



Wildix Configuration Guide: SIP Strobes

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Revision Information

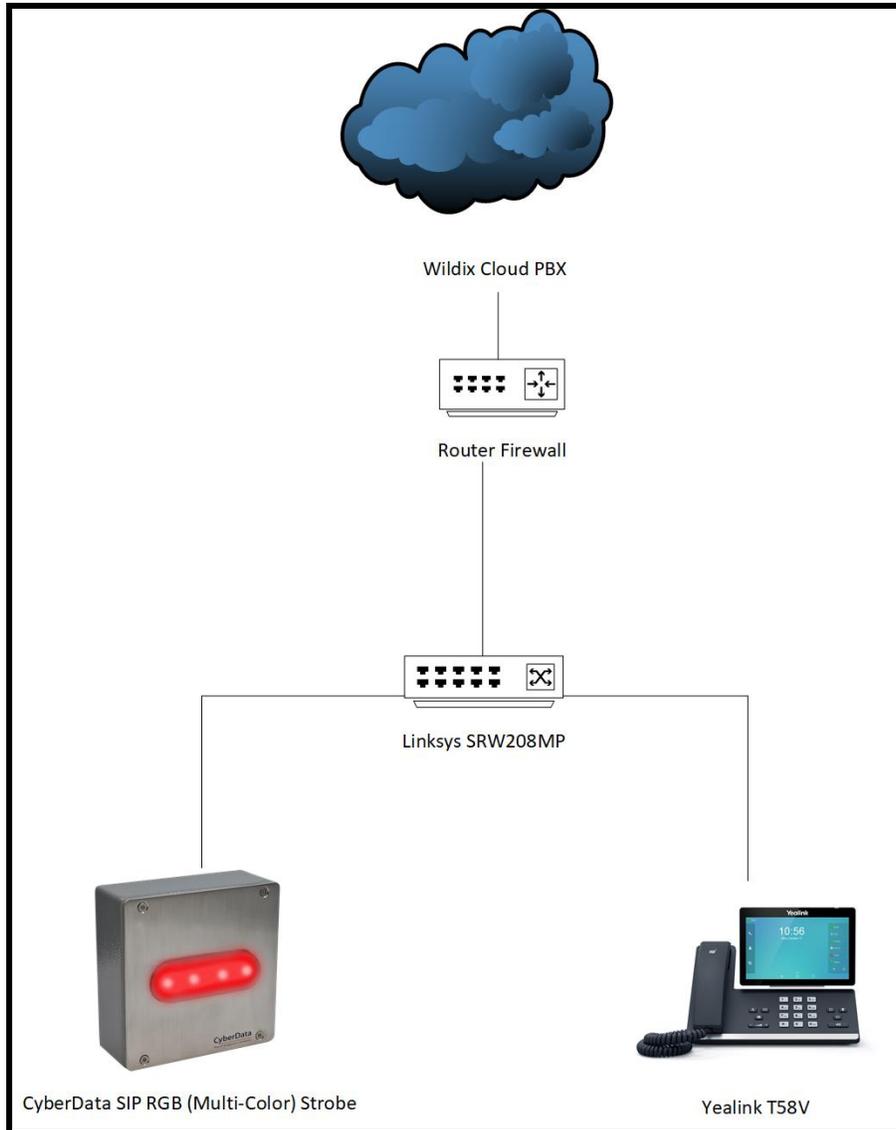
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Table of Contents

Table of Contents	3
1.0 Setup Diagram.....	4
2.0 Test Setup Equipment.....	5
3.0 Before You Start	6
4.0 Configuration Procedure: Extension Creation	7
5.0 Configuration Procedure: Setting up the Paging Extension	12
6.0 Configuration Procedure: Setting up the Nightringer Extension	16
7.0 Using the CyberData Strobe in a Wildix system.	19
7.1 Creating a Ring Group.....	19
7.2 Setting up the strobe	21
8.0 Contact CyberData Corporation.....	22

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: Setup Equipment

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
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 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 (011376)

