Web Configuration Manual IoTBuddy

Senva Sensors 1825 NW 167Th Place Beaverton, OR 97006

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Rev.	Release Date	Ву	Description of Change	ECR
0A			Initial Release	
0B	10/27/23		Updated Screenshots, Descriptions, and Menus	

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Wi-Fi Connection

Follow installation instructions to wire IoTBuddy to desired Modbus or analog device.

The QR Code for the Manual is included below:

Once powered, IoTBuddy will host an access point for 5 minutes. To re-enable the access point, press the button on the IoTBuddy.





Connect using QR Code to Access Point (AP):

- 1. Scan the QR code on the label of the IoTBuddy device. This can be used to join the IoTBuddy's hosted network.
- 2. Open a browser; go to https://4.3.2.1
- 3. A non-private connection status may appear, please approve and "visit website"
 - a. You may need to hit "refresh" after clicking the "visit website" link.
- 4. Log in using the default credentials:
 - username: admin
 - password: admin
- 5. Navigate using the 3-line "hamburger" menu on the top right.

Refer to the other sections of this document for details of each setup screen.

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1 (i) 4.3.2.1/basic_auth	+ 1 :	A https://4.3.2.1/0/index.h	+ 1 :	▲ https://4.3.2	.1/0/index.h + 1 :
Sign in https://4.3.2.1 requires a username Username admin Password admin	and password. Cancel Sign in	C Access Point C Local Network		Configuration Local Network	e the Difference
1 2 3 4 5 6 q w e r t y a s d f g h ☆ z x c v b 7123 , v	7 8 9 0 u i o p j k l n m 💌 . 🗸	Successi Requested settings Copyright © 2023 Series Inc. Al Royt	Save were retrieved #Reserved	BAS Connect Advanced ~	ion ~ Save retrieved

Manually Connect to Access Point (AP):

- 1. Open your Wi-Fi network page and find the IOTB that matches the serial number printed on your IoTBuddy label.
- 2. Enter the network security key: password



- 3. Go to <u>https://4.3.2.1</u>
- 4. Your browser may indicate a non-private connection. Find the "proceed" button near the bottom of the warnings; you may need to click the subtle link labeled "advanced" or "show more" first.

Your connection is not private
Attackers might be trying to steal your information from 10.73.8.142 (for example, passwords, messages, or credit cards). <u>Learn more</u>
NET:ERR_CERT_AUTHORITY_INVALID
Q To get Chrome's highest level of security, <u>turn on enhanced protection</u>
Hide advanced Back to safety
This server could not prove that it is 10.73.8.142 ; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
Proceed to 10.73.8.142 (m. 31e)

- 5. Log in using the default credentials:
 - username: admin
 - password: admin

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☆ ③ 4.3.2.1/basic_auth + ① :	
Sign in https://4.3.2.1 requires a username and password. Username admin admin Password admin Cancel Sign in	
1 2 3 4 5 6 7 8 9 0	Sign in
qwertyui op	https://10.73.10.151
asdfghjk I	Username admin admin
☆ z x c v b n m ⊗	Password admin
·	Sign in Cancel

6. You may change your username and password on the **Login Info** screen. Once you click "**Save**," you will be logged out and prompted to log in again with the new credentials.



Network Configuration

- 1. Enter the SSID and credentials for the existing Wi-Fi network you wish to connect to the IoTBuddy.
- 2. You may change your access point password on this page, if desired.
- 3. If you chose a static IP assignment, please enter it in the "Addressing" section.



4. Changing the "Address Assignment" to Static allows for the IP address to be entered.

	STATUS		C Access Po	Init C Local Network
I oTBuddy				
Configuration ~	Access Point			
Login Info				
Local Network	Access Point SSID:	IOTB-FFF04		
Local Device IoT Connection ~	Access Point Password:		_ ø	
BAS Connection ~	Addressing			
Advanced V	Address Assignment: IPv4 Address:	Static Dynamic Static	Set IP Add	ress Type.
	DNS Preferred:	1.0.0.0	Set IP Address, DNS,	Select "Save" to Annly Changes
	Static Gateway:	0.0.0.0	Subnet, and	Sciect Save to Apply changes.
	Static Netmask:	0.0.0	Gateway.	The IP Address to Access the IoTBuddy Will Be the New IP Address.

