CyberData
The IP Endpoint Company

Leap Telecom Configuration Guide: SIP Strobes

Document Part # 931956A

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Revision Information

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1.0 Supported CyberData Products

This section describes the products used for interoperability testing with Leap Telecom.

Table 1-1: Supported CyberData Products

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
CYBERDATA SIP RGB (MULTI-COLOR) STROBE	011376	20.2.0 or greater
CYBERDATA SIP OUTDOOR RGB (MULTI-COLOR) STROBE	011479	20.2.0 or greater

2.0 Before You Start

Network Advisories

Leap Telecom uses a Fully Qualified Domain Name (FQDN) for the SIP server. The CyberData strobe needs to perform a DNS query to resolve the IP address of SIP Server's FQDN.

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

- UDP 5060 (SIP)
- TCP 5060, 5061 (SIP)
- UDP 10500 (RTP)

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

The strobe's paging and Nightringer extension uses SIP port 5060 to send and receive SIP messages.

SIP ports 5060 and RTP port 10500 are the default values on all noted firmware levels. Alternatively, SIP ports are configurable on the **SIP** page of the web interface. The RTP port setting on the **SIP** page is used for both extensions.

Product Documentation and Utilities

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

SIP RGB (Multi-Color) Strobe:
https://www.cyberdata.net/collections/sip/products/011376

SIP Outdoor RGB (Multi-Color) Strobe:
https://www.cyberdata.net/collections/sip/products/011479

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.

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3.0 Setting up a Device in the Leap Tel System

This section outlines how to create a device in the Leap Tel system.

1. Login to the Leap system
2. Mouse over instances and select the site/instance where the device will be used.

Figure 3-1: Instance Selection

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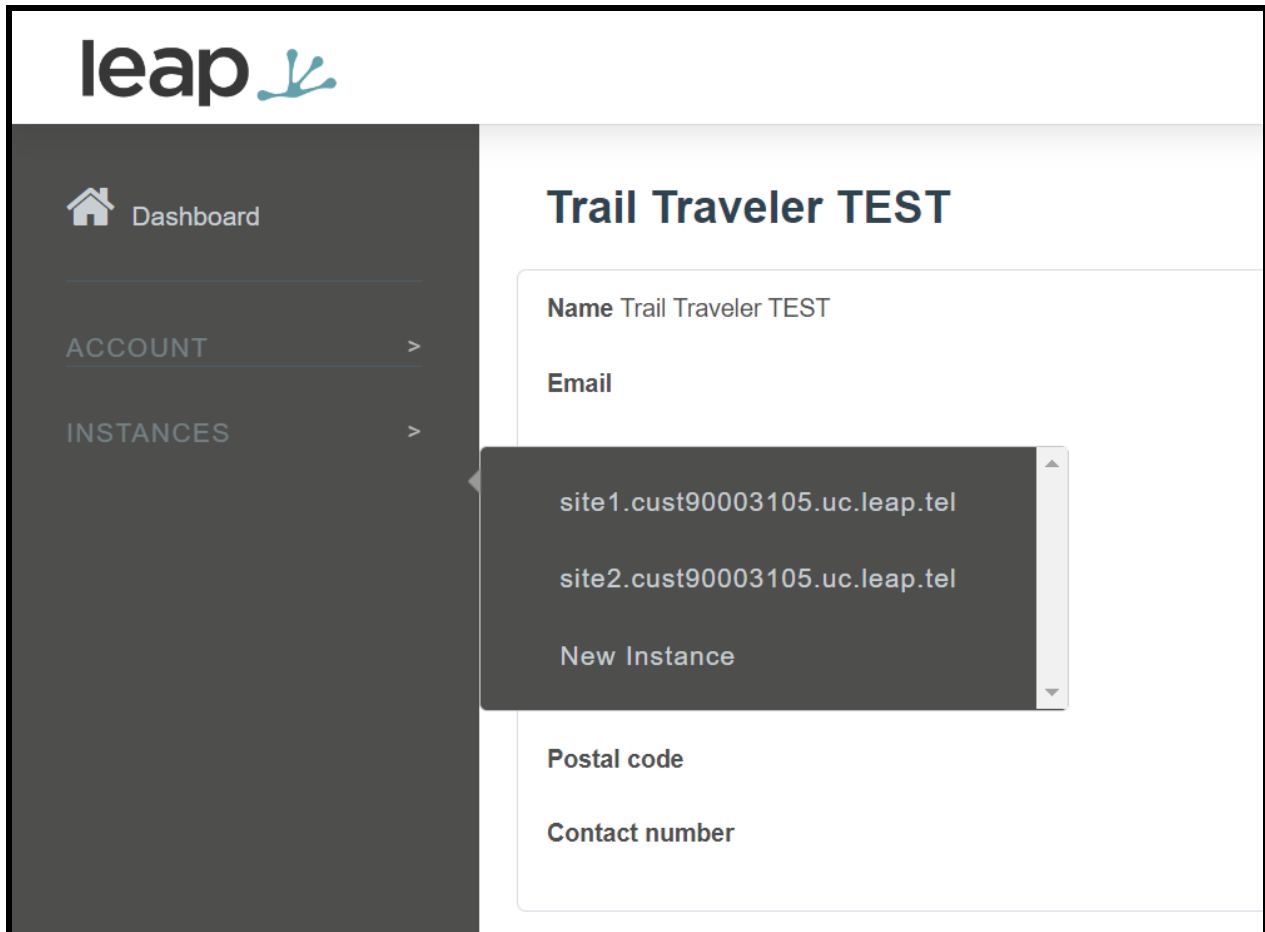
3. From the site page select **Devices**, then press the **+** button to create a new device.

