



Webex Calling Configuration Guide: SIP Strobes

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Revision Information

6/29/2022 - Initial Release

WEBEX CALLING CONFIGURATION GUIDE: SIP STROBES





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1.0 Supported CyberData Products

This section describes the products used for interoperability testing with Webex Calling.

Table 1-1: <u>Supported CyberData Products</u>

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



2.0 Before You Start

Network Advisories

Webex Calling uses a Fully Qualified Domain Name (FQDN) for the SIP server and Outbound Proxy addresses. The CyberData strobe needs to perform a DNS query to resolve the IP address of Webex's Outbound Proxy FQDN.

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

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

The strobe will need to traverse the public internet in order to operate with Webex Calling 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.



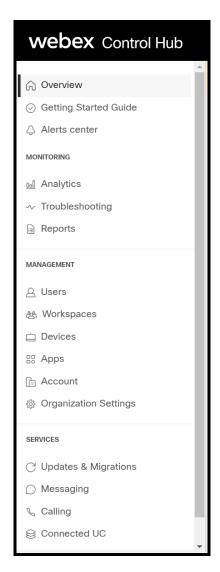
3.0 Setting up a Workspace in Webex Calling

This section outlines how to create a Webex Calling user in the Webex Control Hub (CH). This will provide the credentials to then setup the CyberData device.

<u>Cisco has detailed instructions in the Cisco Webex Help Center in the Add your customer</u> managed device article.

- 1. Login to Webex Control Hub as the administrator.
- 2. From the overview page select Workspaces.

Figure 3-1: Overview Side Bar





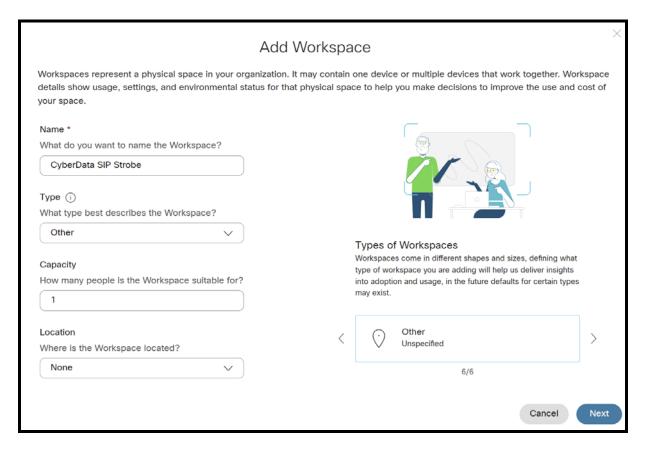
3. From the Workspaces page select the Add Workspace button.

