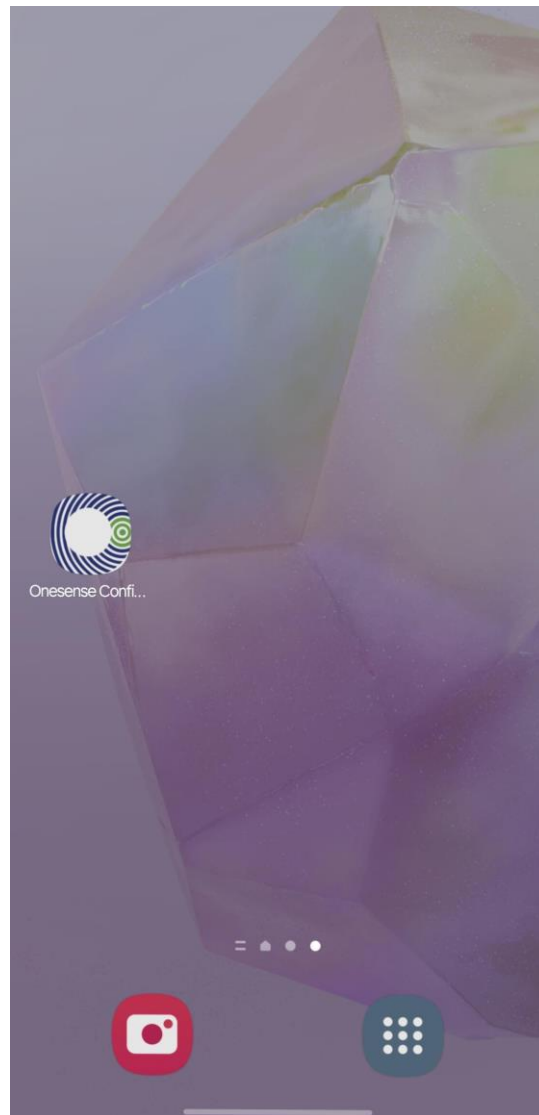


iOne Sense Config App - User Guide

1. Installation of OneSense Config Application on Android Mobile Phone

- Begin by installing the OneSense Config application on your Android mobile phone.
- Grant the necessary permissions for Bluetooth and location services.



1.Login Page

Select the desired environment:

- **Test:** OneSense Test IoT Hub
- **Production:** OneSense Production IoT Hub

Log in to the hub by entering the following information:

- Tenant Name
- Username
- Password



Welcome to OneSense

Sign in to continue

Environment

Standard

Production

Tenant

Enter tenant name

Username or Email

Enter username or email

Password

Enter password

Show Password

Sign In

2. Dashboard

Navigating to the Dashboard:

- Click on **Dashboard** to access the **Device Dashboard** page.
- The page displays a table with device details. If the table extends beyond the screen width, scroll horizontally to view the complete content.



OneSense Config 5.6



Bluetooth

QR

Logout



Dashboard



Network Check



Sensor Test












Configure












Exit

🔍 Search... Search

🔍 Search... Search

Device Name	Copy Primary Key
aaaremyatestsupport	
abidtest_device	
abidtesting	
abidtp2-7240	
abidtp7240	
Adapter_4567	
Adapter_7658	
Adapter_8756	
Adapter_9867	

Copy Primary Key	Location
	Acapulco
	Any Location 2
	Belgi
	Any Location 2
	Any Location 2
	Adelaide
	Brisbane
	Balga
	Beverley

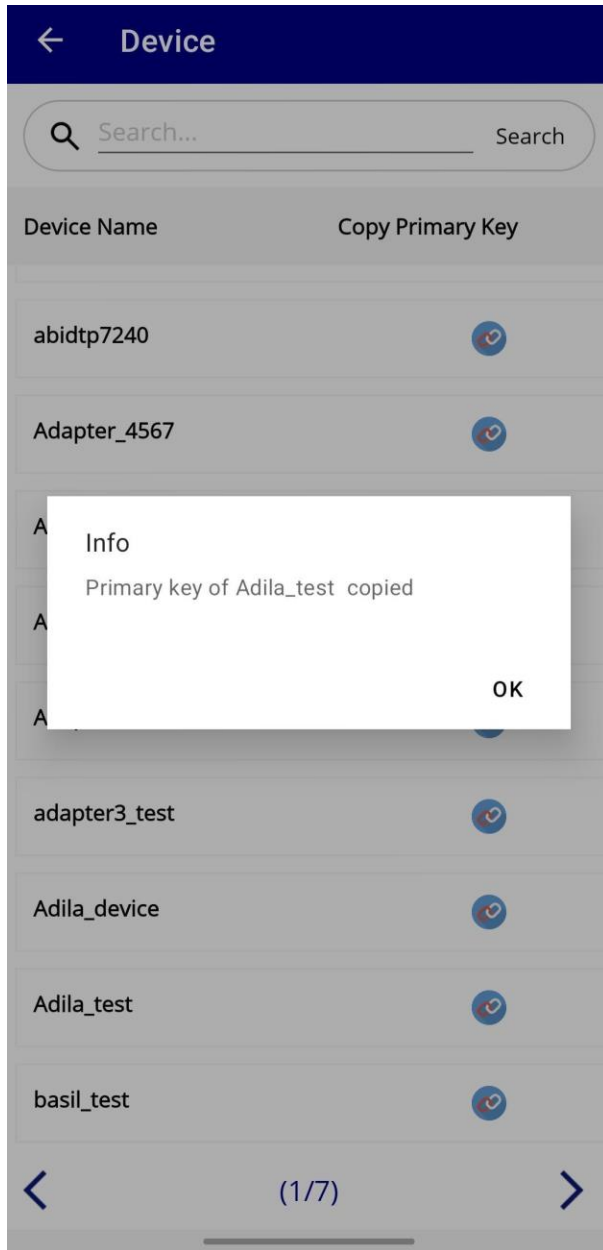
Device			Device	
Search...			Search	
Status	Connected Time	Last Activity	Last Activity Time	Creation Time
	-	-	-	Aug 12, 2024 07:24 am
	-	-	-	Aug 12, 2024 07:11 am
	-	-	-	Aug 06, 2024 03:43 pm
	-	-	-	Aug 05, 2024 04:45 am
	-	-	-	Aug 06, 2024 03:43 pm
	-	-	-	Aug 06, 2024 03:44 pm
	-	May 11, 202	May 11, 2025 09:59 am	May 13, 2022 05:02 am
	-	-	-	Dec 05, 2023 09:29 am
	-	May 14, 202	May 14, 2025 07:17 am	Nov 22, 2023 05:25 am