Figure 3-2: Workspaces Page

Devices   8 -

Search: [   ]

Name	Login	SIP Caller ID name	SIP Caller ID number	Edit	Delete	Origins	Registration Status	Routing
Ted Home Phone	tedxxx	Traveler Traveler		✏️	🗑️	⬍	●	📙
Home Speaker	cyb3r	Traveler Traveler		✏️	🗑️	⬍	●	📙
Test device	fubar	Traveler Traveler		✏️	🗑️	⬍	●	📙
Cyber Intercom	Intercom	Traveler Traveler		✏️	🗑️	⬍	●	📙
CyberNight	CyberNight	Traveler Traveler		✏️	🗑️	⬍	●	📙
CallButton	CallButton	Traveler Traveler		✏️	🗑️	⬍	●	📙
PaulSoftphone	PaulSoftphone	Traveler Traveler		✏️	🗑️	⬍	●	📙
KERRY'S DESK PHONE	kgarrison123	Traveler Traveler		✏️	🗑️	⬍	🟢	📙

Show 1 - 8 of 8   ‹‹   ‹   ›   ››

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4. Set the **Name** of the device, being descriptive can help for device management in the future.
5. Set the **Login** field as desired, CyberData recommends not using spaces, hyphens, or underscores.
6. Press **Save** at the bottom of the page.

Figure 3-3: <u>Add a Device</u>

New device

Name ⓘ

CyberData SIP RGB Strobe

Login ⓘ

Strobe

Password ⓘ   REGENERATE PASSWORD

mduPbkijDlJkP2QgbtE0

7. After pressing save the page will refresh, click on **Extensions**.
8. In the **Extensions** section press the + to create a new extension.

Figure 3-4: <u>Pick a device</u>

<u>Extensions</u>   9   -

Search:

Name	Number	Edit	Delete	Origins	Routing
CyberData Ring Group	3004	✏	🗑	⌖	📖
Kerry Home Speaker	4001	✏	🗑	⌖	📖
Cyber Intercom	3006	✏	🗑	⌖	📖
CyberNight	3008	✏	🗑	⌖	📖
CallButton	3010	✏	🗑	⌖	📖
PaulSoftphone	3011	✏	🗑	⌖	📖
Sales Conference Room Ext	4002	✏	🗑	⌖	📖
Kerry	1002	✏	🗑	⌖	📖
Ted	2005	✏	🗑	⌖	📖

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9. In the New extension window set a **Name** for the extension. CyberData recommends having the name correlate to the device that will use the extension.
10. Set the **Number** as desired.
11. Set the **Destination** to the **Name** of the device set in step 4.
12. Press **Save.**

Figure 3-5: New Extension Creation

Configuration on the Leap Tel side is now complete and the CyberData device is ready to be configured. Values set on the Device tab are required for registration, CyberData recommends opening up the Device created in steps 3 - 6 for ease of copy and pasting.

4.0 Setting up the CyberData Strobe

This section outlines the required sections for the CyberData device and how the credentials supplied from Leap correlate to the CyberData settings.