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

1. Log into Wildix.

Figure 4-1: Log into Wildix

W

Welcome
to Wildix Collaboration

Login

Password

Remember me

Login

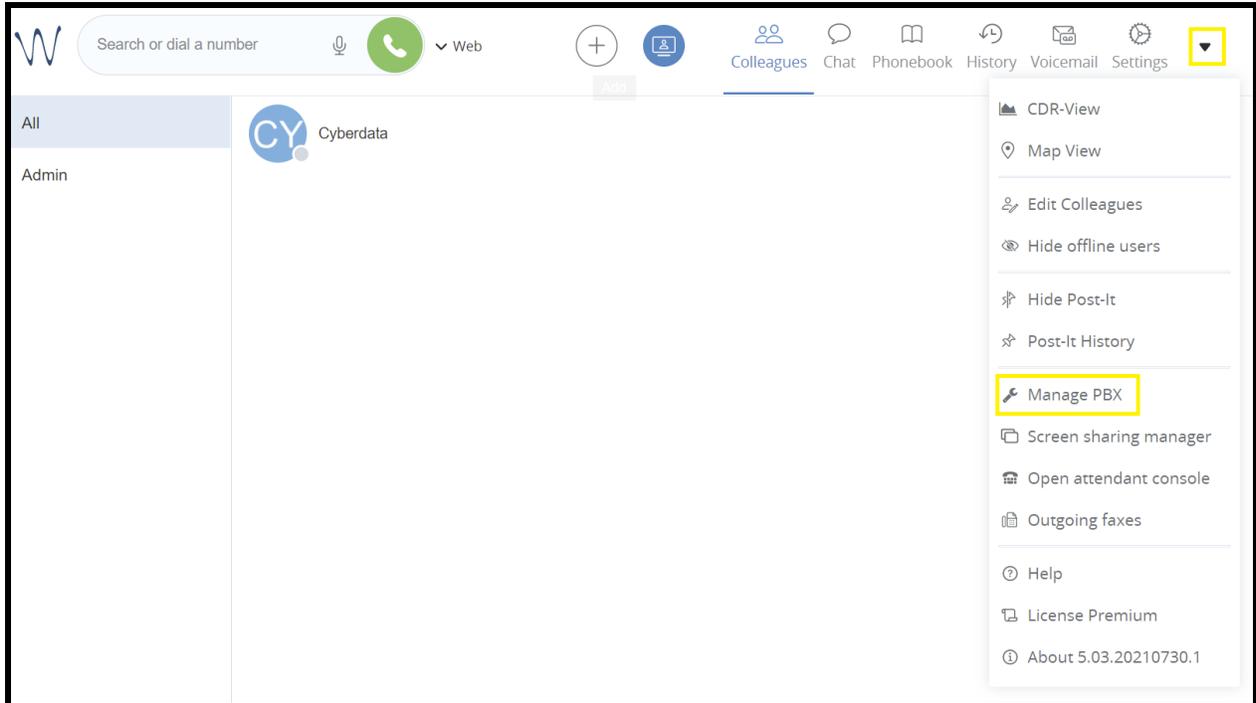
Login with

G

Windows

- From the landing page select the **Other** down arrow button and pick **Manage PBX..**

Figure 4-2: Manage PBX page



- On the **Manage PBX** page press the + button to add a new extension. .

Figure 4-3: Manage PBX

	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
admin	admin	admin						internalc...	internalc...	Admin		
Rob			201		+1614552123			users	users	New		Premium
Todd			202		+1614552122			users	users	Old		Premium
ZD Paul			203		+16144841530			users	users	Admin		Premium
Cyberdata			300					users	users	Admin		Premium
Yealink Phone			204					users	users	Default		Essential
CyberData Nightringer			301					users	users	Default		Essential

Below the table, there is a row of buttons: a highlighted '+' button, an 'Edit' button, a '-' button, a 'Set passwords' button, an 'Edit preferences' button, and a 'Send Welcome Message' button.