..

< (1/7) > < (1/7) >

Copying the Primary Key:

- Locate the device for which you want to copy the **Primary Key**.
- Click the **icon** next to the device to copy the Primary Key.





Navigating to the Device Page:

- Go to the Device Dashboard, locate your device, and click on its name.
- This will open the **Device Details Page**, where you can view aggregation data.
- Click on the chart menu to set the range and aggregation type.

← Device

🔍 adila × Search

Device Name	Copy Primary Key
Adila_device	
Adila_test	
testing_Adila	

← Device Dashboard

Adila_test
Martellago
May 02, 2025 05:13 am
Connected
Not Available

Bluetooth Action

Aggregation Chart Menu

Temperature
0.00 t
AVG value for Last 5 minutes

Line Chart Area Chart Bar Chart

Telemetry No Rules Available Chart Menu

← Chart Menu

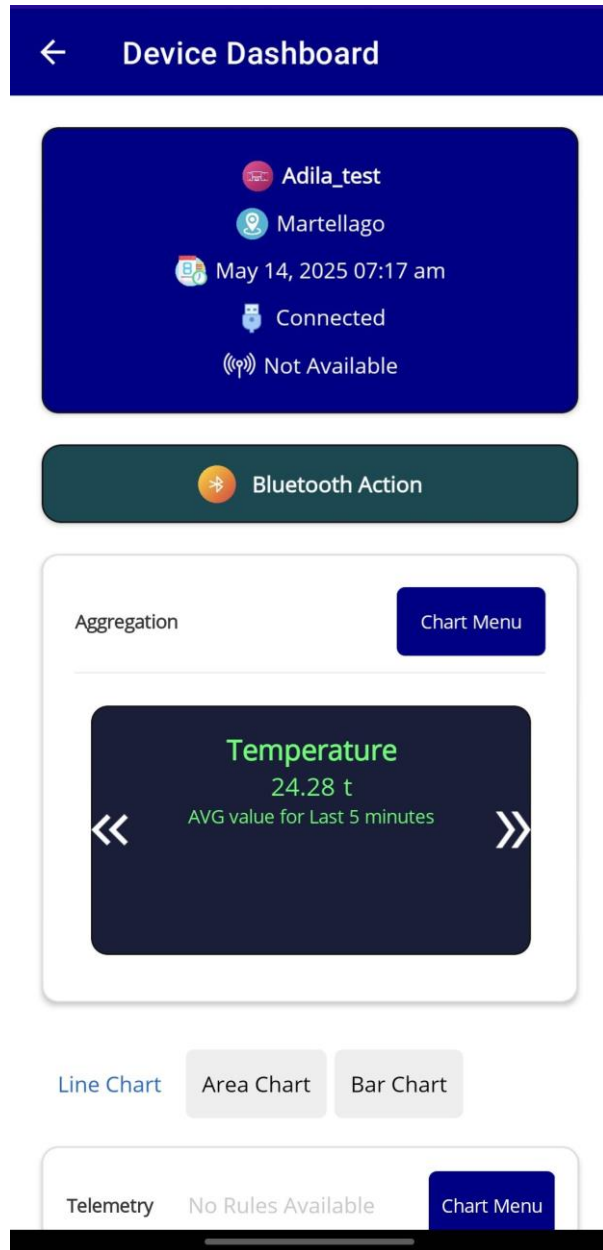
Dashboard Selection
 Historical Real-time

Select Range

- Last 5 minutes
- Last 10 minutes
- Last 15 minutes
- Last 1 Hours
- Last 3 hours

Cancel

- Noise
- Wind
- NET_Stat
- Latitude



Accessing Chart Options:

- Click the **Chart Menu** button to access range and aggregation settings.