- 5. When you hit the "**Save**" button, you will need to disconnect and reconnect to the access point IOTBxxxxxx. Reconnect, then click the "reload" button on your web browser.
- 6. **For Static Connections**: Enter the previously assigned IP address into your browser. You will be prompted with another non-private connection, please proceed. Log in again using your new login credentials.

For DHCP Connections: Navigate to the network tab and hit the Copy IP button to copy your new IP address.

loT Buddy ×	🐞 New Tab X +					~ - • ×
$\leftrightarrow \rightarrow$ C \textcircled{a}	Q. https://10.73.10.136					→ 🖾 🗉 =
🕅 (3) Sheets - Smartshee 🚺 Product Man	https://10.75.10.136/ — Visit					isiness cas
	This time, search with: G 💩 b	0 ~ w \star 🗆 O				
I ot Buddy	Wi-Fi Station				^	Welcome!
Configuration Login Info Local Network	Network Status: 🔵	Connected: Available at https://10.73.10.136 c	on the SENVA network.	Copy IP	Press to	Information will be displayed here as you navigate the SENVA IoT Buddy configuration
Local Device	Wifi Station SSID:	SENVA			сору.	settings interface.
IoT Connection ~	Security Protocol:	Open v				
BAS Connection ~ Advanced ~	Password:	••••••	•			
	Access Point					
	Access Point \$\$ID:	IOTB-FFF04				
	Access Point Password:		•			
	Addressing					
	Address Assignment:	Dynamic v			Save	Ĺ
			Copyright © 2023 Serva Inc. All Right	ts Reserved		

7. You may now connect to your designated Wi-Fi network. Paste the new IP address into your browser. You will be prompted with another non-private connection; please proceed. Log in again using your new login credentials.



Ethernet or Power over Ethernet (POE) Connection

Follow installation instructions to wire IoTBuddy to desired Modbus or analog device.

 For static IP addressing, connect RJ45 Ethernet plug to the IoTBuddy and directly to your computer. Press the button on the IoTBuddy once. Using a web browser, go to https://3.2.1.1. It may take a few seconds before this address is accessible. You may then set up your desired static IP address using the web interface (see steps 4 through 7 found on pages 6 and 7 above).

Note: If a static IP address has already been assigned to the IoTBuddy, the currently assigned IP address will need to be used. The designated IP address can be easily retrieved <u>Senva Sync app</u>.

For DHCP, connect RJ45 Ethernet plug to IoTBuddy and to your network. Determine your automatically assigned IP address and enter it into your web browser using "https://".

Note: The assigned IP address can be easily retrieved <u>Senva Sync app</u>.

Your browser may indicate a non-private connection. Click "Advanced" and then "Proceed to xx.xx.x.xxx (unsafe)." Once signed in, you will be able to update security settings to enhance privacy.

2. Your browser may indicate a non-private connection. Click "Advanced" and then "Proceed to xx.xx.xxxx (unsafe)."

Your connection is not private
Attackers might be trying to steal your information from 10.73.8.142 (for example, passwords, messages, or credit cards). <u>Learn more</u>
NET::ERR_CERT_AUTHORITY_INVALID
Q To get Chrome's highest level of security, <u>turn on enhanced protection</u>
Hide advanced Back to safety
This server could not prove that it is 10.73.8.142 ; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
Proceed to 10.73.8.142 (unsafe)

- 3. Log in using the default credentials:
 - username: admin
 - password: admin

Sign in						
3.10.151						
^{admin} admin						
admin						
Sinn in Convel						
Sign in Cancel						

- 4. You may change your username and password on the first screen. Once you click "**Save**" you will be logged out and prompted to log in again with the new credentials.
- 5. For static IP addressing, navigate to the "Local Network" tab. Select "Static" address assignment and enter the rest of your credentials in the associated boxes. Once you click "Save" you will be logged out and prompted to log in again, with the new IP address and credentials.

