



Webex Calling Configuration Guide: SIP Enabled IP Intercoms

Document Part #931942B

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Webex Calling Configuration Guide: SIP Intercoms Document #931942B

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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 OUTDOOR INTERCOM	011186	20.4.1 or later
CYBERDATA SIP INDOOR INTERCOM	011211	20.4.1 or later
CYBERDATA SIP EMERGENCY INTERCOM	011209	20.4.1 or later
CYBERDATA SIP KEYPAD INTERCOM	011214	20.4.1 or later





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 intercom 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 intercom to use:

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

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

The intercom'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 intercom's product webpage:

SIP Outdoor Intercom: <u>https://www.cyberdata.net/collections/sip/products/011186</u>

SIP Indoor Intercom: https://www.cyberdata.net/collections/sip/products/011211

SIP Emergency Intercom: https://www.cyberdata.net/collections/sip/products/011209

SIP Outdoor Keypad Intercom https://www.cyberdata.net/collections/sip/products/011214

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> <u>managed device article.</u>

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

webex Control Hub	
	•
Getting Started Guide	
△ Alerts center	
MONITORING	
🔟 Analytics	
∽ Troubleshooting	
Reports	
MANAGEMENT	
은 Users	
盘 Workspaces	
📋 Devices	
Bo Apps	
📄 Account	
Organization Settings	
SERVICES	
C Updates & Migrations	
○ Messaging	
℅ Calling	
	•

Figure 3-1: Overview Side Bar



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

Figure	3-2:	Works	paces	Page
--------	------	-------	-------	------

Workspaces							() What is a Workspace?
& Workspaces) Locations Beta	🛠 Settings					
Q Search	Select	filters	~	Select locations	~	2 Workspaces in total	+ Add Workspace

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

Figure 3-3: Create a Workspace

our space.			you make decisions to improve the use and cos	
ame *				
/hat do you want to name the Workspace? e.g. 'The Oval'				
e.g. the over				
уре				
/hat type best describes the Workspace?				
Select type V				
		Types of	f Workspaces	
apacity			es come in different shapes and sizes, defining what orkspace you are adding will help us deliver insights	
ow many people is the Workspace uitable for?			ion and usage, in the future defaults for certain types	
e.g. 4		may exist.		
ocation			Meeting Room	
/here is the Workspace located?			Dedicated meeting space Capacity 6-20	>
Select location	\checkmark		1/6	
			170	



5. After creating the workspace select **Cisco IP Phone**.

Figure 3-4: Pick a device

Add Works	
Cisco Webex Rooms device	Cisco IP Phone
e.g. Cisco Webex Board, Room, and Desk series, and Webex Share.	e.g. Cisco 8845, 8865, 8800 and Analog Telephone Adapter ports
Customer Managed Device V Device Vendor	
Cyberdata Customer Managed 🗸 🗸	
Enter MAC Address Enter the MAC address of the IP phone you want to add. 0020f7044131	
*I confirm that creating this device profile will expose sensit with unauthorized access. You are responsible for securing responsible for any fraudulent charges or phone calls that I limited support for third-party devices connected via this ir devices that are actively registered to the Webex Calling pl be directed to the third-party device vendor, including issu connectivity.	
	Back Ne

- 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

Add Workspace					
Device Succe	essfully Added				
Details					
Workspace Name	SIP Username				
Intercom	1002				
Device Vendor	SIP Password				
Cyberdata Customer Managed					
Line ID 🛈	A Enter this password into the device to link it. As needed, record this password, since it will never be visible again.				
x6818y3snl@64941297.int10.bcld.webex.com	The administrator is responsible for maintaining and securing these credentials.				
Outbound Proxy					
hs17.hosted-int.bcld.webex.com					
MAC Address	C Configuration documentation				
0020F7044131					
	Close				

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 Intercom

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 SIP Username.
- 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