- The chart area provides three display options:
 - **Line Chart**
 - **Area Chart**
 - **Bar Chart**

Selecting Data Mode - Historic or Real-Time:

- **Historic Mode:**
 - Select **Historic** from the chart menu.
 - You can choose data for up to the **last 3 hours**.
 - Adjust the aggregation settings, interval, and properties.
 - Click **Apply** to generate the chart.
- **Real-Time Mode:**
 - Select **Real-Time** from the chart menu.
 - Choose the desired properties.
 - Click **Apply** to view the live data chart.



Device Dashboard

Line Chart

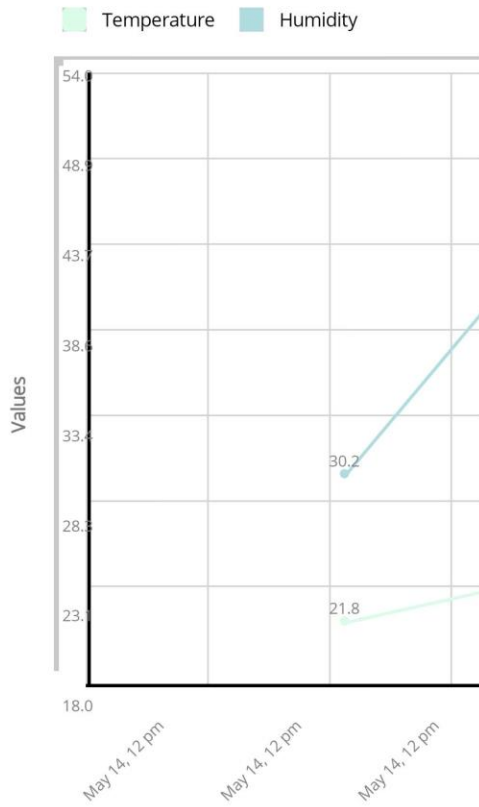
Area Chart

Bar Chart

Telemetry

No Rules Available

Chart Menu



Device Dashboard

Line Chart

Area Chart

Bar Chart

Telemetry

No Rules Available

Chart Menu

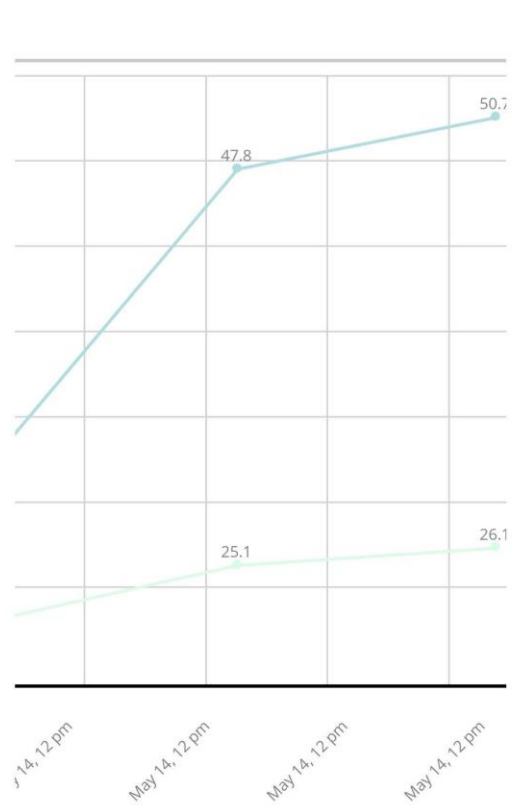


Chart Menu

Dashboard Selection

Historical Real-time

Range Selection

Last 5 minutes

Aggregation Interval

AVG 1m

Telemetry or Device Health

Telemetry

Properties

Search properties

- Temperature
- Humidity
- Voltage
- Current

Chart Menu

Range Selection

Last 5 minutes

Aggregation Interval

AVG 1m

Telemetry or Device Health

Telemetry

Properties

Search properties

- Temperature
- Humidity
- Voltage
- Current
- Rotation

Reset Apply

← Chart Menu

Dashboard Selection

- Historical Real-time

Range Selection

Last 5 minutes

Telemetry or Device Health

Telemetry

Properties

Search properties

Temperature

Humidity

Voltage

Current

Rotation

Reset

Apply

← Chart Menu

Dashboard Selection

Historical Real-time

Range Selection

Last 5 minutes

Telemetry or Device Health

Telemetry

Properties

Search properties

Temperature Loading...

