



## Wildix Configuration Guide: SIP Strobes

Document Part # 931894C

#### CyberData Corporation

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#### Wildix Configuration Guide: SIP Strobes Document #931894C

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## **Revision Information**

- 10/7/2021 Initial Release
- 10/14/2021 Updated extension creation process.
- 11/10/2021 Updated screenshots and extension requirements.



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## **1.0 Setup Diagram**

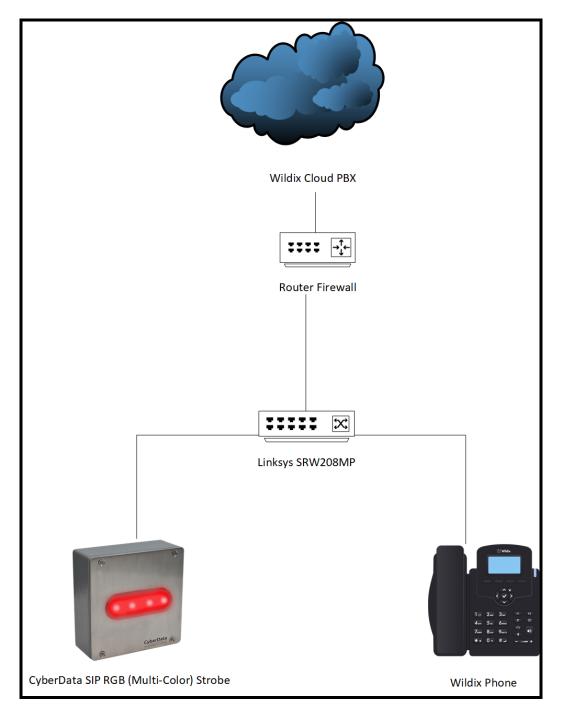


Figure 1-1: Interoperability Test Infrastructure



## 2.0 Test Setup Equipment

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

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

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
SIP RGB (MULTI-COLOR) STROBE	011376	20.0.0
SIP OUTDOOR RGB (MULTI- COLOR) STROBE	011479	20.0.0
LINKSYS SWITCH	SRW208MP	



## 3.0 Before You Start

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

#### **Network Advisories**

Wildix uses a Fully Qualified Domain Name (FQDN) for the SIP server address. The CyberData SIP Strobes needs to perform a DNS A query to resolve the IP address of Wildix'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 5060 (SIP)
- UDP 10500 (RTP)

The strobe will need to traverse the public internet in order to operate with Wildix in the cloud.

The strobe's paging extension uses SIP port 5060 to receive SIP messages. The paging extension will send SIP messages to port 5060, the port used by Wildix's SIP Server.

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

Alternatively, SIP ports for the paging extension 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: CyberData SIP RGB (Multi-Color) Strobe (<u>011376</u>)

https://files.cyberdata.net/assets/011376/011376\_931567B\_SIP\_RGB\_Strobe\_Ops\_Guide.pdf

CyberData SIP Outdoor RGB (Multi-Color) Strobe (011479)

https://files.cyberdata.net/assets/011479/011479\_931629B\_SIP\_Outdoor\_RGB\_Strobe\_Operations\_Guide.pdf



## 4.0 Configuration Procedure: Extension Creation

*Note:* Wildix requires a Wildix UC-Basic (simple intercom usage or Vision & Super Vision user) or Wildix UC-Essential (users who want to manage the intercom from Collaboration) to use CyberData products on the platform.

**1.** Log into Wildix.

Welcome to Wildix Collaboration	
Login	
Password	
Remember me Login	
Login with <b>G</b>	

Figure 4-1: Log into Wildix



2. On the Users Menu page press the + button to add a new extension.

se	sers Groups Phonebooks Q Search														
			Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial		Group	Department	License type
6			admin	admin						internalc	internalc		Admin		
6			Rob		201		+16145552123			users	users		New		Premium
L			Todd		202		+16145552122			users	users		Old		Premium
6		ZD	Paul		203		+16144841530			users	users		Admin		Premium
L			Cyberdata		300					users	users		Admin		Premium
L			Yealink Phone		204					users	users		Default		Essential
L			CyberData Nightringer		301					users	users		Default		Essential

