



VISION GROUP

Smart Cooler Installation

Android Installation Guide
Jun 2025

APPLICATION FEATURES

- ✓ **ASSOCIATION** – To Associate the Smart Device and Remove the association with the Cooler.
- ✓ **DEVICE SCANNING AND CONFIGURE** – To check Device Advertisement and Configure.
- ✓ **DFU** – Direct Firmware Update of Smart Devices.
- ✓ **DATA DOWNLOAD AND UPLOAD** – To Download and Upload data of the Smart Devices
- ✓ **FIX FAULTY DEVICES** – To Fix the Faulty Devices.
- ✓ **TEST AND VERIFY** – To verify the Faulty Device after the Fix.



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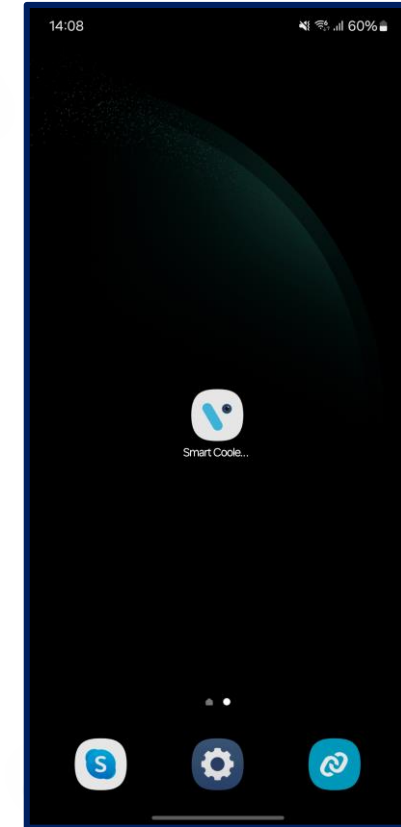
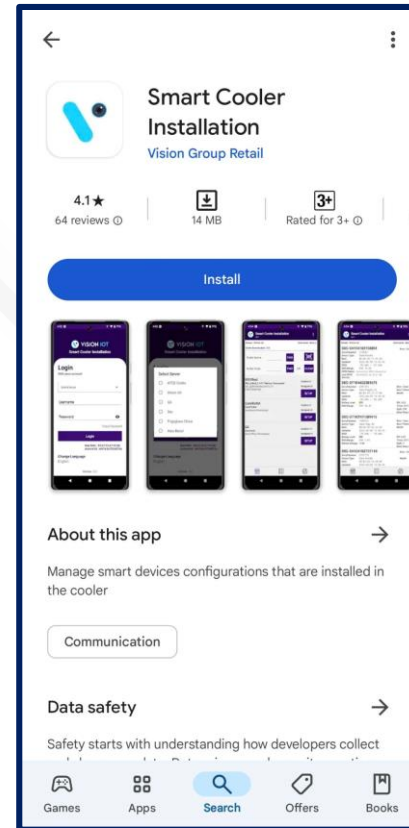
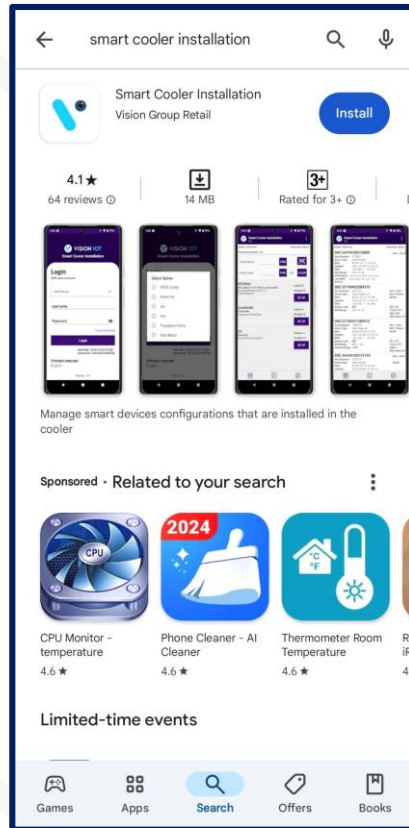
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APPLICATION INSTALLATION

Please remember the following instructions: Open the Play Store on an Android device. Search for the "SMART COOLER INSTALLATION" application and install it.

Remember to delete the previous version of the application before installing a new version.