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	STATUS			O Access Point O Local Netwo	n	O
lõTBuddy						Addressing
Configuration ~	Access Point					Dynamic
Login Info Local Network Local Device	Access Point SSID:	IOTB-FFF04				 If set to dynamic, the connected network will handle assigning an editeses to your IoT
IoT Connection ~	Access Point Password:					Buddy.
BAS Connection ~ Advanced ~	Addressing					Static (Advanced) If set to static, IoT Buddy will use your
	Address Assignment:	Starlic	<u> </u>	. Select Add	ress	preferred address information. • You will need to configure the IPv4.
	IPv4 Address:	Static	- A	ssignment.		DNS Preferred, Gateway and Netmask address's to work with
	DNS Preferred:	1.0.0		6 . L ID	2 5240	your network.
	Static Gateway:	0.0.0	- 2.	Set IP	5. Save	
	Static Netmask:	0.0.0.0	Co	onfiguration	. Configuratio	on.
					Save	
				Copyright @ 2023 Seriva Inc. All Right	Reserved.	

Note: The ethernet connection or the power to the IOTBuddy will need to be disconnected then reconnected for the new address to take effect.

6. Once connected, you will see the "Local Network" status icon at the top of the page turn green.



Cloud Service Setup (Remote Output Connection)

1. Choose your MQTT protocol from AWS IoT Core over MQTT, Azure IoT Hub over MQTT, or plain MQTT. Enter your cloud service or broker information.



2. Enter client certificates in the Security section if applicable.

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← → C ☆ ▲ Not secure Ht	ttps://4.3.2.1/0/index.html			🖻 🖈 🤨 🗯 🖬 🏝 🗄
③ 1Plastic Buckles Ho ③ Carabiners Keye	chai 🚨 Honeywell Home R 🧕 KALOR	TECH Wi-Fi O Reading all objects O BAC	sharp/BACnetE 🔯 High Performance f G BACnet: The Global 🏚 BACnet Questions a 🏚 BACnet [HVAC Wile] 🔮 Developer Aids – B	How to Capture BA
	STATUS		Access Point O Local Network	0
Configuration	Cloud Connection In	nfo		Username & Password
Login Info	Service Selection:	MQTT	v	Username
Local Network	Username:	*****		 Username must only contain ASCII characters
IoT Connection ~	Password:	@	MQTT, AWS, and Azure connections can	Username must be atleast 1 character long.
IoT Setup	Broker URI:	ping auz4ml7ebock1-ats.iot	use certificates for authentication.	
Advanced ~	Port:	8883		Password
	Client ID:	lotconsole-3283db5d-786a-	1. Enable Security.	 Password must only contain ASCII characters. Password must be atleast 8 characters loss
	Security			long.
	TLS:	Enabled	2. Upload Private Key.	
	Client Private Key:	Choose File Nome chosen	3. Upload Client Certificate.	
	Client Certificate:	Choose File No chosen	4. Save Settings. 🛹 🛛 🕬	
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3. When you hit "save," you should see the Connection Status icon at the top turn green.

AWS IOT Core (MQTT) Status

Setting the Modbus Settings for the Connected Device

Modbus Settings (Local Device)

1. Navigate to the "Local Device" tab to enter Modbus settings. The Baud Rate, Parity, Stop Bits, and Address fields must match the Modbus device connected to the IoTBuddy.

← → C ↔ A Not secure https://	13.2.1/0/index.html	A W 100	~ 1			
Ø 1Plastic Buckles Ho Ø Carabiners Keychai	. Honeywell Home R	8. KALOR TECH WI-FI	Reading all objects	O BACsharp/BACnetE	🔯 High Performance f 💪 BACnet: The Global 🏚 BACnet Questions a 🏚 BACnet (HVAC Wiki) 🔮 Developer Aids – B	B How to Capture BA
	STATUS				Access Point Local Network	0
Torbuduy	Modbus RTU					Addressing
Configuration ~						Dynamic
Login Info	Baud Rate:	115200		× •		 If set to dynamic, the connected network will
	Parity:	Even		•	1 Set Modbus Settings to	handle assigning an address to your IoT
IoT Connection ~	Stop Bits:	1 Bit		•		Buddy.
BAS Connection ~					Match the connected	Static (Advanced)
Advanced ~	Address:	1			device.	 If set to static, IoT Buddy will use your preferred address
	Register Ord	er				information. • You will need to configure the IDr/
	Register Ord					DNS Preferred, Gateway and Netmask
	Word Order:	MSB		×		address's to work with your network.
	Byte Order:	MSB		~		
					2. Select Save.	
					Save	
					Convribit (5) 2023. Sanva Ion. All Diahts Deservant	

2. Navigate to the "Advanced", then" General", then" System Info" tabs to verify Modbus communication. The Modbus RTU TX and Modbus RTU RX values will begin to count when the points are fully defined, and proper communication is established.

