdata ready music files     Distress Messages	<b>- </b>	Search Distress Messages	Q
Organize 🔻 New folder			≣≡ ▼ □	0
<ul> <li>★ Favorites</li> <li>■ Desktop</li> <li>Downloads</li> <li>Secent Places</li> <li>MAINFRAME</li> <li>TFTP-Root</li> <li>Firmware Images</li> <li>Interop Projects 2019</li> <li>Tickets</li> <li>■ Documents</li> <li>Music</li> <li>■ Pictures</li> <li>■ Videos</li> <li>Ivideos</li> <li>Ivideos</li> <li>Network</li> </ul>	Music library Distress Messages Name Image: Distress-Message-Office102.wav		Arrange by: Folder	•
File name: Distress-Me	≺ III ssage-Office102.wav	•	All Files (*.*) Open 🗣 Canc	el

### Figure 6-3: Select the Audio file

**3.** Once the audio file is selected, press the save button to load the audio file.

#### Figure 6-4: Save File

Home	Device	Network	SIP	SSL	Sensor	Aud	iofiles	Events	DSR	A	utoprov	Firmware
		•										
		Су	be	rDa	ata	Ca		But	to	n		
		Intrusion Senso	r Triggered	•Currently set	Available Spa	ace:1485N	ИB					
		indusion senso	i iliggered	.currentiy set		ose File	No file chos	sen	Delete	Save		
		Door Ajar:		Currently set	to: default							
					Cho	ose File	No file chos	sen	Delete	Save		
		Button Message	91	Currently set								
						ose File	No file chos	sen	Delete	Save		
		SIP Multicast M	essage:	Currently set					Datata	0		
					Cho	ose File	Distress-Me	esfice102.wav	Delete	Save		



4. Once the file is loaded, a press of the call button will trigger the message.

	Figure	6-5:	Loaded	Audio	File
--	--------	------	--------	-------	------

Home	Device	Network	SIP	SSL	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware
		Су	be	rDa	ata (	Call	But	ton	1	
	Intrusion S	Sensor Triggered	Currently set	to: default	Available Spa	ce:1485MB				
	Door Ajar:		Currently set			Choose File	No file chosen		Delete Save	
	Button Me	ssage:	Currently set	to: Distress-I	Message-Office10	D2.wav	No file chosen		Delete Save	
	SIP Multica	ast Message:	Currently set	to: default			No file chosen		Delete Save	
						Choose File	INO THE CHOSEN		Delete Save	



## 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.

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