#### Figure 4-2: Users Menu

**3.** A pop-up to create the extension will appear.

Figure 4-3:	Extension	creation

Add		Х
	User 🗸	
Full Name		
Login		
Extension		
Fax		
Office		
Email		
Mobile		
Dialplan	users (Internal dialplan)	
Fax dialplan	users (Internal dialplan)	
Language	En-us 🗸	
Group	Default 🗸	
Department		
License type	Essential ~	
		Ok Cancel



- 4. Make sure the drop-down menu has User selected.
- 5. Set the full name to the location of the strobe.
- 6. Set the Extension Number desired for the device.

*Note: Other values can be set, but for the purposes of this guide all other fields are left blank.* 

Figure 4-4: <u>Filled Extension Popup</u>

Edit		Х
	User V	
Full Name	Cyberdata RGB Strobe	
Login		
Extension	300	
Fax		
Office		
Email		
Mobile		
Dialplan	users (Internal dialplan)	
Fax dialplan	users (Internal dialplan)	
Language	En-us ✓	
Group	Admin 🗸	
Department		
License type	Premium V	
	OkCar	ncel

- 7. After filling the values press **Ok** to create the extension.
- 8. After creating the extension select it out of the list.



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#### Figure 4-5: Extension Created

V														
Jse	sers Groups Phonebooks Q Search													
		Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial		Group	Department	License type
		admin	admin						internalc	internalc		Admin		
2		Rob		201		+16145552123			users	users		New		Premium
L		Todd		202		+16145552122			users	users		Old		Premium
	🛛 ZD	Paul		203		+16144841530			users	users		Admin		Premium
2	•	Cyberdata RGB Strobe		300					users	users		Admin		Premium
L	•	Yealink Phone		204					users	users		Default		Essential
L		CyberData Nightringer		301					users	users	100	Default		Essential

- 9. After selecting the extension, press Set Passwords.
- 10. Click on the Generate button for SIP/VoIP to create a password.

#### Figure 4-6: <u>Set Passwords Popup</u>

Set passwords			Х
WEB		Generate	
SIP/VoIP	•••••	Generate Show	
		Ok	ancel

**11.** Click the show button and copy the auto-generated password which will be required in the next section.



### 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	Wildix Provisioning Pop-up
Primary SIP Server	SIP Domain
Primary SIP User ID	Extension Number
Primary SIP Auth ID	Extension Number
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.

Discovery U Cyber[ The IP Endpoint	Data		VoII	P Discovery Utility
IP Address	DHCP	MAC Address	Serial Number	Device Name
192.168.1.30	Enabled	00:20:f7:04:33:03	376200225	Multicolor Strobe