Humidity

Voltage

Current

Rotation

Reset

Apply

← Device Dashboard

Line Chart

Area Chart

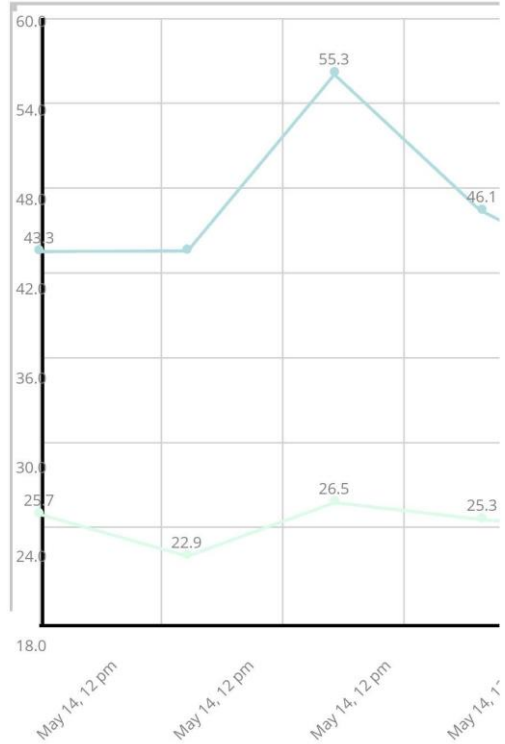
Bar Chart

Telemetry

No Rules Available

Chart Menu

Temperature Humidity

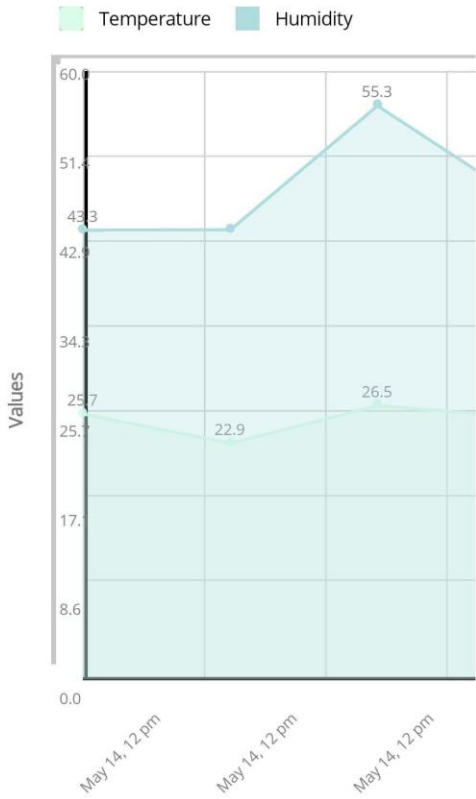


← Device Dashboard

Line Chart Area Chart Bar Chart

Telemetry No Rules Available

Chart Menu



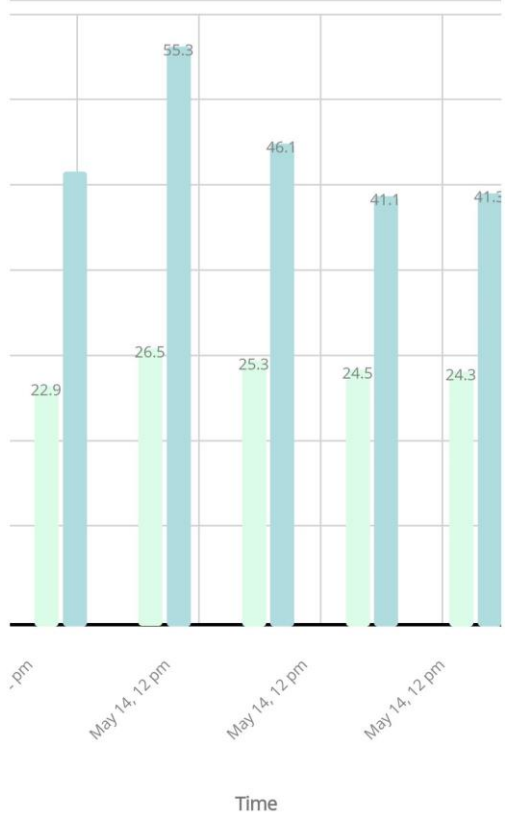
← Device Dashboard

Line Chart Area Chart Bar Chart

Telemetry No Rules Available

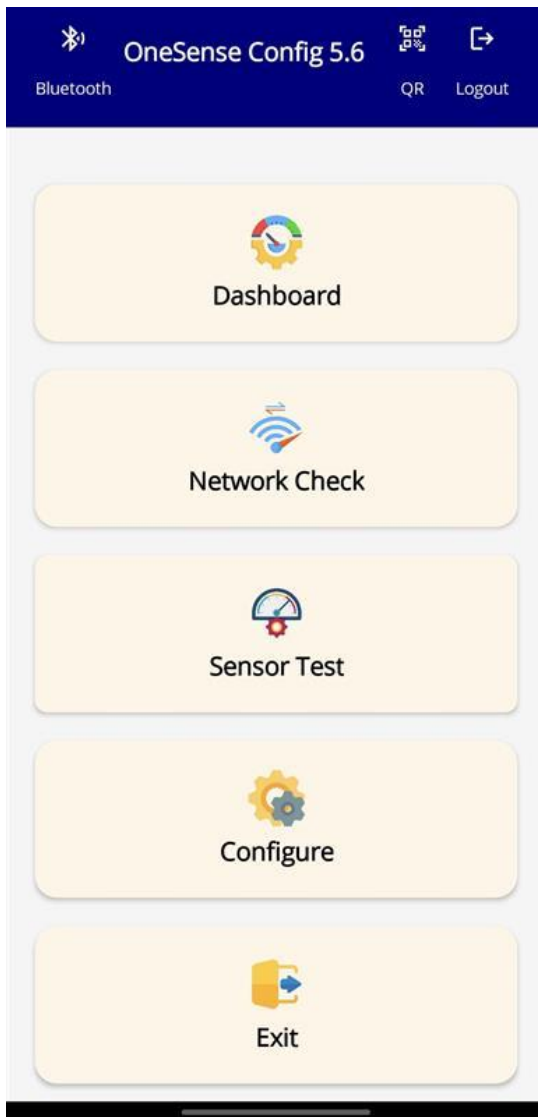
Chart Menu

perature Humidity



4. BLE Device List

- Click on the Bluetooth icon for ble connection
- Click the “scan” button to search for available BLE devices. Choose your PCB board from the list.