Figure 3-2: Workspaces Page



4. On the Add Workspace popup create a Workspace for the strobe.

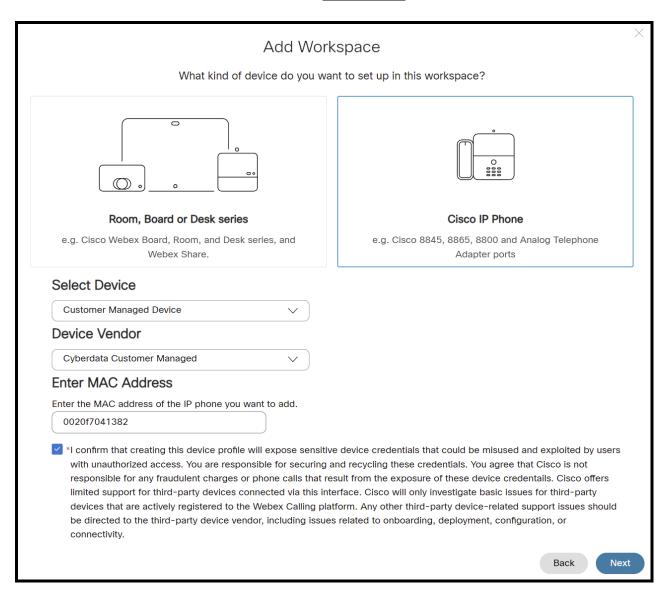
Figure 3-3: Create a Workspace





5. After creating the workspace select Cisco IP Phone.

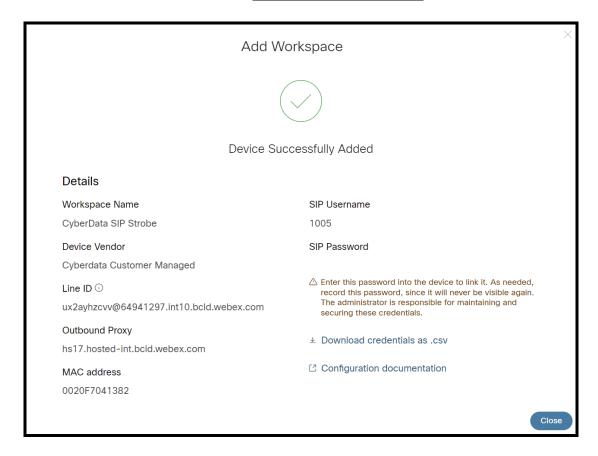
Figure 3-4: Pick a device



- 6. Set the device to Customer Managed Device.
- 7. Select CyberData Customer Managed as the Device Vender.
- **8.** Enter the MAC address of the CyberData device.
- 9. Press Next to continue.



Figure 3-5: Device Successfully Added



Note: The password has been obscured.

10. Make sure to press **Download credentials as .csv** because this page is only shown once.



4.0 Setting up the CyberData SIP Strobe

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

Table 4-1: SIP Credential Explanation

Webex Calling Credential	CyberData Setting
2 nd Half of Line ID	Primary SIP Server
1 st Half of Line ID	Primary SIP User ID
SIP Username	Primary SIP Auth ID
SIP Password	Primary SIP Auth Password
Outbound Proxy	Outbound Proxy

Note: CyberData devices do not support 'Line IDs' and the ID provided by Webex must be broken up to be used by the CyberData device. Webex provides the line ID in the following format: "UserID@SIP_Server_Address". Everything before the @ symbol is used as CyberData's Primary SIP User ID and everything after the @ symbol is used as the Primary SIP Server.

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



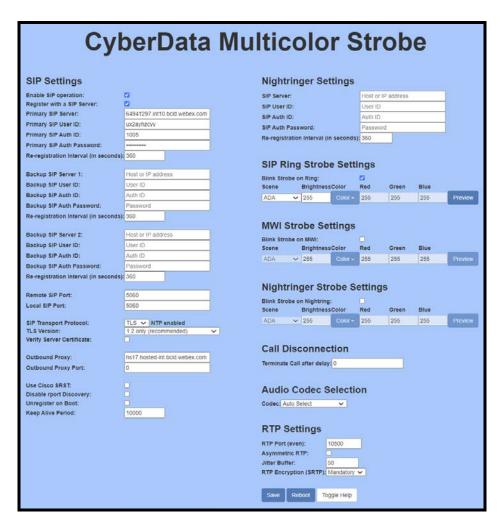


- 2. Navigate to the SIP tab.
- 3. Set the **Primary SIP Server** field to the 2nd half of the Line ID.
- **4.** Set the **Primary SIP User ID** to the 1st half of the Line ID.

Note: Do not add an @ to SIP Server or User ID.

- 5. Set the Primary SIP Auth ID to the Extension Number.
- 6. Set the Primary SIP Auth Password to the SIP Password.
- 7. Set the Outbound Proxy to the Outbound Proxy.
- 8. Leave the Outbound Proxy port set to 0.
- 9. Set the SIP Transport to TLS.
- **10.** Ensure **TLS Version** is set to **1.2 Only (Recommended)**.
- 11. Set RTP Encryption to Mandatory.
- 12. Save and Reboot.