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

Figure 4-4: Extension creation

Add [Close]

User [v]

Full Name []

Login []

Extension []

Fax []

Office []

Email []

Mobile []

Dialplan users (Internal dialplan) [v]

Fax dialplan users (Internal dialplan) [v]

Language En-us [v]

Group Default [v]

Department []

License type Essential [v]

[Ok] [Cancel]

5. Make sure the drop-down menu has **User** selected.
6. Set the full name to the location of the strobe.
7. 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 4-5: Filled Extension Popup

The screenshot shows a window titled "Edit" with a close button (X) in the top right corner. The window contains the following fields and values:

- Dropdown menu: User
- Full Name: Cyberdata RGB Strobe
- Login: (empty)
- Extension: 300
- Fax: (empty)
- Office: (empty)
- Email: (empty)
- Mobile: (empty)
- Dialplan: users (Internal dialplan)
- Fax dialplan: users (Internal dialplan)
- Language: En-us
- Group: Admin
- Department: (empty)
- License type: Premium

Buttons: Ok, Cancel

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

Figure 4-6: Extension Created

	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
admin	admin	admin						internalc...	internalc...	Admin		
Rob			201		+16145552123			users	users	New		Premium
Todd			202		+16145552122			users	users	Old		Premium
ZD Paul			203		+16144841530			users	users	Admin		Premium
Cyberdata RGB Strobe			300					users	users	Admin		Premium
Yealink Phone			204					users	users	Default		Essential
CyberData Nightringer			301					users	users	Default		Essential

10. After selecting the extension, press **Set Passwords**.

11. Click on the **Generate** button to create a password.

Figure 4-7: Set Passwords Popup

Set passwords ✕

WEB

SIP/VoIP

12. 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

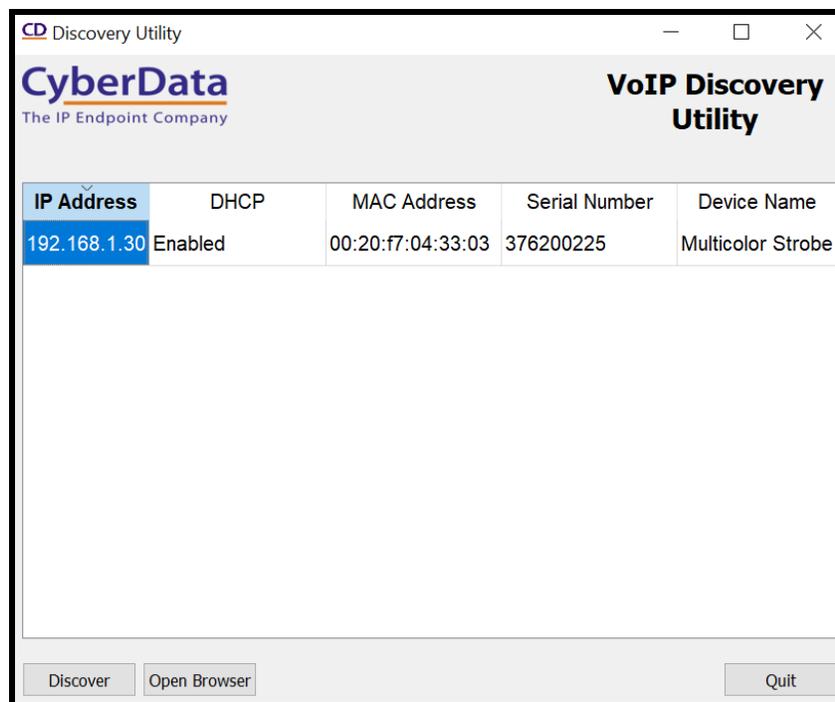
If you are configuring through the web interface, use the following steps to login to the web interface of your CyberData device.

Table 5-1: Setting Name correlation

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

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.

