



CyberData InformaCast Enabled WiFi Alert Button Setup Guide

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CyberData Corporation

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CyberData InformaCast Enabled WiFi Button Setup Guide Document# 931822B

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- 2-25-21 Update to network configuration.



Table of Contents

Table of Contents	3
1.0 Preparing the Environment	4
2.0 Installing the Tool	4
2.1 Installing the FTDI driver	
3.0 Using the Tool	
3.1 Button Explanations	
3.3.1 Edit Button Configuration	14
3.3.2. SNMP Servers	
3.3.3 Buzzer and LED Behavior	16
3.3.4 System Event Log	
4.0 Setting up SNMP on InformaCast	19
4.1 Creating the M2M relay	19
5.0 Contact CyberData Corporation	



1.0 Preparing the Environment

The CyberData InformaCast Enabled WiFi Button is used to trigger a message through InformaCast with a simple button press. The button does not register to InformaCast like a typical InformaCast enabled device, but it does interact with the server.

To properly use the buttons CyberData recommends having already setup the InformaCast Server, Speaker groups, and Service Location Protocol (SLP). The button uses SLP to discover the server which allows for a faster deployment. If using SLP is not possible on the network, the WiFi Button Utility allows the InformaCast Server to be set using the SNMP button.

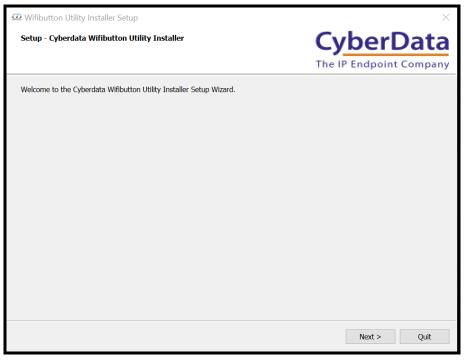
The WiFi buttons will require the ability to contact the InformaCast server. This requires the WiFi Access points the buttons connect to have the ability to communicate with the InformaCast Server.

2.0 Installing the Tool

This section will walk through the setup of the CyberData Wifi Button Utility. This tool is designed to setup and manage the buttons.

- 1. Download and unzip the CyberData WiFi Button Utility.
- 2. Double click on the wb_installer.exe file to start the installation.
- 3. Once you have the Installer Setup Wizard window, press Next to begin.

Figure 2-1. Installer Setup Welcome





- 4. Confirm the installation location or press the Browse button to select a new install location.
- 5. Press Next to continue.

Figure 2-2. Select Install Location

🕶 Wifibutton Utility Installer Setup		\times
Installation Folder	CyberD)ata
	The IP Endpoint	
Please specify the directory where Cyberdata Wifibutton Utility Installer will be installed		
C:\Users\ptuttle\Cyberdata		Browse
	< Back Next >	Cancel



- 6. Check the box for "WiFi Button Utility".
- 7. Press Next to continue.

Wifibutton Utility Insta Select Components Please select the con	aller Setup	Ι.	× CyberData The IP Endpoint Company
Default	Select All	Deselect All	
WifiButton Utility			Cyberdata Wifibutton utility. Used for setting up the WB for network operations.
			This component will occupy approximately 20.98 MB on your hard disk drive.
			< Back Next > Cancel

Figure 2-3. Pick Utility to Install



- 8. Read and Agree to the License Agreement.
- 9. Press Next to continue.

Figure 2-4. License Agreement

Ð	Wifibutton Utility Installer Setup			×		
	License Agreement Please read the following license agreement. You must accept the terms containe in this agreement before continuing with the installation.		ber[
[^		
	Software License Agreement					
	1. This is an agreement between Licensor and Licensee, who is being licensed to use	e the named Sc	oftware.			
	2. Licensee acknowledges that this is only a limited nonexclusive license. Licensor is rights, and interests in the Software.	and remains th	e owner of all title	es,		
	3. This License permits Licensee to install the Software on more than one computer system. Licensee will not make copies of the Software or allow copies of the Software to be made by others, unless authorized by this License Agreement. Licensee may make copies of the Software for backup purposes only.					
	4. This Software is subject to a limited warranty. Licensor warrants to Licensee that it Software is distributed is free from defects in materials and workmanship under norm according to its printed documentation, and to the best of Licensor's knowledge Licent the printed documentation is not an infringement of any third party's intellectual project of a period of 30 days after delivery. To the extent permitted by law, THE ABOVE-S ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND LICENSOR DISCLAIMS ALL II IMPLIED WARRANTY OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, OR OF FI No agent of Licensor is authorized to make any other warranties or to modify this limit this limited warranty must be commenced within one year of the expiration of the war not allow any limit on the length of an implied warranty, the above limitation may no not allow the disclamer of implied warranties. Then any implied warranty is limited to 30 the set of a material and the set of the expiration of the war not allow disclamer of implied warranties.	mal use, the Sol ensee's use of th operty rights. Th TATED LIMITED IMPLIED WARRA ITNESS FOR A I mited warranty. varranty. Becaus ot apply to this	ftware will perform his Software accorn his limited warrant D WARRANTY REF ANTIES INCLUDIN PARTICULAR PUR Any action for bre- se some jurisdictic Licensee. If the la	m rding to ty lasts PLACES NG ANY RPOSE. each of ons do aw does		
(I accept the license. 					
(\bigcirc I do not accept the license.					
		< Back	Next >	Cancel		