Table 4-1: SIP Credential Explanation

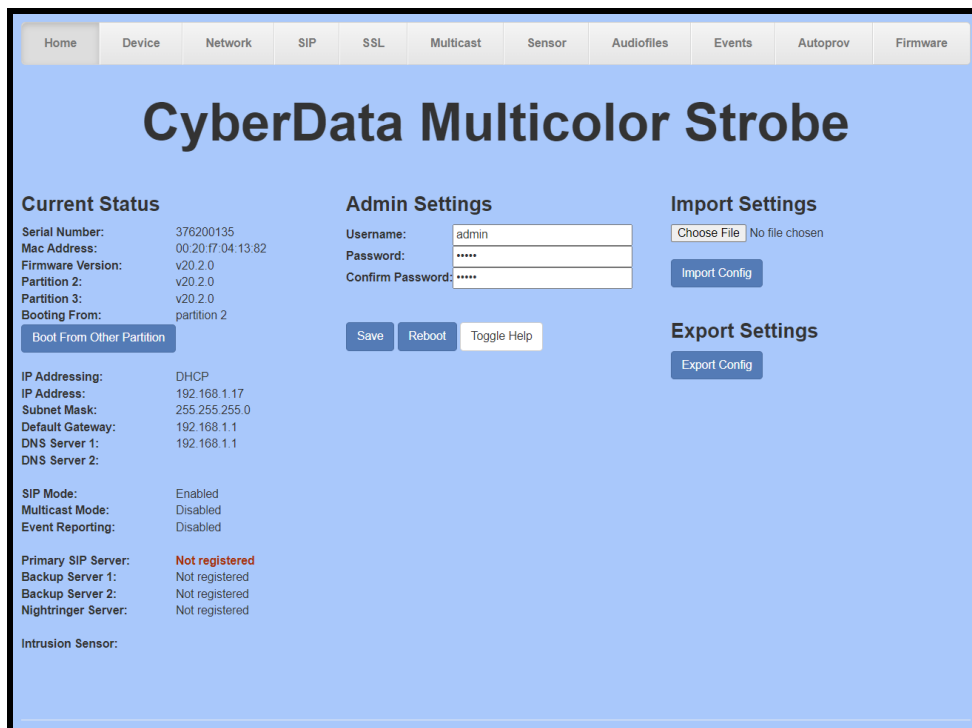| Leap Credential	CyberData Setting
Instance	Primary SIP Server
Device Login	Primary SIP User ID
Device Login	Primary SIP Auth ID
Device Password	Primary SIP Auth Password

CyberData's default login credentials are:
Username: admin
Password: admin

1. Log into the web interface of the CyberData device.

Figure 4-1: Home Tab

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2. Navigate to the SIP tab.
3. Set the **Primary SIP Server** field to the FQDN of the Instance.
4. Set the **Primary SIP User ID** to the Device Login set in step 3-5.
5. Set the **Primary SIP Auth ID** to the Device Login set in step 3-5.
6. Set the **Primary SIP Auth Password** to the Device Password.

Note: Leap Tel supports both UDP and TCP for SIP Transport. Please use either of the transport protocols, during testing CyberData found that TCP preforms best.

7. Save and Reboot.

Figure 4-2: SIP Tab

If the credentials have been entered correctly the device should now be registered with Leap. This can be verified on the home tab of the web interface or on the Leap Device page.

Figure 4-3: Home Tab – Registered

5.0 Setting the blink options

CyberData strobes are designed to illuminate on an incoming call or multicast stream. The strobe uses RGBW LED's and this allows any custom colors and ADA compliance from a single device. The strobe uses 'Blink Scenes' or illumination patterns for the strobe.

- ADA
- Slow Fade
- Fast Fade
- Slow Blink
- Fast Blink

The strobe can then have a color set for the notification, CyberData has preset colors available in a drop-down menu or any custom value can be used with 0-255 values for Red, Green, and Blue.

Figure 5-1: Set the Dial out Extension

5.1 Setting up a Multicast priority

CyberData devices support multicast that works in a priority system, where a higher priority will always supersede a lower priority. For example, a multicast page to priority 4 would play over a background music stream at priority 0. SIP Calls are treated as priority 4.5.

Figure 5-2: Multicast Tab

Priority	Address	Port	Name	Relay	Scene	Brightness	Color	Red	Green	Blue	
0	239.168.3.1	2000	Background Music	☐	ADA	255	Color ▾	255	255	255	Preview
1	239.168.3.2	3000	MG1	☐	Fast Blink	255	Color ▾	70	0	128	Preview
2	239.168.3.3	4000	MG2	☐	Slow Blink	255	Color ▾	255	0	0	Preview
3	239.168.3.4	5000	MG3	☐	Fast Fade	255	Color ▾	255	35	0	Preview
4	239.168.3.5	6000	General Announcements	☐	Slow Fade	255	Color ▾	255	35	0	Preview
5	239.168.3.6	7000	MG5	☐	ADA	255	Color ▾	255	255	255	Preview
6	239.168.3.7	8000	MG6	☐	ADA	255	Color ▾	255	255	255	Preview
7	239.168.3.8	9000	MG7	☐	ADA	255	Color ▾	255	255	255	Preview
8	239.168.3.9	10000	MG8	☐	ADA	255	Color ▾	255	255	255	Preview
9	239.168.3.10	11000	Emergency	☐	ADA	255	Color ▾	255	255	255	Preview