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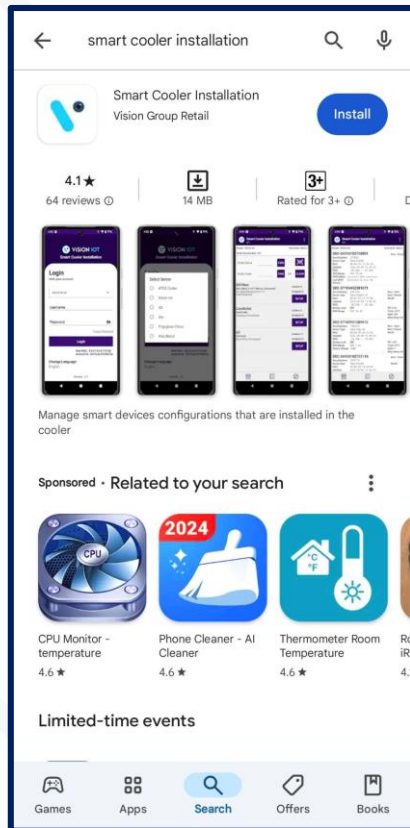
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APPLICATION PERMISSION

After initial Installation & launch, the Application will ask for permission to access. Camera Permission, File and Media Permission, Location Permission, Nearby Device Permission Need to Allow.

Choose Server: The server should be ATOS Codex for CCH, and another server should be chosen for other customers and QA.



LOCATION PERMISSION

- For Location (so beacons can be found) - **Choose Allow While Using** for Android OS 9 and Above.
- Then Go to the Settings > Application List > Location > Allow Location Access option is "Always".

NOTIFICATION PERMISSION

- Send notifications (to inform of data download) -> Choose "Allow"

BLUETOOTH PERMISSION

- Access the Bluetooth (to scan barcodes) – the first prompt on the Outlet screen -> Choose "OK".



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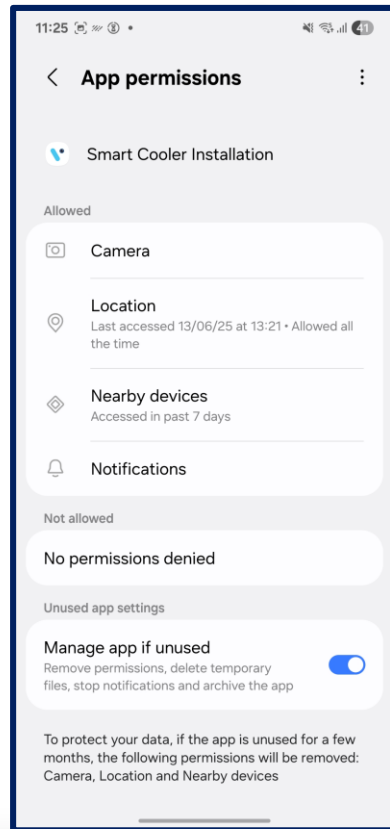
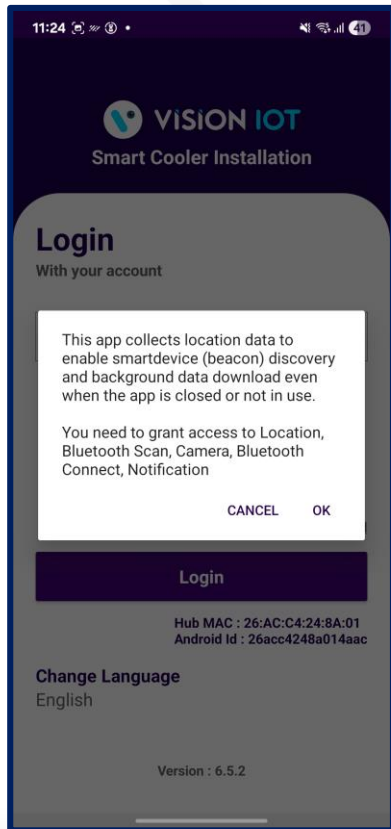
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LOGIN

After successfully installing the Smart Cooler Installation Application, open it, and it will redirect you to the Login Page. Select the server from the server list and Login in the application using the credentials provided by your administrator after successful login.

Remember to ensure Bluetooth & Mobile Wi-Fi or Mobile Data are ON in the device.