	Cyber	Data Inter	cor	n
SIP Settings		Nightringer S	ettings	
Enable SIP operation:	2	SIP Server:	-	Host or IP address
Register with a SIP Server:		SIP User ID:		User ID
Primary SIP Server:	64941297.int10.bcld.webex.com	SIP Auth ID:		Auth ID
Primary SIP User ID:	x6818y3snl	SIP Auth Password:	-	Password
Primary SIP Auth ID:	1002	Re-registration Interval	and a second second	
Primary SIP Auth Password:		re regist abort merra	(11 00001100).	
Re-registration Interval (in seconds):	360			
		Dial Out Setti	ngs	
Backup SIP Server 1:	Host or IP address	Dial out Extension:	204	
Backup SIP User ID:	User ID		id204	
Backup SIP Auth ID:	Auth ID	Send Multicast Audio:		
Backup SIP Auth Password:	Password		224.5.5.5	
Re-registration Interval (in seconds):	360	Multicast Port:	5050	
		Repeat Message:	1	
Backup SIP Server 2:	Host or IP address			
Backup SIP User ID:	User ID			
Backup SIP Auth ID:	Auth ID	Call Disconne	ection	
Backup SIP Auth Password:	Password	Terminate Call after del	lav: 0	
Re-registration Interval (in seconds):	360			
Remote SIP Port:	5060	Audio Codec	Selection	n
Local SIP Port:	5060			
		Codec: Auto Select	~	
SIP Transport Protocol: TLS Version:	TLS V NTP enabled	-		
Verify Server Certificate:	1.2 only (recommended)	RTP Settings		
terny contendentiale.		The second s	10500	
Outbound Proxy:	hs17.hosted-int.bcld.webex.com	RTP Port (even):	10500	
Outbound Proxy Port:	0	Asymmetric RTP: Jitter Buffer:	50	
	1. 	RTP Encryption (SRTP)	277	
Use Cisco SRST:		in chorphon (arth)	In manual or y	
Disable rport Discovery:				
onegister on boot.		Save Reboot	Toggle Help	
Keep Alive Period:	10000			



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.

Home Device	Network SIP	SSL Multicast Sensor	Audiofiles	Events DSR	Autoprov Firmware
	Cy	berData I	nter	com	
Device Status		Sensor Status		Import Settin	igs
Serial Number: Mac Address: Firmware Version: Partition 2: Partition 3:	186201657 00:20:77:04:41:31 v20.4.1 v20.4.1 v20.4.1	Relay Status: Locke Door Status: Closed Intrusion: Closed Admin Settings	đ	Choose File No file o	-
Booting From: Boot From Other Partition	partition 2	Username: admin Password: ••••• Confirm Password: •••••		Export Settin	igs
IP Addressing: IP Address; Subnet Mask: Default Gateway; DNS Server 1: DNS Server 2:	DHCP 192.168.1.14 265.255.255.0 192.168.1.1 192.168.1.1	Save Reboot To	ggle Help		
SIP Volume: Multicast Volume: Ring Volume: Sensor Volume: Push to Taik Volume: Microphone Gain: Push to Taik Microphone Gain:	4 4 4 4 4 4 4				
SIP Mode: Multicast Mode: Event Reporting:	Enabled Disabled Disabled				
Primary SIP Server: Backup Server 1: Backup Server 2: Nightringer Server:	Registered Not registered Not registered Not registered				

Figure 4-3: <u>Home Tab – Registered</u>



5.0 Using the CyberData Intercom in a Webex Calling system.

CyberData Intercoms are used for access control. Depending on the number of keys the intercom has there are different ways to use the intercom. A single button intercom can be configured to call a number when the call button is pressed. The Keypad variants can take advantage of the keypad and dial numbers to make a call. There are several different modes that can be used on Keypad intercoms.

5.1 Setting the Dialout Extension – Single button intercom

Once the intercom is registered with Webex Calling, the "Dial out Extension" will need to be set for the intercom to call a number when the front call button has been pressed. This number can be either a direct extension, hunt group, call queue, or a direct phone number.

- 1. After Logging into the intercom go to the **SIP** Tab.
- 2. On the SIP Tab set the Dial out Extension to the address you want the intercom to call.
- 3. The Extension ID of the intercom is what should appear on the caller ID of the intercom.

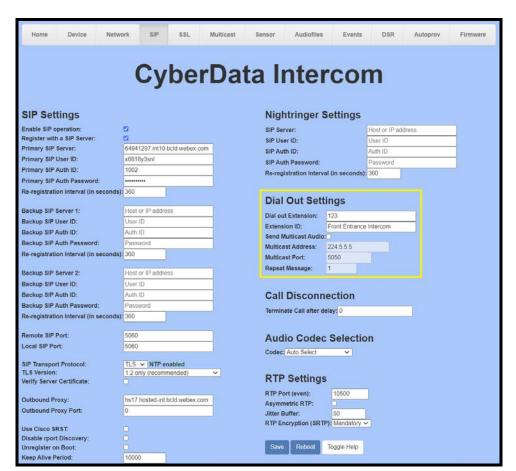


Figure 5-1: Set the Dial out Extension



5.2 Calling with a Keypad Intercom

The Outdoor Keypad Intercom (011214) has multiple different 'Dial Modes' that can be used which will make the intercom operate in a slightly different manner. There are four different dial modes that can be used. Telephone Operation, Cell Phone Operation, Speed Dial Operation, and Security Operation. These different modes are selected on the Buttons page.