Figure 5-1: CyberData Discovery Utility

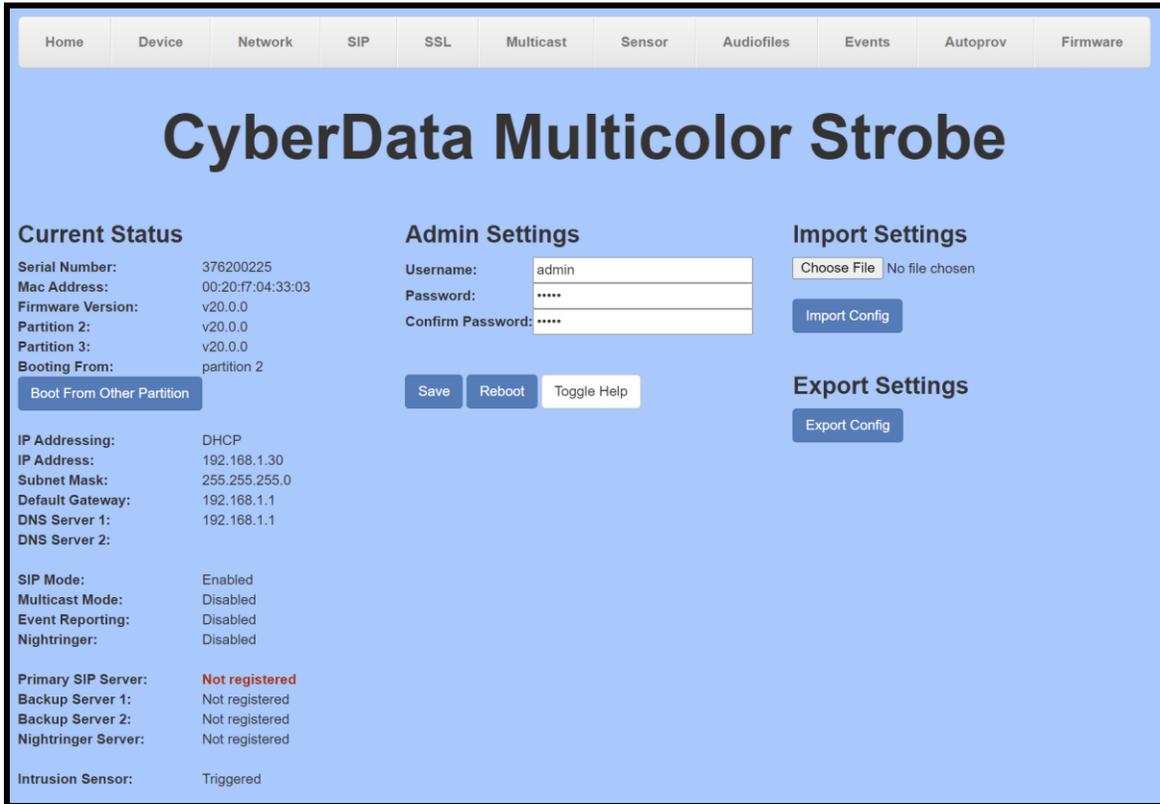


2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

Figure 5-2: Home Tab



3. Navigate to the SIP tab.

Figure 5-3: SIP Tab

The screenshot displays the 'SIP Tab' configuration page for a CyberData Multicolor Strobe device. The page is organized into several sections:

- SIP Settings:** Includes checkboxes for 'Enable SIP operation' and 'Register with a SIP Server'. Fields include 'Primary SIP Server' (wildixstudent9.wildixin.com), 'Primary SIP User ID' (300), 'Primary SIP Auth ID' (300), 'Primary SIP Auth Password' (masked), and 'Re-registration Interval (in seconds)' (360). Backup settings for two servers are also present.
- Nightringer Settings:** Fields for 'SIP Server', 'SIP User ID', 'SIP Auth ID', 'SIP Auth Password', and 'Re-registration Interval (in seconds)' (360).
- SIP Ring Strobe Settings:** A table for configuring strobe scenes (ADA, Brightness, Color, Red, Green, Blue) with a 'Preview' button.
- SIP Call Strobe Settings:** Similar table for call strobe configurations.
- MWI Strobe Settings:** Similar table for MWI strobe configurations.
- Nightringer Strobe Settings:** Similar table for nightringer strobe configurations.
- Call Disconnection:** 'Terminate Call after delay' field set to 0.
- Audio Codec Selection:** 'Codec' dropdown set to 'Auto Select'.
- RTP Settings:** 'RTP Port (even)' (10500) and 'Jitter Buffer' (50) fields.

At the bottom, there are 'Save', 'Reboot', and 'Toggle Help' buttons.

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 - Registered

The screenshot displays the configuration interface for a CyberData Multicolor Strobe device. At the top, a navigation bar includes tabs for Home, Device, Network, SIP, SSL, Multicast, Sensor, Audiofiles, Events, Autoprov, and Firmware. The main title is "CyberData Multicolor Strobe".