- Bluetooth also should be enabled as well as location services.
- The application requires an internet connection for initial login.
- After the initial log in the application can work in Offline mode provided that the same username & password as the one in the online login is used.
- Minimum device requirements – Device Has RAM 4 GB and above and Bluetooth Version 4.2 and above.
- The Minimum OS version of mobile is OS 10 and Above.
- The Change from v. 5.1 is that All data (outlets, assets, remote commands, firmware) is downloaded After showing the Outlet



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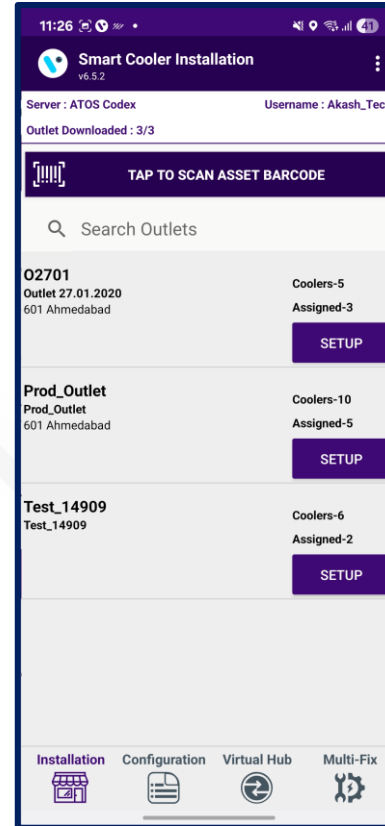
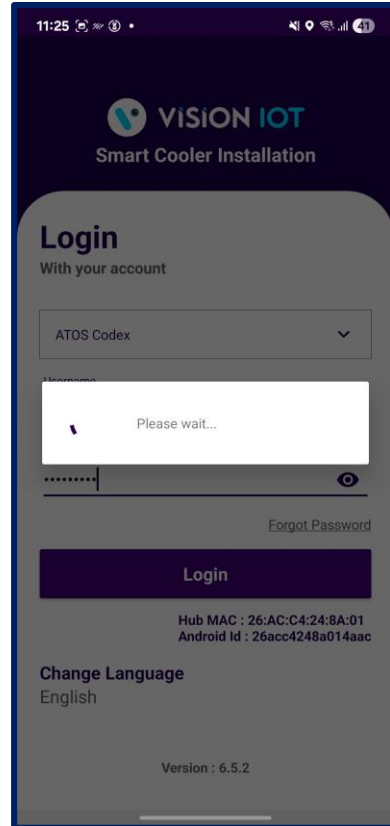
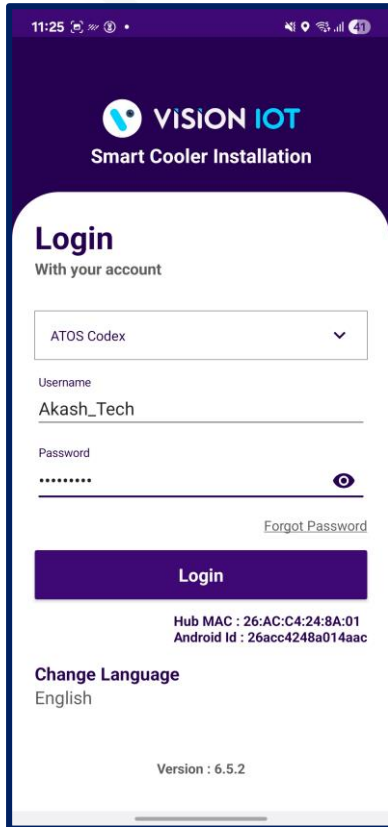
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LOGIN (CONT'D)

Provide valid credentials and tap on the Login button, please be advised that the application will need some time to download data from the cloud.



Note

Internet connectivity is required during login otherwise login will fail, and the application will show network errors.