Ville Cille	-CLL/remp.Recessed/waii X Q reew lab X 4	· - • ·
☆ → C ☆ ▲ Not secure https://	13.2.1/0/index.html	2 🖈 单 🗯 🗄 🖬 😩 E
Ø 1Plastic Buckles Ho Ø Carabiners Keychai	💄 Honeywell Home R ዿ KALOR TECH Wi-Fi 🎧 Reading all objects 🎧 BAChetspr@AChetE 🔯 High Performance f 🌀 BAChet The Global 🏠 BAChet Questions a 🏠 BAChet (HVAC Wiki) 🔮 Developer Aids - B	How to Capture BA
	Access Point Local Network	0
Bibuuuy	Power On Time: 00:03:59:30	Firmware Upgrade
Configuration ~	Device Resets: 1	Upgrade firmware to a
Login Info	Reset Cause: SOFTWARE	newer version.
Local Network	Service Disconnections: 0	
Local Device	Publish Queue Full: 0	
BAS Connection	Sent Messanes: 0	
Advanced ~	Verified Messages: 0	
General	Foliad Managary 0	
System Info	Render Erzer Cadas	
Diagnostic Log		
	Modbus KTU TX Frames: 0	
	Modbus RTU Rx Frames: 0	
	Modbus RTU Frame Errors: 0	
	NFC EEPROM Status: NFC_OK	
	IP Activity: 0	
	IP Errors: 0	
	Convioled © 2023 Sanua Ion All Direkts Dasanuad	
	Copyright & 2023 Softwarms, Ast Agins Resolved.	

Setting the Data Point Settings for the Connected Device

Data Point Settings (Local Modbus Device)

- 1. Under **IoT Connection** navigate to "**IOT Messages**" tab. You may choose one of the pre-configured Senva devices from the dropdown or choose "**Basic**" to manually enter the points you wish to monitor.
- 2. Pre-configured points can be selected.



Basic points can be added manually. Preconfigured point properties can also be edited.



3. Adjust the settings for each point you wish to monitor. The right sidebar provides a detailed description of each field as it is selected.

	ATUS		Access Point Loca	I Network MQTT Status	0
I oTBuddy	LS				Renister Type
Configuration ~	1 Custom Register (CO2)				k Kegister type
Login Info	Register *	3	Register Count *	1	 The type of Modbus register to query.
Local Network	Topic *	C02	Rate of Publish *	300 (seconds)	connected device
Local Device	Register Type *	0x04 (Input)	Data Scale:	x1 (No Scale) 🗸	information.
IoT Connection ~	Precision	2	Data Type *	Int16 V	
IoT Setup	005	1	Retain *	Ves	
BAS Connection ~ Advanced ~	Basic y Default y	3. Set Point p	roperties in t	he boxes above. 4. Save Configuration Data.	
			Copyright © 2023 Sen	va Inc. All Rights Reserved.	

Data Point Settings (BACnet IP)

 This section covers the BACnet IP setup. Modbus TCP setup is covered in the next section. Under BAS Connection navigate to the "BAS Setup" tab. You may select the protocol from the drop-down menu. Set each of the BACnet IP Properties and select "Save". The default UDP Port for BACnet IP is 47808.