Current Status

Serial Number:	376200225
Mac Address:	00:20:f7:04:33:03
Firmware Version:	v20.0.0
Partition 2:	v20.0.0
Partition 3:	v20.0.0
Booting From:	partition 2

Admin Settings

Username:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
Confirm Password:	<input type="password" value="*****"/>

Import Settings

No file chosen

Export Settings

IP Addressing: DHCP

IP 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: Registered

Backup Server 1: Not registered

Backup Server 2: Not registered

Nightringer Server: Not registered

Intrusion Sensor: Triggered

6.0 Configuration Procedure: Setting up the Nightringer Extension

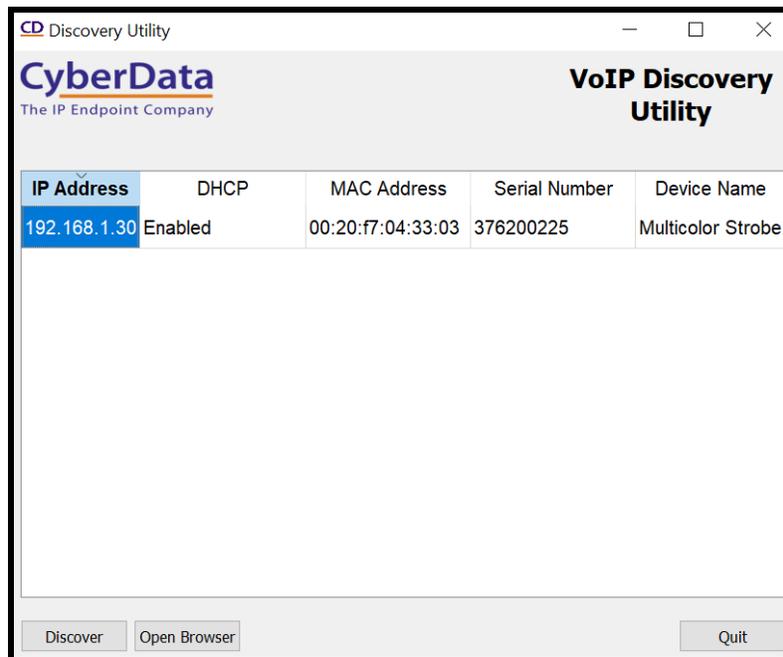
If you are configuring through the web interface, use the following steps to login to the web interface of your CyberData device.

Table 6-1: Setting Name correlation

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

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.