Polycom Default Channel   1
Polycom Priority Channel   24
Polycom Emergency Channel   25
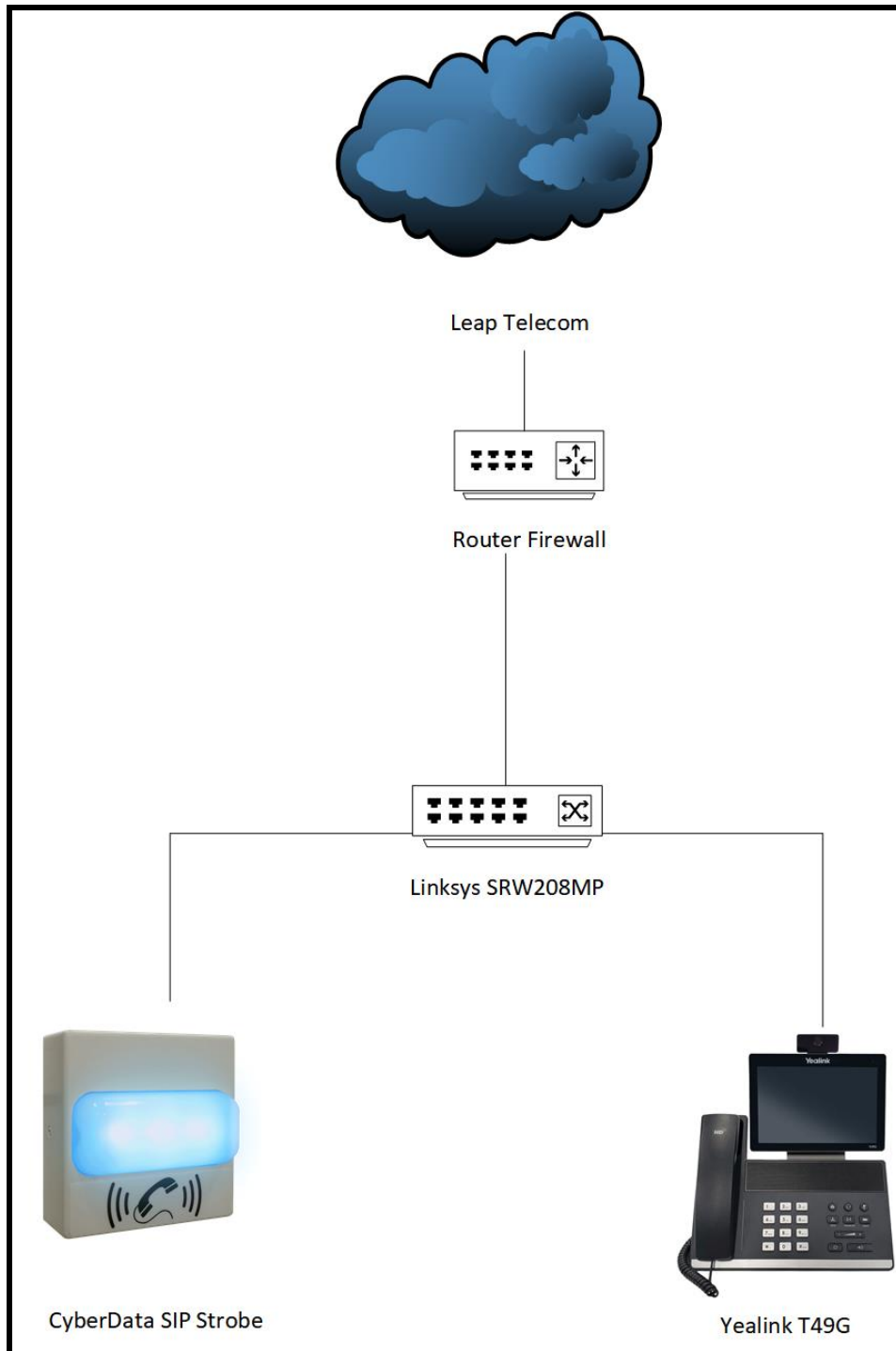
SIP calls are considered priority 4.5

Port range can be from 2000-65535

Priority 9 is the highest and 0 is the lowest

A higher priority audio stream will always supersede a lower one

6.0 Setup Diagram

Figure 6-1: Interoperability Test Infrastructure

7.0 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 Leap Telecom solution may render this document obsolete. We welcome and encourage documentation feedback to ensure continued applicability.