Scan for available devices

Available Devices!

gateway-0016c001f160f3fa

Choose Device Version

PCB0.5V2

PCB2V5

PCB2V6

PCB2V6A

PCB3V1

Cancel

Scan for available devices

Available Devices!

gateway-0016c001f160f3fa

PCB2V6A-7100001FC3CC0501

Bluetooth Connection

Connected Successfully to
PCB2V6A-7100001FC3CC0501

OK

5. Click Configure button

- Ensure the primary key is copied before navigating to the Configure page.
- If the connection is not active or the primary key is not copied, do not proceed to the next page.
- Enter the Wi-Fi details and click the **Send Primary Key** button.
- A confirmation message will appear asking for a Yes or No response. If Yes, the configuration process will begin.
- After a successful configuration, a pop-up will appear asking to **Restart** or **Network**.
 - If **Restart** is selected, the device will restart.
 - If **Network** is selected, the user will be redirected to the **Network Status** page. Wait for the network status update.
 - The **Restart** button will also be available on the Network Status page.



Bluetooth

OneSense Config 5.6



QR



Logout



Dashboard



Network Check



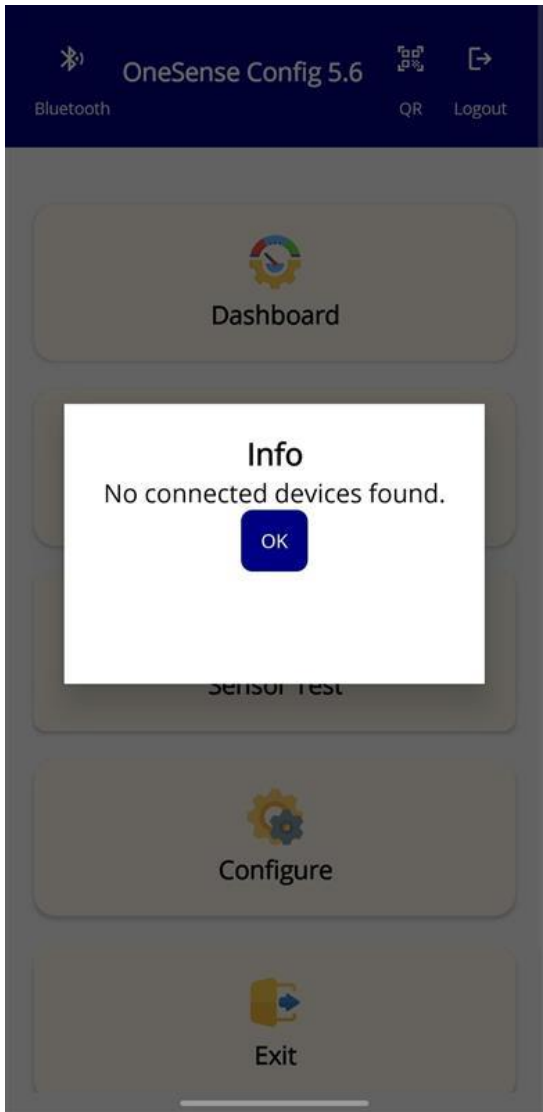
Sensor Test



Configure



Exit



Enter Wi-Fi SSID

Enter Wi-fi Password 

Message Interval in sec

Configure Security Keys

inthings

..... 

[X

Confirmation
Do you want to send this message?
SSID: inthings
Password: #{XCDY848;(9E%MI
Device: Adila_test
Tenancy: testzaintenant

No Yes



inthings

.....



5



Configuration

Configuration is successful.

OK

inthings

..... 🔒

5 ✕

Choose an action:

- Restart
- Network Check

Cancel

Network Status



Please wait... Checking network status.

Restart



Network Check

Network Status

- ✓ Cellular initializing...
- ✓ Cellular modem available
- ✓ SIM is ready.
- ✓ Signal quality is sufficient.
- ✓ Modem is registered on the network
- ✓ Entered CMUX Mode!
- ✓ Cellular initialization successful.
- ✓ Lora hardware initialized successfully

LIVE DATA

RSRP: -108.6

RSRQ: -20.0

RSSI: -67

SNR: 6

Restart



Network Check

Network Status

- ✓ Cellular initializing...
- ✓ Cellular modem available
- ✗ No SIM card detected.
- ✗ Cellular initialization failed.
- ✓ Lora hardware initialized successfully

Restart

6. Mapping Device

- Click the QR icon
- Once a QR code is scanned, the user is redirected to the UnMappedDeviceList page, where the device mapping process takes place.
- If the selected device's identity matches the connected Bluetooth device, you can map the selected device by confirming a dialog. If successful, the device is mapped.
- retrieving device details and navigating to a ConfigurePage if the device is mapped successfully.