Figure 6-1: CyberData Discovery Utility

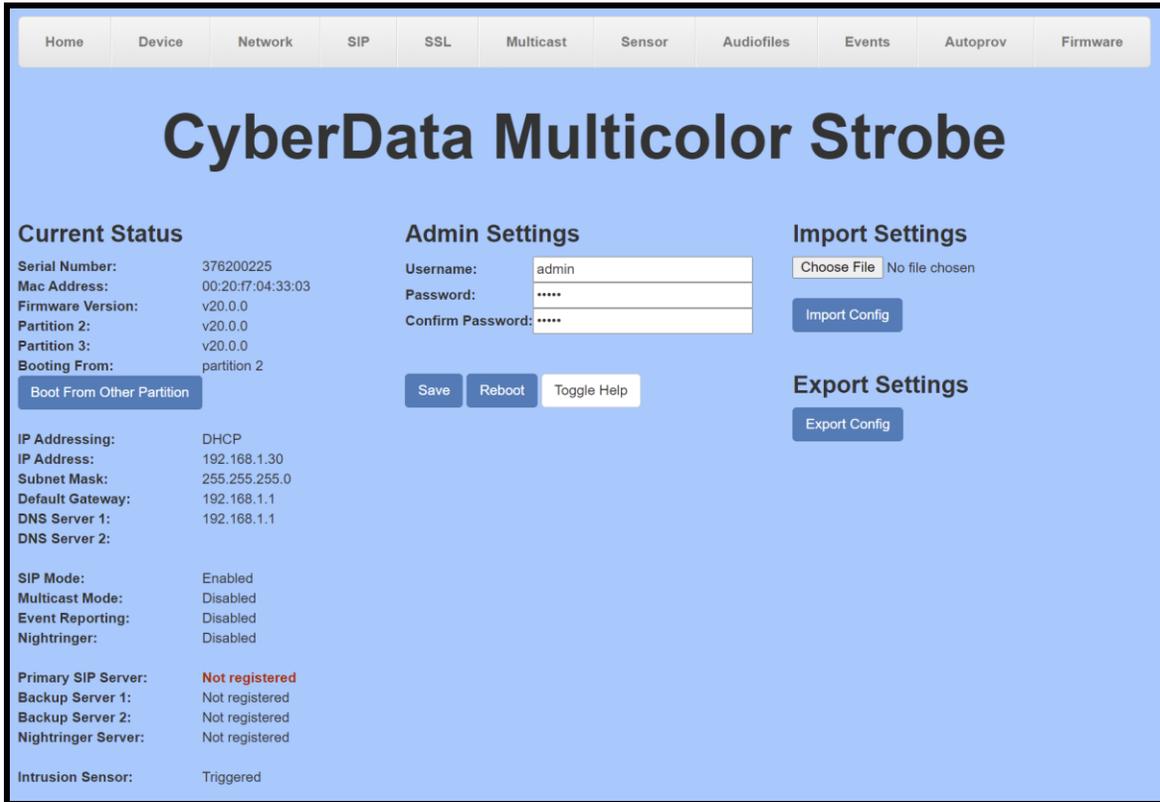


2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

Figure 6-2: Home Tab



3. Navigate to the SIP Tab.

Figure 6-4: SIP Tab

The screenshot shows the 'SIP Tab' configuration page for a CyberData Multicolor Strobe. The page has a navigation bar at the top with tabs for Home, Device, Network, SIP (selected), SSL, Multicast, Sensor, Audiofiles, Events, Autoprovisioning, and Firmware. The main title is 'CyberData Multicolor Strobe'. The configuration is organized into several sections:

- SIP Settings:** Includes checkboxes for 'Enable SIP operation' and 'Register with a SIP Server'. Fields for 'Primary SIP Server' (wildixstudent9.wildix.com), 'Primary SIP User ID' (300), 'Primary SIP Auth ID' (300), and 'Primary SIP Auth Password' (masked). A 'Re-registration Interval' of 360 seconds is set. Backup SIP server information is also present.
- Nightringer Settings:** Fields for 'SIP Server' (wildixstudent9.wildix.com), 'SIP User ID' (301), 'SIP Auth ID' (301), and 'SIP Auth Password' (masked). A 'Re-registration Interval' of 360 seconds is set.
- SIP Ring Strobe Settings:** A table for configuring strobe scenes. The 'ADA' scene is selected with a brightness of 255 and color set to 'Color'. Preview buttons are available for each scene.
- SIP Call Strobe Settings:** Similar to Ring Strobe settings, with 'ADA' scene selected and brightness at 255.
- MWI Strobe Settings:** Similar to Ring Strobe settings, with 'ADA' scene selected and brightness at 255.
- Nightringer Strobe Settings:** Similar to Ring Strobe settings, with 'ADA' scene selected and brightness at 255.
- Call Disconnection:** A field for 'Terminate Call after delay' set to 0.
- Audio Codec Selection:** A dropdown menu set to 'Auto Select'.
- RTP Settings:** Fields for 'RTP Port (even)' (10500) and 'Jitter Buffer' (50).

At the bottom of the page are buttons for 'Save', 'Reboot', and 'Toggle 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