Configuration	Selection:	BACnet IP ~		QoS (Quality of Service)
Login Info	Activity Timeout:	20		 0 (At most once) 1 (At least once)
Local Network	Device			• 2 (Exactly once)
Local Device	Name:	IOTB-AP		NOTE: QoS 2 is not currently supported by AWS or Azure.
IoT Connection 🗸	Device		•	
BAS Connection ~	Description:	CO2-VAL POE IOT Buddy		
Configuration ~	Device Instance:	10		Welcome!
Login Info	UDP Port:	47808		displayed here as you navigate the SENVA
Local Network				IoTBuddy configuration settings interface.
Local Device	APDU Retry:	0		
IoT Connection ~	APDU			
BAS Connection ~	Timeout:	3		
BAS Setup	1		Save	
BACnet Objects				

This section covers manually adding BACnet IP Points. Loading points from a template is covered in the next section. Under **BAS Connection** navigate to the "**BACnet Objects**" tab. Click the "**New**" button to create a new point. Then select the new point and click the **eye icon** to open a new window. In the window, set the object Modbus RTU properties, then set the BACnet IP properties. Select "**Save**" to commit the changes. Select the "**Save**" loon to save the BACnet IP Points.



5. This section covers loading BACnet IP points from a template. Manually adding BACnet IP Points is covered in the previous section. Under BAS Connection navigate to the "BACnet Objects" tab. Click the "Upload Objects Template" button, then select the file to load and click "Open". This will load a list of points into the "Available Objects" list. Then select the points that you wish to add and select "Add". The Points will be added to the "Added Objects List". Select the "Save" Icon to save the BACnet IP Points. See the previous section for directions on editing BACnet IP point properties, deleting points, and saving a new BACnet IP object template file.



Data Point Settings (Modbus TCP)

 This section covers the Modbus TCP setup. BACnet IP setup is covered in the previous section. Under BAS Connection navigate to the "BAS Setup" tab. You may the protocol from the drop-down menu. Set each of the Modbus TCP Properties and select "Save".

Sense the Difference	STAT			
lõTBuddy	RAS Conno	action Info		
Configuration 🗸	BAS Colline			
Login Info	Protocol			
Local Network	Selection:	Modbus TCP ~		
Local Device	Activity	20	\triangleright	
IoT Connection 🗸	Timeout.	20		
BAS Connection v	Server Port:	502		
BAS Setup	1		Save	
BACnet Objects				

6. Under **BAS Connection** navigate to the "**Modbus Registers**" tab. This screen confirms that Modbus TCP connection is selected and active. The configuration for each point is detailed in the Modbus Setup on page 15 above.

I ot Buddy	
Configuration ~	You're all set!
Login Info	Module TCP requests are converted to Module RTII and vice versa for responses. Please consult the locally wired device's
Local Network	manual to find its available Modbus registers.
Local Device	
IoT Connection ~	
BAS Connection ~	
BAS Setup	
Modbus Registers	
Advanced ~	

Analog Settings (Local Device)

 Navigate to the "Local Device" tab. Select voltage or current from the dropdown and enter the range of the analog signal to be monitored on each channel. Channel A should correspond to your IoTBuddy's white wire and Channel B should be yellow. The Black wire is common/ground for both channels.

		etwork Channel A Raw: 0.00mA Channel B Raw: 0.00r	nA i
I oTBuddy	Channel A		Analog Channel
Configuration ~ Login Info Local Network	Source: Current	 Select signal type. Set Min and Max 	Please select whether to use voltage or current for Channel A and B.
Local Device IoT Connection ~ BAS Connection ~	Current Min: 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Ranges. 3. Scroll Down to set for Channel B.	
Advanced ~	Channel B	Save	4. Save Analog Configuration.
		Copyright © 2023 Senva Inc. All Rights Reserved.	

Navigate to the "IoT Setup" tab. If needed, configure IoT connection (See Data Point Settings- BACnet IP on page 13 or Data Point Settings- Modbus TCP on page 14). Then select the "IoT Message Configuration" tab. You may choose one of the pre-configured Senva devices from the dropdown or choose "Basic" to manually enter the points you wish to monitor. Make sure to assign readings to either Channel A or Channel B.

	TATUS	O Local Network	MQTT Status	ihannel A Raw: 0.00V	hannel B Raw: 0.00mA
I oTBuddy		1. A	ssign Analog	g Channel.	Retain
Configuration v Login Info	Channel *	A ~	Reading Min *	0	Setting the retain to "Yes" will signal the broker to store the last
Local Network	Reading Max *	2000	Topic *	Default	published message and the corresponding QoS
Local Device	Precision	2	Rate of Publish	3600 (seconds)	for that topic. • *Warning: Setting a
IoT Connection ~	QoS *	1 ~	Retain *	No ~	publish to retain for AWS or Azure could incur additional
		2. Set Ana	log Point Pr	operties.	charges.
BAS Connection ~ Advanced ~	Basic V De	fault V Add		Save	Configuration.
		C	opyright © 2023 S	enva Inc. All Rights Reserve	ed.