OneSense Config 5.6



Bluetooth

QR

Logout



Dashboard



Network Check



Sensor Test



Configure



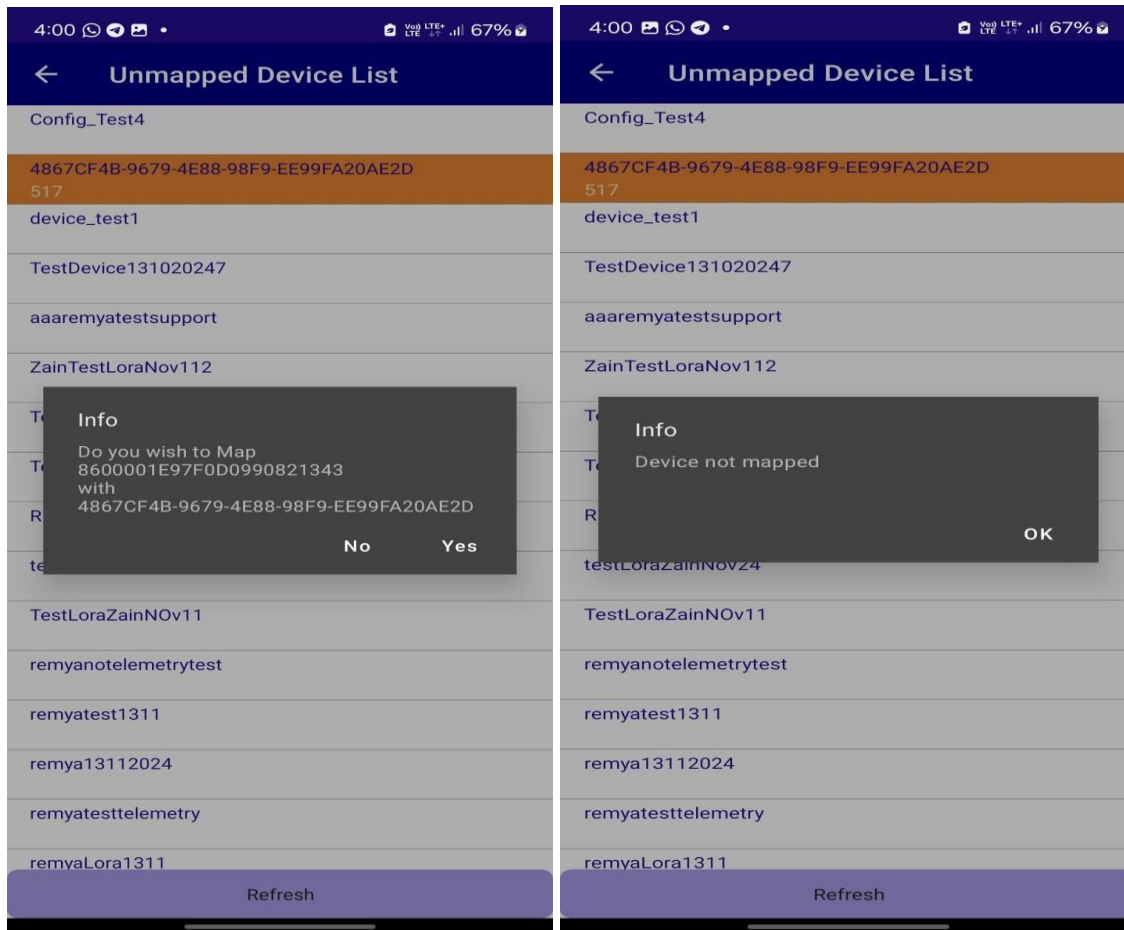
Exit



Warning

Bluetooth Not connected

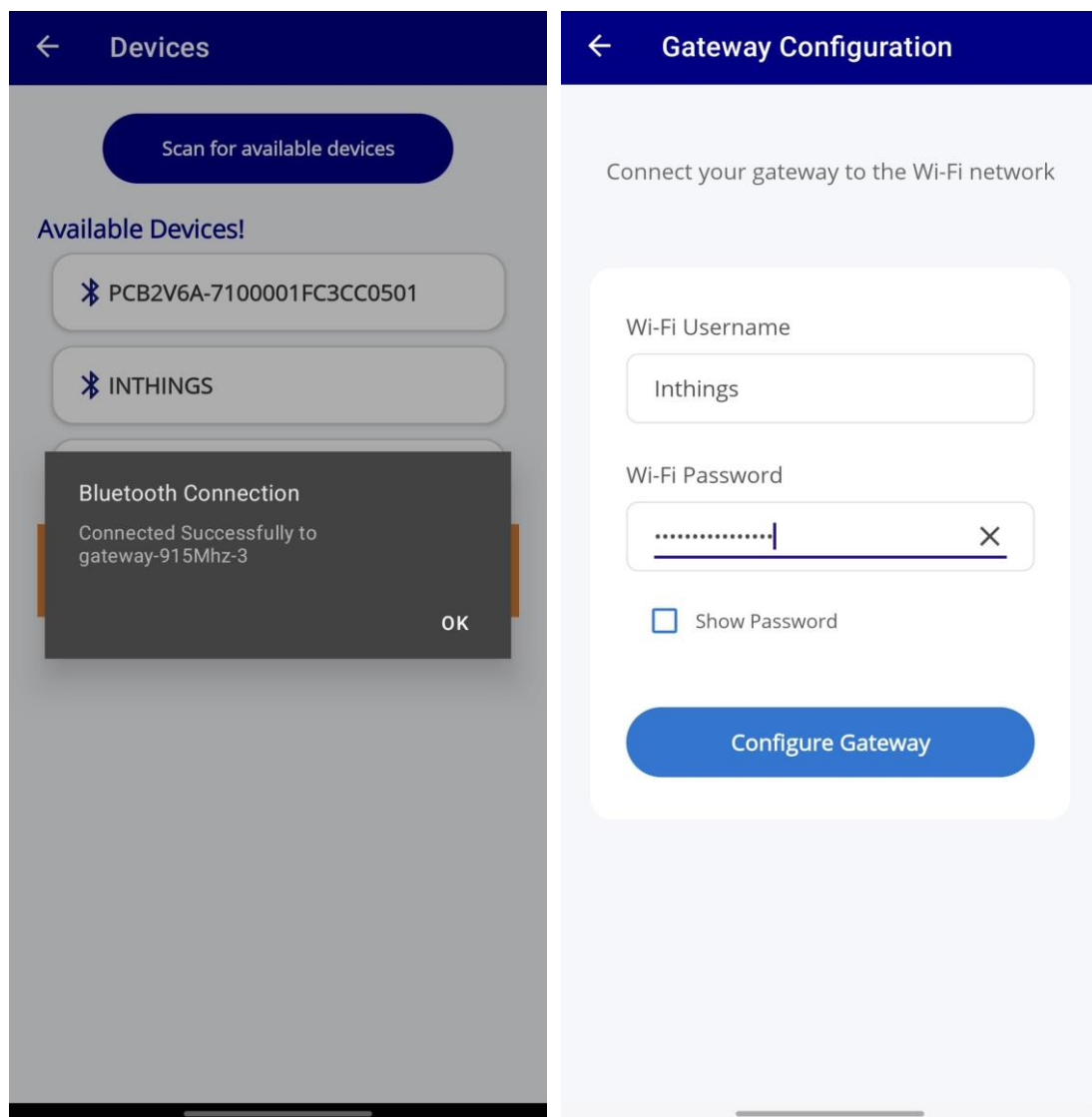
OK

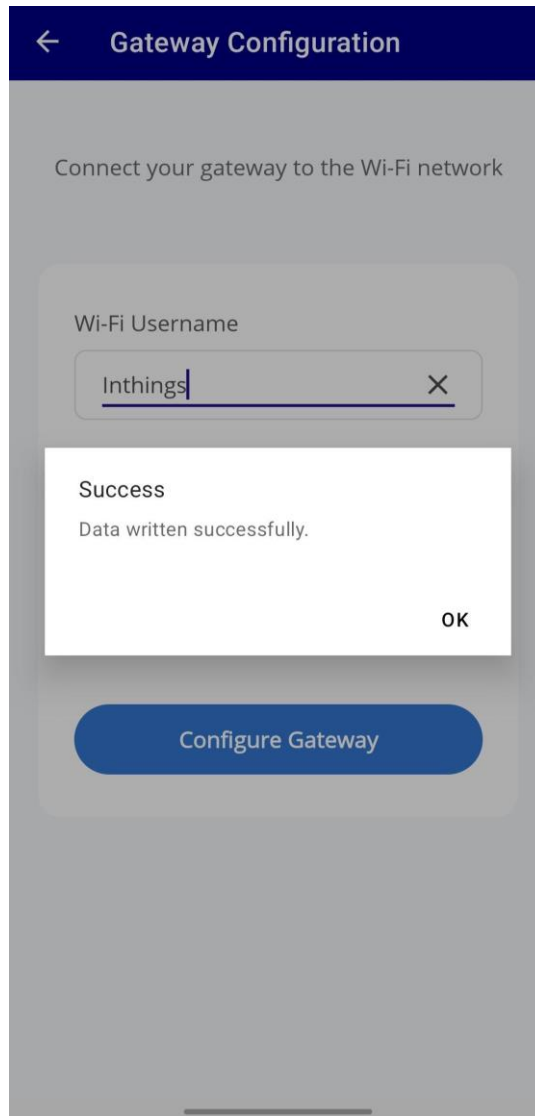


- If the device is already mapped, the app will stop the process and show you a message saying that the device is already mapped
- If the device is mapped successfully, redirect to the configure page

7. Gateway Configure

- If you select **Raspberry Pi**, you will be redirected to the **Gateway Configuration** page. Enter the Wi-Fi details and click the **Configure Gateway** button.





If you are connecting to STM Gateway, you will be redirected to the page where you need to enter the following information:

- **SSID** – Wi-Fi network name
- **PASSWORD** – Wi-Fi password
- **SERVER_ADDRESS** – Address of the LoRaWAN network server
- **NET_Prio** – Network priority (Wi-Fi, Ethernet, or GSM)
- **CONNECTION_STRING** – IoT Hub connection string
- **API_KEY** – The API key from The Things Network (TTN) for gateway authentication

Scan for available devices

Available Devices!