Figure 7-1: Select the Dialplan page

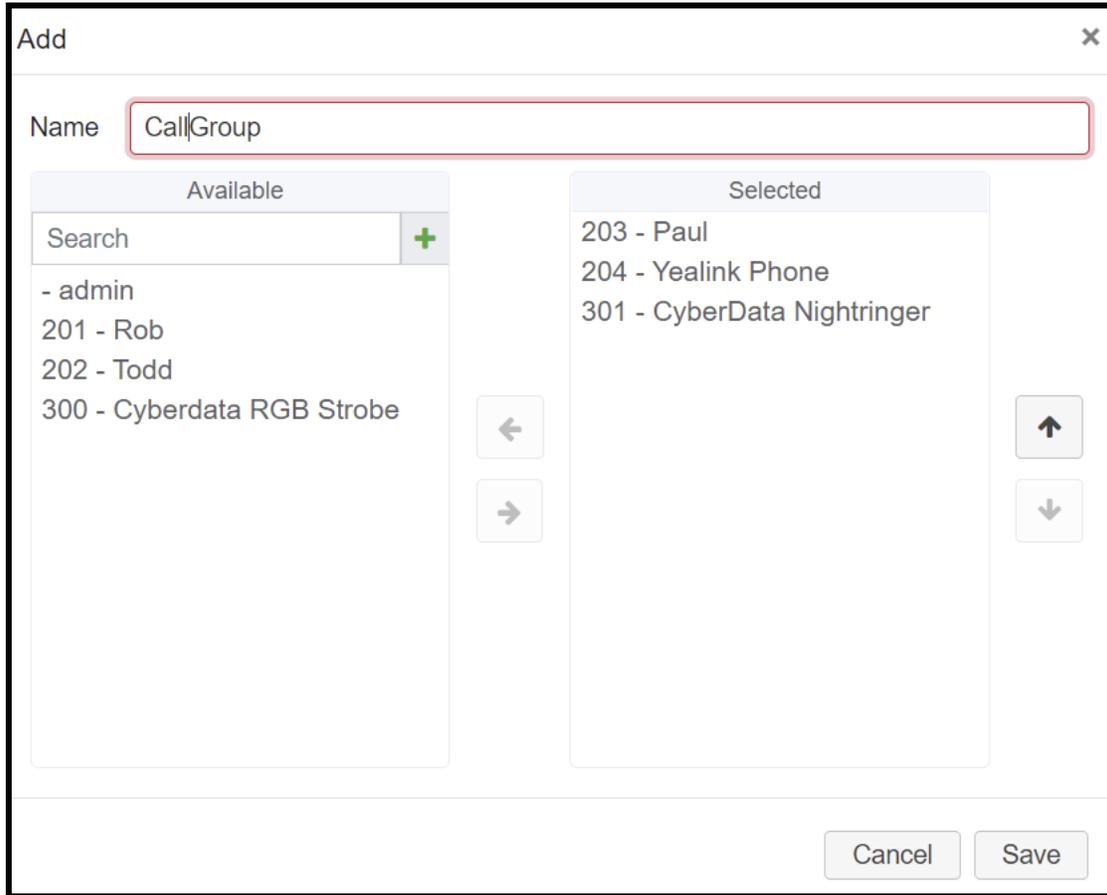
	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
	admin	admin						Internalc...	Internalc...	Admin		
	Rob		201		+16145552123			users	users	New		Premium
	Todd		202		+16145552122			users	users	Old		Premium
	ZD Paul		203		+16144841530			users	users	Admin		Premium
	Cyberdata		300					users	users	Admin		Premium
	Yealink Phone		204					users	users	Default		Essential
	CyberData Nightringer		301					users	users	Default		Essential

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

Figure 7-2: Call Groups

ID	Name
1	Phones
2	PhoneNightringer
3	PhonePaging
4	Support

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.

Figure 7-4: Strobe Setup

The screenshot displays four sections for configuring strobe settings:

- SIP Ring Strobe Settings:**
 - Blink Strobe on Ring:
 - Scene: Slow Fade
 - Brightness: 255
 - Color: Red
 - Red: 255
 - Green: 200
 - Blue: 0
 - Preview button
- SIP Call Strobe Settings:**
 - Blink Strobe during Call:
 - Scene: Fast Fade
 - Brightness: 255
 - Color: Red
 - Red: 255
 - Green: 35
 - Blue: 0
 - Preview button
- MWI Strobe Settings:**
 - Blink Strobe on MWI:
 - Scene: Slow Blink
 - Brightness: 255
 - Color: Red
 - Red: 255
 - Green: 0
 - Blue: 0
 - Preview button
- Nightringer Strobe Settings:**
 - Blink Strobe on Nightring:
 - Scene: Fast Blink
 - Brightness: 255
 - Color: Red
 - Red: 255
 - Green: 5
 - Blue: 100
 - Preview button

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 [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

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.