#### 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



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



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Figure 5-3: SIP Tab

Home Device N	etwork SIP SSL	Multicast	Sensor	Audiofi	iles	Events	Auto	prov	Firmware
Cv	berData	Mu	ltico	olo	r S	tr	ob	е	
SIP Settings			Nightrin	ger Set	ttings				
Enable SIP operation:			SIP Server:			<u> </u>			1
Register with a SIP Server:			SIP User ID:						
Primary SIP Server: Primary SIP User ID:	wildixstudent9.wildixin.com 300		SIP Auth ID:						
Primary SIP Oser ID: Primary SIP Auth ID:	300		SIP Auth Pass						
Primary SIP Auth Password:			Re-registratio	n Interval (in	n seconds):	360			
Re-registration Interval (in seconds	): 360								
Baskup CID Cancer &			SIP Ring	g Strobe	e Setti	ngs			
Backup SIP Server 1: Backup SIP User ID:			Blink Strobe o					-	
Backup SIP Oser ID: Backup SIP Auth ID:			Scene	Brightnes		Red	Green	Blue	Desta
Backup SIP Auth Password:			ADA 💊	255	Color -	255	255	255	Preview
Re-registration Interval (in seconds	i): 360								
2012/02/2012 00:00			SIP Call	Strobe	Settin	gs			
Backup SIP Server 2: Backup SIP User ID:			Blink Strobe of	during Call:					
Backup SIP Oser ID: Backup SIP Auth ID:			Scene	Brightnes	1	Red	Green	Blue	_
Backup SIP Auth Password:			ADA 🗸	255	Color +	255	255	255	Preview
Re-registration Interval (in seconds	): 360								
			MWI Str	obe Set	ttings				
Remote SIP Port:	5060		Blink Strobe of	on MWI:					
Local SIP Port:	5060		Scene	Brightnes	0	Red	Green	Blue	_
SIP Transport Protocol:			ADA 🗸	255	Color -	255	255	255	Preview
TLS Version: Verify Server Certificate:	1.2 only (recommended)	~							
verify server certificate.			Nightrin	ger Str	obe Se	etting	s		
Outbound Proxy:			Blink Strobe of	on Nightring:					
Outbound Proxy Port:	0		Scene	Brightnes		Red	Green	Blue	-
Use Cisco SRST:			ADA 💊	255	Color -	255	255	255	Preview
Disable rport Discovery:									
Unregister on Boot:			Call Dis	connec	tion				
Keep Alive Period:	0								
			Terminate Cal	i after delay:	10				
			Audio C			n			
			Codec: Auto S	Select	~				
			RTP Set	tings					
			RTP Port (eve						
			Jitter Buffer:	n): 10500					
			- nor conten	[ <del>30</del>			_		
			Save	eboot Tog	ggle Help				

- 4. Set the Primary SIP Server with the FQDN of the Wildix Server
- 5. Set the Primary SIP User ID to the extension number.
- 6. Set the Primary SIP Auth ID to the extension number.
- 7. Set the Primary SIP Auth Password to the auto generated password from the provisioning pop-up.
- **8.** Set the Keep Alive Period to 0.
- **9.** Save.
- 10. Reboot.



After the reboot the Call Button should be registered with Wildix.

Figure 5-4: Home Tab - Registere
----------------------------------

Home D	evice Network	SIP SS	L Multicast	Sensor	Audiofiles	Events	Autoprov	Firmware
	Cybe	rDat	a Mu	Itico	olor	Stro	be	
Current Star	tus	Ad	min Settings		h	nport Sett	ings	
Serial Number: Mac Address: Firmware Version: Partition 2: Partition 3:	376200225 00:20:f7:04:33:0 v20.0.0 v20.0.0 v20.0.0	User <sup>3</sup> Pass	name: admin			Choose File No fi		
Booting From: Boot From Other Pa		Sat	e Reboot Togg	ile Help		Export Sett	tings	
IP Addressing: IP Address: Subnet Mask: Default Gateway: DNS Server 1: DNS Server 2:	DHCP 192.168.1.30 255.255.255.0 192.168.1.1 192.168.1.1							
SIP Mode: Multicast Mode: Event Reporting: Nightringer:	Enabled Disabled Disabled Disabled							
Primary SIP Server: Backup Server 1: Backup Server 2: Nightringer Server:	Registered Not registered Not registered Not registered							
Intrusion Sensor:	Triggered							



# 6.0 Configuration Procedure: Setting up the Nightringer 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	Wildix Provisioning Pop-up
Primary SIP Server	SIP Domain
Primary SIP User ID	Extension Number
Primary SIP Auth ID	Extension Number
Primary SIP Auth Password	Password

Table 6-1: Setting Name co	rrelation
----------------------------	-----------

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.

IP Address       DHCP       MAC Address       Serial Number       Device Name         192.168.1.30       Enabled       00:20:f7:04:33:03       376200225       Multicolor Strobe	Discovery U	tility		-	- 🗆 X
					-
192.168.1.30         Enabled         00:20:f7:04:33:03         376200225         Multicolor Strobe	IP Address	DHCP	MAC Address	Serial Number	Device Name
	192.168.1.30	Enabled	00:20:f7:04:33:03	376200225	Multicolor Strobe