📶 INTHINGS

📶 gateway-0016c001f160f3fa

Bluetooth Connection
Connected Successfully to gateway-0016c001f160f3fa
OK

Connected to: gateway-0016c001f160f3fa

Wi-Fi Configuration

SSID (Wi-Fi Network Name)

Enter or select Wi-Fi network name

PASSWORD

Enter Wi-Fi password

Show Password

Network Configuration

SERVER_ADDRESS

Enter or select LoRaWAN Network Server

NET_Prio (Network Priority)

wifi

Authentication

CONNECTION STRING (IoT Hub)



Gateway Configuration

Enter Wi-Fi password

Show Password

Network Configuration

SERVER_ADDRESS

Enter or select LoRaWAN Network Server

NET_Prio (Network Priority)

wifi

Authentication

CONNECTION_STRING (IoT Hub)

Enter or select IoT Hub connection string

API_KEY (TTN Authentication)

Enter or select TTN API key

Save Configuration

← Gateway Configuration

.....

Show Password

Network Configuration

SERVER_ADDRESS

info

Inthings,#{XCDY848;(9E%Ml,wifi,HostName=inthingstesthub.azure-devices.net;DeviceId=stm32gateway2;SharedAccessKey=MsnTTwcTy2b4kIVC7sdc00=,NNSXS.YQG7YKJB4A.F5J7TQ7XDHSI3QVJYNOQPCKRIOVU27W43AG6ZPJGIEDTPGJWM54A

ok

CONNECTION_STRING (IoT Hub)

haredAccessKey=MsnTTwcTy2b4kIVC7sdc00=

API_KEY (TTN Authentication)

PKRIOVU27W43AG6ZPJGIEDTPGJWM54A ✕

Save Configuration

← Gateway Configuration

.....

Show Password

Network Configuration

SERVER_ADDRESS

eu1.cloud.thethings.network

Success

Data written successfully.

OK

Authentication

CONNECTION_STRING (IoT Hub)

haredAccessKey=MsnTTwcTy2b4kIVC7sdc00=

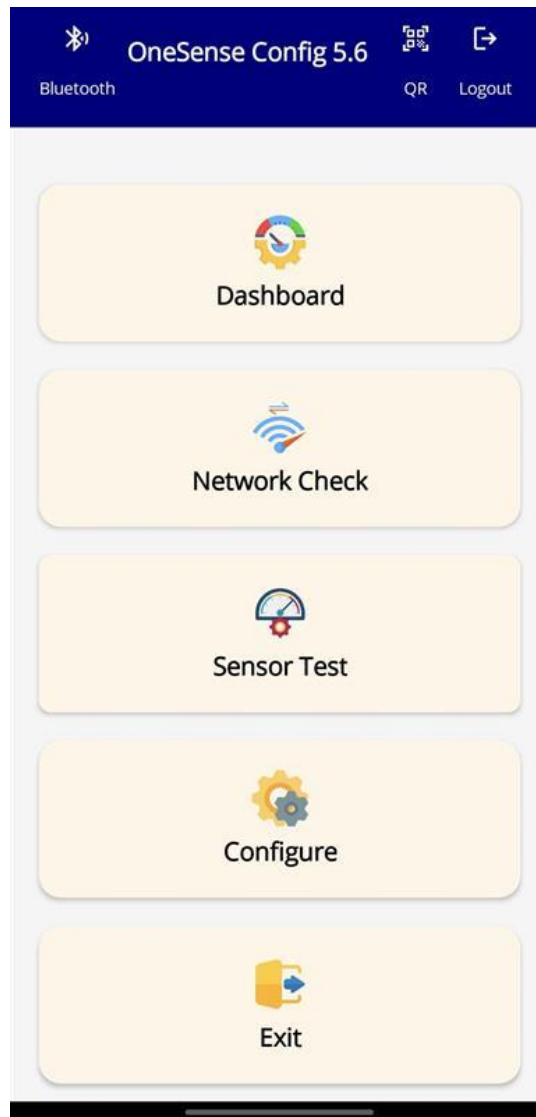
API_KEY (TTN Authentication)

!PCKRIOVU27W43AG6ZPJGIEDTPGJWM54A X

Save Configuration

8.Sensor Configure

- Ensure the connection is active and the primary key is copied before proceeding to the next step. If the connection is not active or the primary key is not copied, do not navigate to the next page.



← Sensor Details

ORP

orp_baud_rate:

9600

orp_delay:

1

orp_flag:

1

orp_slave_id:

3

pH

ph_baud_rate:

9600

ph_delay:

1

ph_flag:

1

← Sensor Details

4

vibration

limit_x:

10

limit_y:

10

limit_z:

10

vibration_baud_rate:

9600

vibration_flag:

1

vibration_slave_id:

68

Test Sensors

- displaying sensor properties
- Sends sensor details to a connected Bluetooth device and updates results on a result page.

The screenshot displays a mobile application interface for sensor data. At the top, a dark blue header bar contains a back arrow and the text "Sensor Result". Below this, the title "Sensor Details" is centered. A table lists sensor information:

Sensor Name	Slave ID	Baud Rate
ORP	3	9600
pH	2	9600
turbidity	4	9600
vibration	68	9600

Below the table, the section "Readings" is titled. Another table shows the current sensor readings:

Sensor Name	Reading Value
ORP	sensor not detected
PH	sensor not detected
TURBIDITY	sensor not detected
VIBRATION	
X_value	-0.021
Y_value	-0.135
Z_value	0.992

At the bottom of the screen, a dark blue button labeled "Go to Configure" is visible.

- The sensor data updates in real time. If there's a new reading from the device, the page updates the displayed information immediately without requiring the user to reload or refresh.
- And click the button go to configure