10. Set the start menu shortcut location.

11. Press next to continue.

Figure 2-5. Start Menu Shortcuts

🕶 Wifibutton Utility Installer Setup	X
Start Menu shortcuts Select the Start Menu in which you would like to create the program's shortcuts. You can also enter a name to create a new directory.	CyberData The IP Endpoint Company
Cyberdata	
Accessibility	^
Accessories	
Administrative Tools	
Brave Apps	
Cisco Webex Meetings Desktop App	
Discord Inc	
GoToMyPC	
Kayako Desktop	
Maintenance	
MeetingManager	
Microsoft Corporation	
RingCentral	
RingCentral Meetings	
Slack Technologies Inc	
Startup	
System Tools	\sim
	< Back Next > Cancel



12. The utility is ready to be installed, press the Install button to begin installation.

Figure 2-6. Ready to Install

🖾 Wifibutton Utility Installer Setup	>	×
Ready to Install	CyberData	ł
	The IP Endpoint Company	У
Setup is now ready to begin installing Cyberdata Wifibutton Utility Installer on your o	computer. Installation will use 20.98 MB of disk	
	< Back Install Cancel	

13. Once the install is complete, press the Finish button.

Figure 2-7. Installation Complete





2.1 Installing the FTDI driver

One of the chips used by the WiFi button requires a special driver so the host PC can interact with the button correctly. Please follow these steps to install the driver.

- 1. Run the included CDM21228_Setup.exe executable file to install the driver.
- 2. Press Extract to unpack the installer.



Figure 2-8. Extract the driver installer

3. Press **Next** to begin the installation process.

Figure 2-9. Installation Wizard





- 4. Read the license agreement.
- 5. Check I accept this agreement.
- 6. Press **Next** to begin installation

Figure 2-10. License Agreement

	reement		Č
Ń	To continue, accept the following license agreen agreement, use the scroll bar or press the Page [the entire
	IMPORTANT NOTICE: PLEASE READ CAREF INSTALLING THE RELEVANT SOFTWARE: This licence agreement (Licence) is a legal agree (Licensee or you) and Future Technology Devic of 2 Seaward Place, Centurion Business Park, G Scotland (UK Company Number SC136640) (Lic	ement betwee es Internation alasgow G41 ensor or we)	en you al Limited 1HH,
	driver software provided by the Licensor(Software BY INSTALLING OR USING THIS SOFTWARE		e to the 🗸
	I accept this agreement	ave As	Print
	O I don't accept this agreement		

7. Press **Finish** to complete the installation.



The utility and drivers are installed on the host PC. The WiFi buttons can now be connected and configured for the environment.



3.0 Using the Tool

This section will detail using the tool and the various button functions.

œ WiFi Alert Butto	on Utility, version v	/2.4.0		_	
CyberD The IP Endpoint Co		WiFi /	Alert B	utton	Utility
MAC Address	Serial Number	Device Name	Battery SoC (%)	RSSI (dBm)	Connection
		Configure Disc	over Buzzer/LED		
		Log SN			

Figure 3-1. WiFi Alert Button Utility

The tool shows all relevant information to finding and setting up buttons on the network.

MAC Address Serial Number Device Name Battery Soc (%) RSSI (dBm) Connection (WiFi or USB)



3.1 Button Explanations

The Utility has several functional buttons that can be interacted with; Configure, Discover, Buzzer/LED, Log, SNMP, and Quit.

Discover will scan the network and report back any discovered CyberData WiFi Buttons.