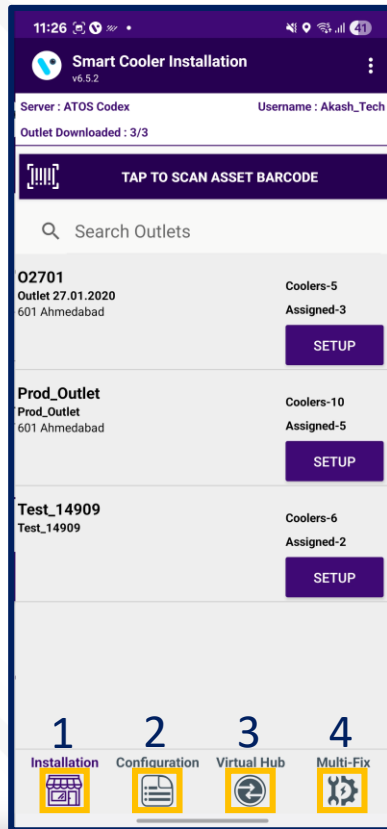
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APPLICATION FUNCTIONS



1. Association Screen - Use for associating and Removing Associations.

2. Configuration Screen - Use to check the Device Advertisement and configure it.

3. VH Screen - Use for data download and upload to the Server.

4. Multi-Fix Screen - To Fix the Faulty Devices.



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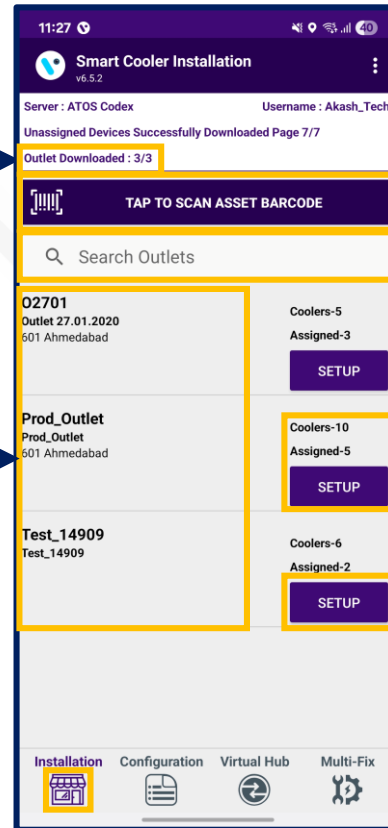
ASSOCIATION SCREEN

Click on the Association Icon to move to the Association Screen.

Total # of outlets in BD territory and how many have been loaded, outlets are loaded at startup.

On successful login, a list of outlets will be shown.

Only Assigned User outlets will be shown, for each one the Outlet name, address & code will be displayed.



Use this box to quickly search for the Asset Serial. If a cooler is found the association menu for this cooler will be shown.

Use this box to quickly search for the Outlet Code or Outlet Name. If an Outlet is found the result of the Outlet will be shown.

Coolers - 10

Shows the number of coolers in the outlet.

Associated - 3

Shows the number of coolers already associated/ provisioned.

Tap on Setup to enter the Outlet and view assigned and unassigned Coolers.



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CONFIGURATION SCREEN

Click on the Configuration Icon to move to the Configuration Screen.

Smart Device # – Smart Device Serial Number

Smart Device Type – Type of Smart Device

MAC Address – Smart Device's MAC Address

Updated – Last Update Time while Device found in Scan

RSSI – Range of Smart Devices in dB

Battery Level – Smart Device Battery Level(Green > Orange > Yellow > Red)

RSSI Range – Range of Smart Devices in meters

iBeacon Frame – Smart Devices iBeacon Advertisement Frame(Showing if Enable)

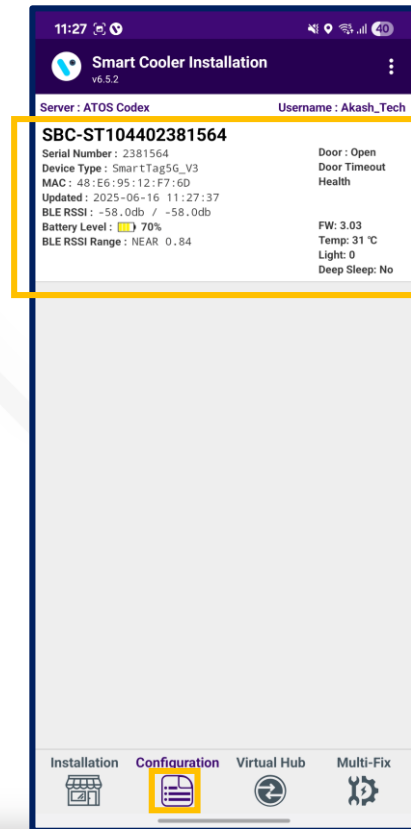
Major – Smart Device iBeacon Major value