Figure 4-2: SIP Tab



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

Figure 4-3: Home Tab – Registered





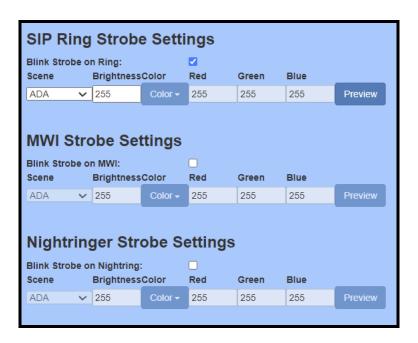
5.0 Setting the blink options

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.

Audiofiles CyberData Multicolor Strobe **Multicast Settings** Enable Multicast Operation:☑ Relay Scene Priority Address Port Name Brightness Color Red Green Blue 2000 255 ADA 255 255 Preview 239.168.3.1 Background Music 255 239.168.3.2 3000 MG1 Fast Blink ~ 0 Preview 239.168.3.3 4000 MG2 Slow Blink ~ Color -0 239 168 3 4 5000 MG3 Fast Fade v 255 35 239.168.3.5 6000 5 239.168.3.6 7000 MG5 ADA 255 255 255 Preview MG6 255 255 6 239.168.3.7 8000 ADA 255 255 239,168,3,8 9000 MG7 255 255 8 239.168.3.9 10000 ADA 255 255 Preview 11000 255 255 239,168,3,10 Emergency ∨ 255 Color - 255 ADA Preview Polycom Default Channel

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

Figure 5-2: Multicast Tab

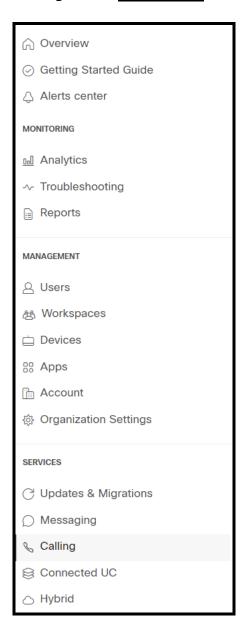


5.2 Creating a paging group in Webex Calling

Webex calling supports paging groups that allow one-way pages to up to 75 devices at the same time. This makes products like VoIP Speakers easy to page with in the Cisco Webex calling environment. Follow these steps to setup a paging group.

1. Select Calling from the Services sub section in the sidebar.

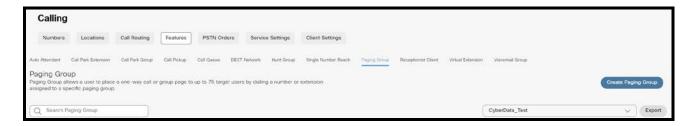
Figure 5-3: Select Calling





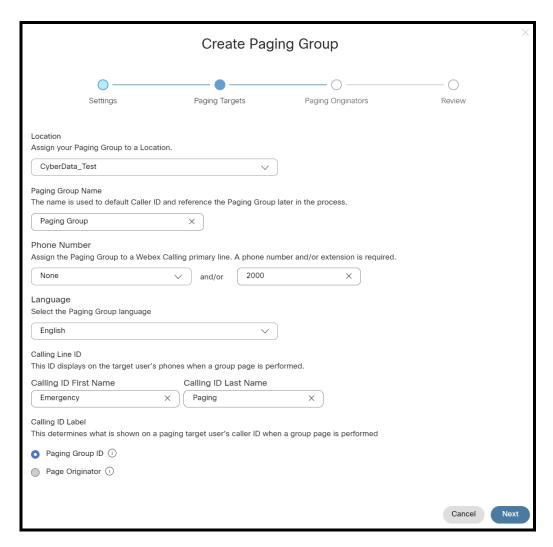
2. From the Calling page select Features and then Paging Group.