#### 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: Home Tab

	Network S	IP SSL Multicast Sensor	Audiofiles Events Autoprov Firmv
C	<b>Syber</b>	Data Multico	olor Strobe
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Current Status		Admin Settings	Import Settings
Serial Number:	376200225	Username: admin	Choose File No file chosen
Mac Address:	00:20:f7:04:33:03	Password: ·····	
Firmware Version:	v20.0.0		Import Config
Partition 2:	v20.0.0	Confirm Password: ·····	in port comp
Partition 3:	v20.0.0		
Booting From:	partition 2		Export Cottings
Boot From Other Partition		Save Reboot Toggle Help	Export Settings
			Export Config
P Addressing:	DHCP		
P Address:	192.168.1.30		
Subnet Mask:	255.255.255.0		
Default Gateway:	192.168.1.1		
DNS Server 1:	192.168.1.1		
DNS Server 2:			
SIP Mode:	Enabled		
Multicast Mode:	Disabled		
Event Reporting:	Disabled		
Nightringer:	Disabled		
Primary SIP Server:	Not registered		
Backup Server 1:	Not registered		
Backup Server 2:	Not registered		
Nightringer Server:	Not registered		
ntrusion Sensor:	Triggered		

**3.** Navigate to the SIP Tab.



Figure 6-4: SIP Tab

Home	Device	Network	SIP	SSL	Multicast	Sensor	Audiofi	les	Events	Auto	prov	Firmware
	С	vbe	rDa	ata	Mu	Itic	olo	r S	tr	ob	e	
		<b>y</b> ~~			11101	I UI U	010					
SIP Set	tings					Nightri	nger Set	tinas				
Enable SIP o						SIP Server:	190. 1		wildixstu	dent9.wildixir	com	
Register with	n a SIP Server:	2				SIP User ID:			301	doment	1.00	-
Primary SIP			udent9.wildixi	in.com		SIP Auth ID:			301			
Primary SIP		300				SIP Auth Pa						
Primary SIP	Auth ID: Auth Password:					Re-registrat	ion Interval (in	seconds)	360			
	on Interval (in se											
and the second				-		SIP Rin	ng Strobe	e Setti	ngs			
Backup SIP S						Blink Strobe			0			
Backup SIP I Backup SIP A						Scene	Brightnes	-	Red	Green	Blue	and the second se
A CONTRACT OF CONTRACT	Auth ID: Auth Password:					ADA	✔ 255	Color +	255	255	255	Preview
	on Interval (in se											
				-		SIP Cal	II Strobe	Settin	igs			
Backup SIP S							e during Call:		0			
Backup SIP (						Scene	Brightnes	1	Red	Green	Blue	
Backup SIP / Backup SIP /	Auth ID: Auth Password:					ADA	255	Color +	255	255	255	Preview
	on Interval (in se											
				-		MWI St	robe Set	ttings				
Remote SIP I		5060				Blink Strobe						
Local SIP Po	rt:	5060				Scene	Brightnes	sColor	Red	Green	Blue	
SIP Transpor		UDP 💊				ADA	✔ 255	Color -	255	255	255	Preview
TLS Version: Verify Server		1.2 only	(recommend	ded)	~							
verny serve.	Cerunicator					Nightri	nger Stro	obe Se	etting	s		
Outbound Pr						and the second	e on Nightring:					
Outbound Pr	oxy Port:	0				Scene	Brightnes		Red	Green	Blue	
Use Cisco SI	RST:					ADA	✔ 255	Color +	255	255	255	Preview
Disable rport	t Discovery:											
Unregister of Keep Alive P						Call Dis	sconnec	tion				
Keep Milve .	erioo;	U					all after delay:		_			
						Terminate C	ali aner ueray.	0				
						Audio	Codec S	- la otic				
									on			
						Codec: Auto	/ Select	~				
						RTP Se	ettings					
						RTP Port (ev	-					
						Jitter Buffer				-		
						Save F	Reboot Tog	gle Help				

- 4. Set the **SIP** Server to the FQDN of the Wildix Server.
- 5. Set the **SIP User ID** to the extension number.
- 6. Set the SIP Auth ID to the extension number.
- 7. Set the SIP Auth Password to the auto-generated password from the previous section.
- 8. Set the Keep Alive Period to 0.
- 9. Save.
- 10. Reboot.

Once the unit reboots it should be registered with Wildix.