Minor – Smart Device iBeacon Minor value

TX – Smart Device Transmit Power value

Distance – Range of Smart Devices in meters

UUID – Smart Devices iBeacon UUID Value



Standby – Flag Showing if Device is in Standby Mode

Door – Flag of Door Status is Open / Close

Health – Flag of Health if available for Smart devices

Pic – Flag of Image if available for Smart devices

FW – Firmware Version of the Smart device

Temp – Current temperature Value of Cooler

Light – The light Status of the Cooler

Deep Sleep – Flag Showing if Device is in Deep Sleep Mode



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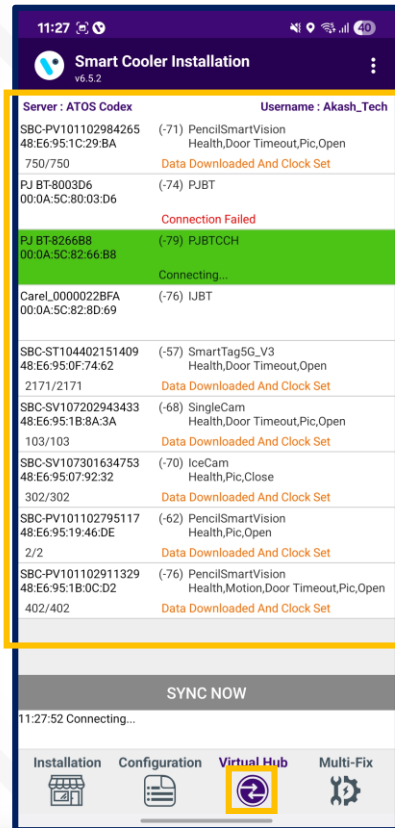
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VH SCREEN

Click on VH Icon to move to VH Screen.



- Showing the Nearest Whitelisted Devices here for which the Application Can download the Smart device's Data and Upload it to the Server.
- In each Smart Device Type, Sensor Data Flags, MAC Address, Smart Device Serial, etc. Information is showing.
- The operation status of each Smart device is performed by Application-like Connection > Data Download > Data Upload Status showing.



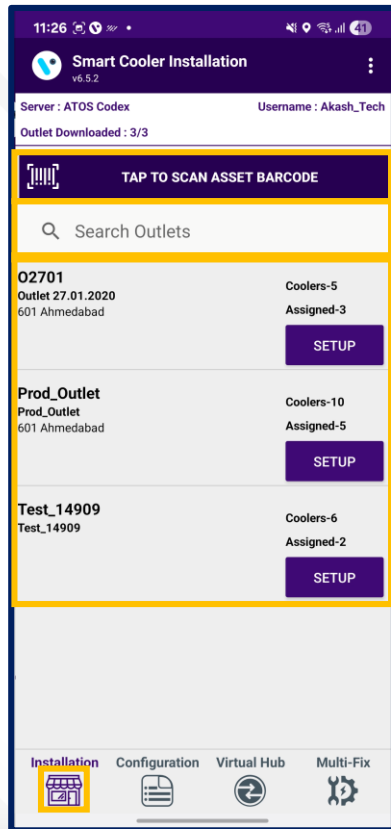
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ASSOCIATION PROCESS



A. Selecting Asset – Using Barcode Scanning:

1. Click on the Barcode icon, Barcode scanning window will open.
2. Scan the cooler barcode using the barcode scanner – Position the camera of the mobile device in such a way that the barcode of the Cooler (Technical ID) is in the box.
3. Outlet will automatically be selected, and a menu will be shown for choosing the device that will be installed.

B. Alternative – Selecting Outlet by entering Outlet Code or Name:

1. If Scanning of the Cooler serial is not possible enter either the Outlet Name or Outlet Code and Tap on “Find”.

C. Alternative – Selecting Outlet – Manual selection of cooler

1. If Scanning of the Cooler serial is not possible and the outlet code/name is not known, the User can manually select the outlet.