CyberData	d			WiFi Alert Bu	tton Utility
he IP Endpoint Compa					
MAC Address 00:20:f7:04:86:2f	Serial Number 527000106	Device Name WiFi Button	Battery SoC (%) 100	RSSI (dBm) -55	Connection
00:20:f7:04:86:30	527000107	WiFi Button	100	-61	WiFi
0:20:f7:04:86:2e	527000105	WiFi Button 105	99	-50	WiFi
0:20:f7:04:61:d1	480000104	WiFi Button	100	-47	WiFi
0:20:f7:04:86:32	527000109	WiFi Button	99	-47	WiFi
00:20:f7:04:86:2c	527000103	WiFi Button 103	99	-59	WiFi
00:20:f7:04:86:2d	527000104	WiFi Button 104	100	-48	WiFi
00:20:f7:04:86:2b	527000102	WiFi Button	99	-51	WiFi
		Configure	Discover Buzzer/LED		

Figure 3-2. Devices discovered on the network



3.3.1 Edit Button Configuration

Edit will allow a user to change several settings relating to the button including network connection, Firmware, and the boot partition. These settings include IP Source (DHCP or Static), NTP Server, Timezone, SSID, and PSK (WiFi Password).

Device Configura	ation				×
	Device	Соі	nfiguratio	on	
Serial Number 52	27000109		MAC A	ddress	00:20:f7:04:86:32
Device Name	WiFi Button		FW Version	v2.4.	0
IP Assignment	DHCP		Time Zone	Amer	ica/Los_Angeles 🔻
	◯ Static		SSID	cd_pr	od24
IP Address	10.10.1.98		PSK		
Subnet Mask	255.0.0.0		Battery SoC	99	
Default Gateway	10.0.0.1		Power Source	Line	
DNS Server	10.0.1.56		Logging Host IP	239.2	55.255.255
NTP Server	pool.ntp.org		Last Boot Time	2021.	01.06 15:22:07
l	AP Scan		SSID		RSSI
	FW Update				
(Set Boot Partition				
(Reset to Factory				
(Restart				
		AP sc	an idle.		
				Commi	t Cancel

Figure 3-3. Edit Settings

This window also features an AP Scan or Access Point Scan feature to find and detect access points that the button can connect to. Pressing AP Scan will have the tool scan the local network to detect access points.



3.3.2. SNMP Servers

SNMP allows the selection of the InformaCast server the button will interact with. This page allows the manual configuration of the InformaCast server if SLP is not enabled. Pressing Add will create a pop-up window that allows entry of the InformaCast servers IP Address.

Note: The InformaCast Server's IP Address must be reachable by the Access Point that the button is connected to.

œ. SNMP Servers	×
SN Serial Number 527000109	MAC Address 00:20:f7:04:86:32
10.0.1.195	
Remove	Add Commit Close

Figure 3-4. <u>SNMP</u>



3.3.3 Buzzer and LED Behavior

The Buzzer/LED button allows the adjustment of the buzzer and the LED on the button itself. There are adjustments for both the LED and Buzzer for both power options, line power connected to AC power adapter or on Battery power.

💁 Buzzer/LED Behavi	ior			×			
Serial Number 527000109 MAC Address 00:20:f7:04:86:32							
Line	volume	Buzzer	intensity	LED			
Power	pattern	SOLID OFF *	pattern	SOLID ON -			
Battery Power	volume		intensity				
i unc.	pattern	SOLID OFF 🔹	pattern	BLIP SLOW			
		Button Durati	ons				
	Button Press Duration	ms	Button ACK Timeout	seconds			
				Save Cancel			

Figure 3-5. <u>Buzzer/LED</u>

Table 3-1. Buzzer/LED pattern explanations

	Buzzer		<u>LED</u>
Solid Off	Buzzer Off	Solid Off	LED Off
Solid On	Buzzer On	Solid On	LED On
Flash Slow	Buzz slowly	Flash Slow	LED Flash slowly
Flash Rapid	Buzz quickly	Flash Rapid	LED Flash rapidly
Blip Slow	Short buzzes	Blip Slow	LED Blink slowly
Fade	Buzz	Fade	LED Fade in and out

Button Press Duration controls how long the button should be pressed before it takes an action. This is also known as a 'debounce timer'.

Button ACT Timeout controls how long the button will blink and/or buzz after it has been pressed.



3.3.4 System Event Log

Log button allows the gathering and viewing of logs from a button. The logs for all buttons are logged per button. The logs can be viewed directly through the WiFi Button utility or can be saved to the PC running the utility.

Set log verbosity changes the verbosity or the amount of information printed in the logs. It is normal for this to be left at the default verbosity of 5.

💁 Log Messages		\times
System Event	: Log	
MAC Address 00:20:f7:04:86:32	Serial Number 527000109	
Get Log Clear Log Save to File		
Set log verbosity 5 🗘 Save Undo	Exit	
Note: verbosity changes will be reflected in newly-generate	d logs	

Figure 3-6. Log button



4.0 Setting up SNMP on InformaCast

To use the buttons with InformaCast, an SNMP trap must be set up on the server. This allows the buttons to communicate with the server when they are pressed. This utilizes the M2M (Machine to Machine) plugin on InformaCast.

Note: It is recommended to have already set up IP Speaker groups to receive the messages triggered by the buttons.