Figure	5-2:	Dial	Modes

Home	Device	Buttons	Security	Network	SIP	SSL	Multicast	Access Log	Sensor	Audiofiles	Events	DSR	Autoprov	Firmware	
		Су	ber	Da	ta	K	eyp	ad	Int	erc	om				
Dial M	ode	ration: •					•	eed Dial		\$					
Enable Spe	ll Phone Op eed Dial Op curity Opera	eration:					Кеура Кеура	ad 1: 800 ad 2: 801 ad 3: 802		ID: En	trance Interco trance Interco trance Interco	om			
	Security Mode Settings Relay Activation Code: 9876123						ad 4: 803 ad 5: 804 ad 6: 805		ID: En	trance Interco trance Interco trance Interco	om				
Relay Dead	Relay Deactivation Code: 9876486					Keypa	Keypad 7: 806 ID: Entrance Intercom Keypad 8: 807 ID: Entrance Intercom Keypad 9: ID: ID:								
	icast Audio:		ID: Ent	rance Interco	m		Keypa Keypa Keypa	ad *:		ID: ID: ID:	trance Interco				
Multicast A Multicast F Repeat Me	Port:	224.5.5.5 5050 1						ton Tone	es	10.21	trance merce	5111			
								Button Tones:							
								tart Button Test	Toggle H	elp					

• Telephone Operation

• This mode operates like a telephone. Press the call button and then dial the number.

• Cell Phone Operation

- This mode operates like a cell phone. Dial the number then press the call button.
- Speed Dial Operation
 - This allows each button (0-9 * # Call Button) to be for a specific speed dial number. The Speed Dial Timeout is how long the button must be pressed before the call will send.
- Security Operation
 - This mode restricts the calling options to only the call button. The keypad is then used for "Security Codes" for access control without making a call. Check the operations manual for more details on the Security Codes.



5.2.1 Setting up Speed Dial Operation

After setting the dial mode to **Speed Dial Operation**, the **Speed Dial settings** will be configurable. **Speed Dial Timeout** is how long the button will need to be pressed to make a call; if set to 0 the call will send immediately.

Home Device B	Buttons Se	curity Netwo	ork SIP	SSL	Multicast	Access Log	Sensor	Audiofiles	Events	DSR	Autoprov	Firmw
C	Cyb	erD	ata	K	eyp	bad	Int	erc	om			
Dial Mode					Spe	eed Dial :	Settings	;				
Enable Telephone Operation	on: 🔾				Spee	d Dial Timeout:	0					
Enable Cell Phone Operati					Keyp	ad 1: 800		ID: En	trance Interco	om		
Enable Speed Dial Operati Enable Security Operation					Keyp	ad 2: 801		ID: En	trance Interco	om		
Enable Security Operation	. 0				Keyp	ad 3: 802		ID: En	trance Interco			
					Keyp	ad 4: 803		ID: En	trance Interco	m		
Security Mode	Settings				Keyp	ad 5: 804		ID: En	trance Interco	om		
Relay Activation Code:	9876123				Keyp	ad 6: 805		ID: En	trance Interco	om		
Relay Deactivation Code:	9876456				Keyp	ad 7: 806		ID: En	trance Interco	om		
					Keyp	ad 8: 807		ID: En	trance Interco	m		
Allow Telephone Dialout:					Keyp	ad 9:		ID:				
					Keyp	ad 0:		ID:				
Call Button: 600		ID: Entrance In	tercom		Keyp	ad *:		ID:				
Send Multicast Audio:					Keyp	ad #:		ID:				
Multicast Address: 224	.5.5.5				Call E	Button: 600		ID: En	trance Interco	om		
Multicast Port: 505	0											
Repeat Message: 1					But	tton Tone	s					
					Play	Button Tones:	4					
					Fidy I	button iones:	•					
					s	ave Reboo						
					s	tart Button Test	Toggle He	elp				

Figure 5-3: Speed Dial Settings



5.2.2 Setting up Security Mode Operation

Security Mode Operation will make the call button function as the main way to make a call. The call button can call a direct extension, ring group/call queue, or a standard phone number. The keypad can then be used for security codes that are configured on the security tab.

Relay Activation and Relay Deactivation are codes that can be entered on the keypad to activate and deactivate the relay. If those fields are left blank, they will be disabled.