3. Once the points are fully configured, the raw Voltage for Milliamp readings from each channel can be read at the top of the page. The readings update when the page refreshes.



Loading Configuration/Firmware files into the IoTBuddy

Access and Steps

 Log in to the IoTBuddy (See the sections on Wi-Fi Connection or Ethernet/POE Connection in the table of contents section for more info). Then select the "Advanced" tab. In the "General" tab there are sections for loading either creating configuration files for download, uploading configuration files or loading firmware files.



App Provisioning of the IoTBuddy

Setup

- 2. Open the Senva Sync app available on the <u>Google Play Store</u> for Android or the <u>Apple App Store</u> for iOS.
- 3. Tap 'Scan Device' and place your phone's NFC adapter over IoT Buddy until a successful connection occurs and a green checkmark is displayed.



- 4. The device info will be displayed. Next tap 'Edit Settings'.
- 5. Log in using the IoTBuddy credentials. The defaults credentials are:
 - username: admin
 - password: admin
- 6. Credentials will be Verified.



- 7. Update available settings as needed.
 - a. For WIFI devices, available settings are:
 - i. Currently assigned IP addresses
 - ii. Login credentials for the IoTBuddy
 - iii. The Settings, Username, and Password for the IoTBuddy Access Point
 - iv. The Settings, Username, and Password for the Local Network WIFI
 - v. IP Addressing Settings, DHCP or Static Ip.
 - b. For ethernet and POE devices, available settings are:
 - i. Currently assigned IP addresses
 - ii. Login credentials for the IoTBuddy
 - iii. IP Addressing Settings, DHCP or Static Ip.
- 8. After changing the settings as needed, tap 'Save'. When prompted to write a device, tap 'Single Device'.

12:54 ♥ 🗵 👩 🕿 • 🛛 🐨 🖌 🗑 🖌 😭 72%	12:54 🗣 🕅 🙆 🛥 🔹 🗇 🐨 🛣 🗘	1:00 👻 🛱 🖾 🔹 🔹 🔷 🗣 🖬 72%
← Edit Settings	← Edit Settings	← Device Configuration
IOT Model: IOT-BW	IOT Model: IOT-BW	IOT ISTRUddy
System Info		Model #: IOT-BW Firmware Version: 2.0.15
Serial # 1048324 MAC Address 0C:8B:95:93:B8:28	Network Password	Write Continuously
IPv4 Address 10.73.10.135	Security Protocol WPA2 (PSK)	Do you want to write to a single device or
FE80::E88:95FF:FE93:B82	Addressing	multiple devices?
8	Address Assignment Dynamic	Single Device
IPv6 Global 0::0	Static IPv4 192.168.68.31	Multiple Devices
New Login Info	Static DNS 192.168.68.1	Cancel
New Username	Static Gateway 192.168.68.1	Signature rest (PDF
New Password		Calibration
Access Point	Static Netmask 255.255.255.0	
Revert All Save	Revert All Save	

9. Place your phone's NFC adapter over IoT Buddy to write the new settings to the IoTBuddy until a successful connection occurs and a green checkmark is displayed.



IP Address Retrieval using the Sync App

10. Wait at least 5 seconds for IoT Buddy to reboot after a write, then from the app's home page, tap 'Scan device'. Place your phone's NFC adapter over IoT Buddy until a successful connection occurs and a green checkmark is displayed.



- 11. The device info will be displayed. Next tap 'Edit Settings'.
- 12. Log in using the IoTBuddy credentials.

The defaults credentials are:

- username: admin
- password: admin
- 13. Credentials will be Verified.



14. The currently assigned IP addresses will be displayed at the top under 'System Info'.

IOT Model: IOT-BW					
System Info					
Serial # MAC Address	1048324 0C:8B:95:93:B8:28				
IPv4 Address	10.73.10.135				
IPv6 Link Local	FE80::E8B:95FF:FE93:B82 8				
IPv6 Global	0::0				