Note: Since the M2M Contact Closures require the IP Address of the button to function as expected it is recommended to set up the button with either a Static IP Address or a DHCP Address reservation.

4.1 Creating the M2M relay

1. Navigate to the InformaCast server and log into InformaCast.

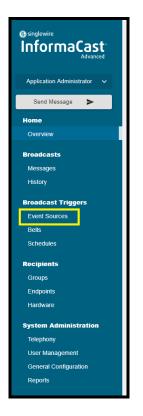
Figure 4-1. InformaCast Login Page

Username Password SIGN IN

2. Go to the Event Sources in the Broadcast Triggers section.



Figure 4-2. Navigation Page



3. On the Event Sources page click on M2M Contact Closures.

Figure 4-3. Event Sources

Event Sources			Ø
Califavee Deeces and opionally records monitored numbers (primarily \$11 calit) and triggers a proadcast.	DiaCee Configure the massage to send in a DialCest and the incipient group to receive it based on a number that is based	Televend CAP Foil verous CAP leads than public safety organizations and match the CAP exercacy from these leads with message rules. These rules offen the types of messages you vant to indicadican to informaCast recoverts.	Inbound Email Sand a broadcaar when an email is received by a montored email account.
Informal RSS Movier RSS Reads and Tagger to calculate containing RSS feed test whenever new information becomes available.	MXM Context Cleveres Tragge Inform/Cast breakade when context cleares are activated, and activate context cleares when tracecards are seried. <i>Licensed for 8000 9720 Statust Clearere</i>	Night Bell Night Bell Night a specific directory numbers and Yigger a repeating brushlast until the call is answered or directed.	Park and Page Park loconing calls and send broadcasts to announce then annial to insere led parties because for 3 flash and Flags Triggers
GuickPage Assistant. The configure message components and recipients as an XML service, and relate broadceast by Galing a phone number.			



4. On the M2M Contact Closure page press **Create**.

Figure 4-4. M2M Relay Contact Closure

< Event Sources					
÷ Q					CREATE
Name	Description	IP Address	Input Ports	Output Ports	
Cameron PC	Cameron's PC Simulating a WiFi Button	10.0.1.2	1	0	:
qa102	One of Denise's WiFi Buttons	10.10.1.73	1	0	:

5. Set the Name, Description, IP Address (of the button) and SNMP Community Name. Press Save to create the contact closure.

Note: Since the M2M Contact Closures require the IP Address of the button to function as expected it is recommended to set up the button with either a Static IP Address or a DHCP Address reservation.

Create Contact Closure	0
< Event Sources < M2M Contact Closures	
General Details	^
Name *	
Panic Button - John's Office	
Description *	
Panic Button in John's Office	
IP Address *	
10.1.2.3	
SNMP Community Name *	
Panic Buttons	
	CANCEL SAVE
Input Ports	
Output Ports	

Figure 4-5. Create Contact Closure



6. Press **Create** to make an Input Port for the SNMP messages from the button.

Edit Contact Closu	re			0
Event Sources < M2M Contact Clo	99705			
General Details				^
Name *				
Panic Button - John's Office				
Description*				
Panic Button in John's Office				
P Address *				
10.1.2.3				
SNMP Community Name *				
Panic Buttons				
				CANCEL SAVE
and De de				
Input Ports				^
≂ Q				CREATE
2774	Status		Messege	
		No Data		
			Rows per page 10 💌 0-0	

Figure 4-6. Edit Contact Closure.

7. Set the Name, Port Identifier (OID), Port Switch, Message, and Recipient Groups.

Note: The CyberData OID is 1.3.6.1.4.1.45953.1.1.2.1.2.201

Figure 4-7. Create Input Port

< Event Sources < M2M Contact Closures		
General Details		
Name *		
John's Panic button		
Set Current Monitoring Status to Active		
Set Schedule to "Always On"		
Schedule *		
	*	
Port dentifier (0iD)*		
Port Identifier (0(D) * 1.3.6.14.1.45953.1.1.2.12.201 OID REFERENCE		
Port Identifier (0(D) * 1.3.6.14.1.45953.1.1.2.12.201 OID REFERENCE		
Part dentifier (010)* 1.3.6.14.14.5963.1.12.12.201 OID REFERENCE Part Sensiti ChiOff (020 value)* 1		
Port develope (0:0)* 13.6.14.145963.1.12.12.201 OID REFERENCE Port Swatch ChrOft (2:0 value) * 1	•	
Port dentifier (010)*	٠	
Pert Swetch On:OF (OID value)* 1 Message *	•	× •

The WiFi button is now ready to be used. CyberData recommends testing the button to ensure that the message is set correctly and plays to the correct group.



5.0 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.

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