Home Device Buttons Security Network SIP SSL	Multicast Acce	ess Log Sensor	Audiofiles	Events	DSR	Autoprov	Firmware
CyberData K	еура	d Int	erc	om	1		
Dial Mode Enable Telephone Operation: • Enable Cell Phone Operation: • Enable Speed Dial Operation: • Enable Security Operation: •	Speed Dial 7 Keypad 1: Keypad 2: Keypad 3: Keypad 4:	800 801 802	ID: En ID: En ID: En	trance Interco trance Interco trance Interco trance Interco	om om		
Security Mode Settings Relay Activation Code: 9876123 Relay Deactivation Code: 9876456 Allow Telephone Dialout:	Keypad 5: Keypad 6: Keypad 7: Keypad 8: Keypad 9:	805 806	ID: En ID: En ID: En ID: En	trance Interco trance Interco trance Interco trance Interco	om om		
Call Button: ID: Entrance Intercom Send Multicast Audio:	Keypad 0: Keypad *: Keypad #: Call Button: Button Play Button	Tones	ID: ID: ID: ID: En	trance Interco	om		
	Save	Reboot tton Test Toggle He	lp				

Figure 5-4: Security Mode Operation



5.3 Activating the on-board relay

While in a call with the intercom, DTMF codes can be entered on the phone to trigger the onboard relay of the intercom. These settings are found on the Device tab of the web interface.

- Relay Pulse code
 - Activates the relay for the configured Relay Pulse Duration.
- Relay Pulse Duration
 - How long the relay will activate when the Pulse code is sent.
- Relay Activation Code
 - This code activates the relay.
- Relay Deactivation Code
 - \circ $\;$ This code deactivates the relay.

Figure 5-5: Relay Settings

Home Device Buttons Security Network SIP SSL Multi	cast Access Log Sensor	Audiofiles	Events	DSR A	lutoprov	Firmware
CyberData Key	ypad In	terco	om			
Volume Settings (0-9)	Relay Settings					
SIP Volume: 4	Activate Relay with DTMF code	: 💌				
Multicast Volume: 4	Relay Pulse Code:	123				
Ring Volume: 4	Relay Pulse Duration (in secon	ds): 2				
Sensor Volume: 4	Relay Activation Code:	456 654				
Push to Talk Volume: 4	Relay Deactivation Code:					
	Play Tone During DTMF Activat Activate Relay During Ring:	ion:				
Microphone Settings (0-9)	Activate Relay During Night Ring.					
	Activate Relay While Call Activ					
Microphone Gain: 4	Activate Relay On Button Press					
Push to Talk Microphone Gain: 4	Relay On Button Press Duration	1: 3				
Clock Settings	Misc Settings	Keypad Inte	rcom			
NTP Server: north-america.pool.ntp.org	Auto-Answer Incoming Calls:					
Timezone: America/Los_Angeles	Button Lit when Idle:					
Current Time: Thu, 03 Oct 2019 15:58:08	Button Brightness (0-255):	255				
	Keypad Lit when Idle:					
	Keypad Brightness (0-255):	255				
	Play Ringback Tone: Enable Push to Talk:					
	Enable DTMF Push to Talk:					
	Prevent Call Termination:					
	Disable HTTPS (NOT recommen	nded):				
Save Reboot Toggle Help						
Test Audio Test Microphone Test Relay						



Note: Enable "Play Tone During DTMF Activation" if you want a tone to play when the onboard relay is active.



6.0 Setup Diagram

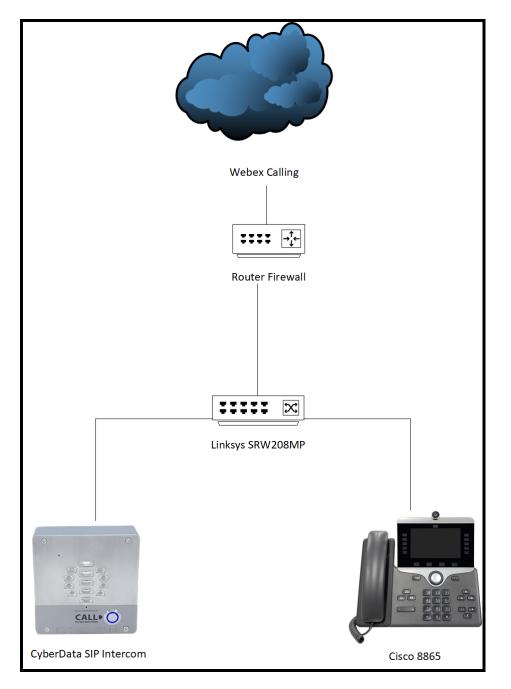


Figure 6-1: Interoperability Test Infrastructure



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.