Figure 5-4: Calling Settings



3. Press Create Paging Group to begin the paging group creation process.

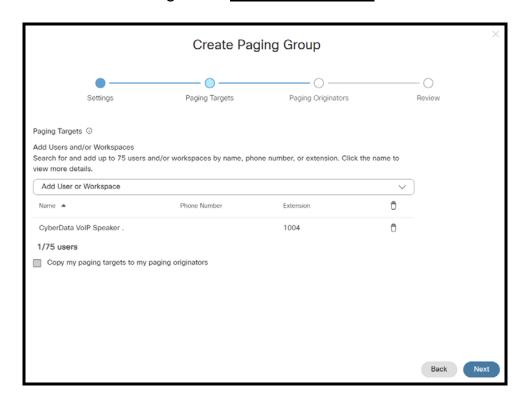
Figure 5-5: Naming a Paging Group





- 4. Set the location of the paging group.
- 5. Name the paging group.
- **6.** Set a phone number and/or an extension number.
- **7.** Pick the desired language for the group.
- 8. Set the Calling ID Name.
- **9.** Pick if the group ID or Page Originator shows up on the caller ID.
- 10. Press Next.

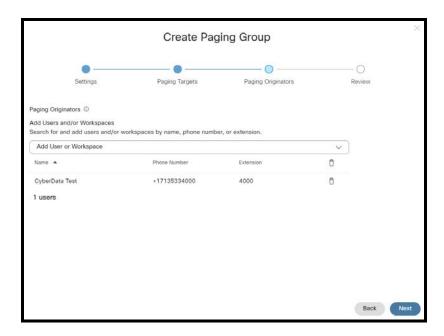
Figure 5-6: Set the Paging Targets



- 11. Choose what devices are in the paging group.
- 12. Press Next.

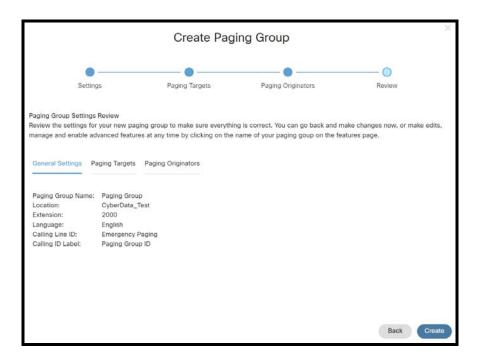


Figure 5-7: Paging Originators



- 13. Choose what numbers can page to the paging group.
- 14. Press Next.
- **15.** Review the settings and press **Create**.

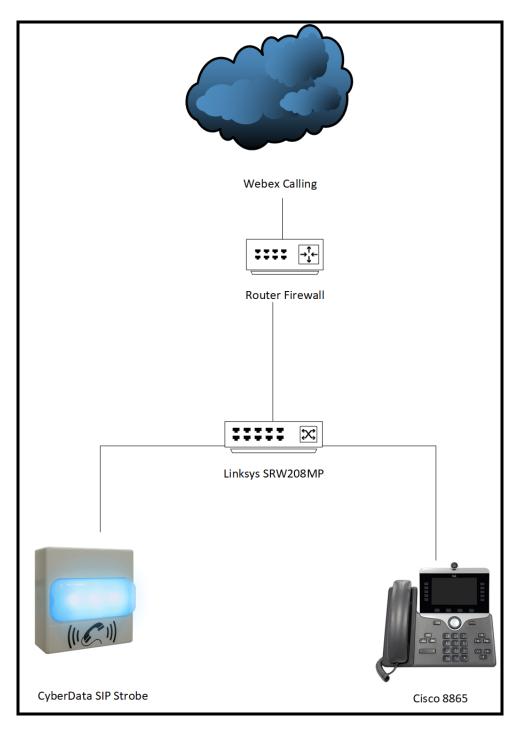
Figure 5-8: Review Settings





6.0 Setup Diagram

Figure 6-1: Interoperability Test Infrastructure





7.0 FAQ

Why is the device registering to a backup server and not the primary server listed in the SRV record?

CyberData devices have a bug where they will not fall back to the primary server listed in the SRV record in the event it switches to a backup server. To resolve this issue simply reboot the device. This will be fixed in a future release.



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