## 7.0 Using the CyberData Strobe in a Wildix system.

CyberData SIP Strobe is designed to provide visual notification to events. With two SIP extensions the strobe is ideally used in Ring Groups for added notification capability. One benefit of the design is the use of RGB LED's which allow for custom colors for different events.

## 7.1 Creating a Ring Group

Once the call button is registered with Wildix either the paging or Nightringer extension can be added to ring groups

1. From the manage PBX page press the **Dialplan** button

Jse	rs	Gro	ups Phonebooks										Q	Search	
			Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial		Group	Department	License type
2	۲		admin	admin						Internalc	internalc	813	Admin		
-	•		Rob		201		+16145552123			users	users		New		Premium
L	•	-	Todd		202		+16145552122			users	users		Old		Premium
-	•	ZD	Paul		203		+16144841530			users	users		Admin		Premium
L	۲		Cyberdata		300					users	users		Admin		Premium
L	0		Yealink Phone		204					users	users		Default		Essential
L			CyberData Nightringer		301					users	users		Default		Essential

#### Figure 7-1: Select the Dialplan page

2. From the Dialplan page select the Call Groups tab and then press Add.

#### Figure 7-2: Call Groups

N	≝≓⊫	<b>₩ ¢</b> °						
Dialpla	lan rules Call Grou	ps Paging Groups	Timetable / Switch	IVR	Feature codes	General Settings		
							Q Search	
ID *	Name							
1	Phones							
2	PhoneNightringer							
3	PhonePaging							
4	Support							
Showing	ng 1 to 4 of 4 entries Pre	vious 1 Next						20 💙
+ Add	d — Delete 🖋	Edit Edit strateg	/					



Available		Selected	
Search - admin 201 - Rob 202 - Todd 300 - Cyberdata RGB Stro	+	203 - Paul 204 - Yealink Phone 301 - CyberData Nig	

#### Figure 7-3: Call Group Creation Process

*Note:* Spaces cannot be used in the name of the group.

After creating the group, test the group by dialing \*79 and the group number.



## 7.2 Setting up the strobe

Setting the blink scene and color of the strobe is essential for the use of the strobe. For strobe illumination for SIP calls, adjust the strobe settings on the SIP tab.

SIP Rin	g Strob	e Sett	ings			
Blink Strobe	on Ring:					
Scene	Brightness	Color	Red	Green	Blue	
Slow Fade ~	255	Color <del>-</del>	255	200	0	Preview
SIP Call	Strobe	Setti	ngs			
Blink Strobe	during Call:					
Scene	Brightness	Color	Red	Green	Blue	
Fast Fade 🗸	255	Color <del>-</del>	255	35	0	Preview
					·	
MWI Str	obe Se	ttings				
Blink Strobe	on MWI:					
Scene	Brightness	Color	Red	Green	Blue	
				1	1	
Slow Blink V	255	Color 🗸	255	0	0	Preview
Slow Blink ~	255	Color <del>-</del>	255	0	0	Preview
	- (			1-	0	Preview
Nightrir	- (			1-	0	Preview
	nger Str	obe S		1-	0	Preview
Nightrir	nger Str	obe S	ettings	1-	0 Blue	Preview
Nightrir Blink Strobe	n <b>ger Str</b> on Nightring Brightness	obe S	ettings	5	-	Preview

#### Figure 7-4: <u>Strobe Setup</u>

Strobes have two setting customizations, Blink Scene and Color. Blink Scene is the pattern of the blink, and the color is the color shown by the strobe during that blink pattern. There are 5 blink patterns possible Slow Fade, Fast Fade, Slow Blink, Fast Blink, and ADA.

Note: Per ADA requirements, when set to 'ADA' the strobe can only illuminate in white.

Blink Strobe on Ring controls the blink pattern and color for incoming calls.Blink Strobe during Call controls the blink pattern and color for outbound calls.Blink Strobe on MWI controls the blink pattern and color for Message Waiting Indicator.Blink Strobe on Nightring controls the blink pattern and color for the Nightringer.



## 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 Wildix PBX solution may render this document obsolete. We welcome and encourage documentation feedback to ensure continued applicability.