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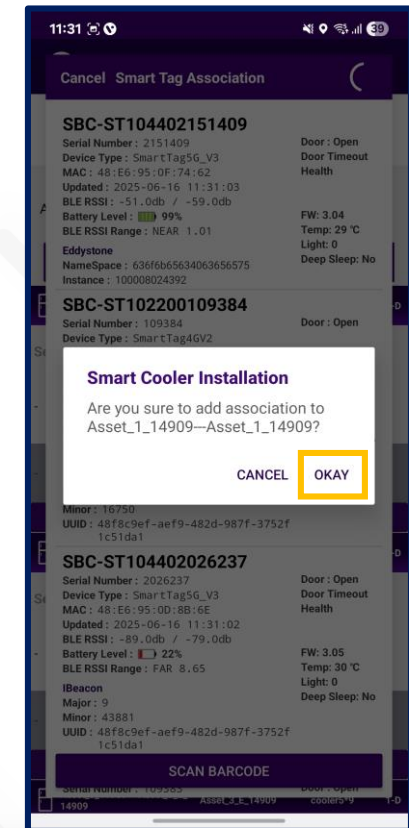
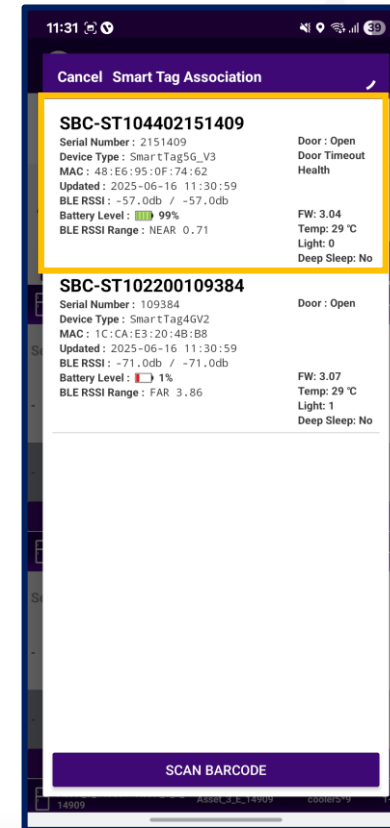
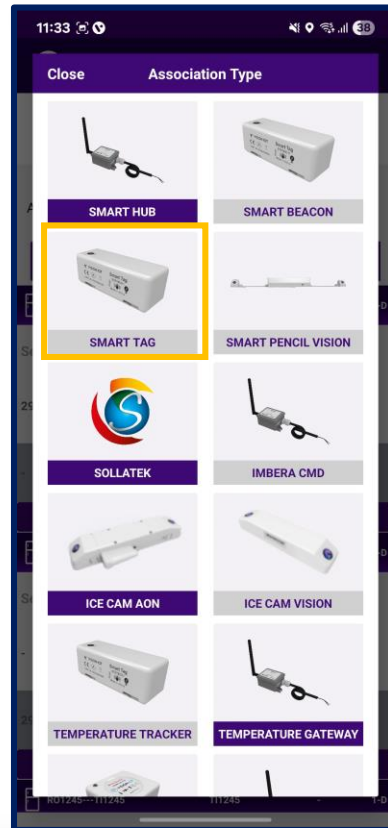
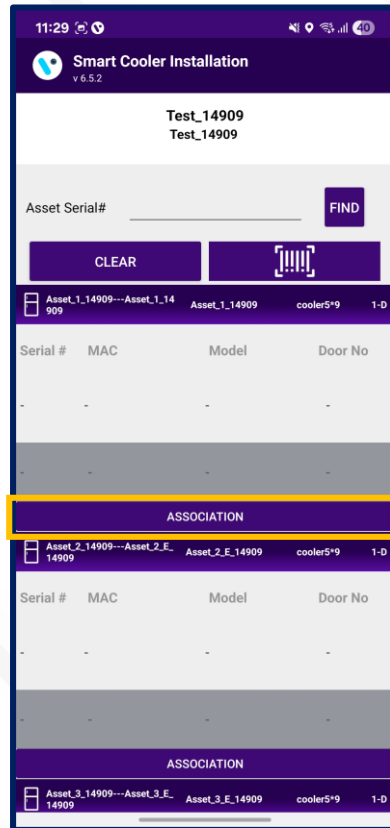
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ASSOCIATION – SMART TAG

1. **Selecting Cooler** - A new window will open allowing the User to select the cooler for the outlet selected manually. Click on “Association” to choose the asset to install.

2. **Selecting Smart Device type** - A new window will open to ask for the selection of device types to be associated with. Click on “SMART TAG ” to Associate the SmartTag device.

The user will see a list of unassociated devices; the User can use the door status to identify the installed device.



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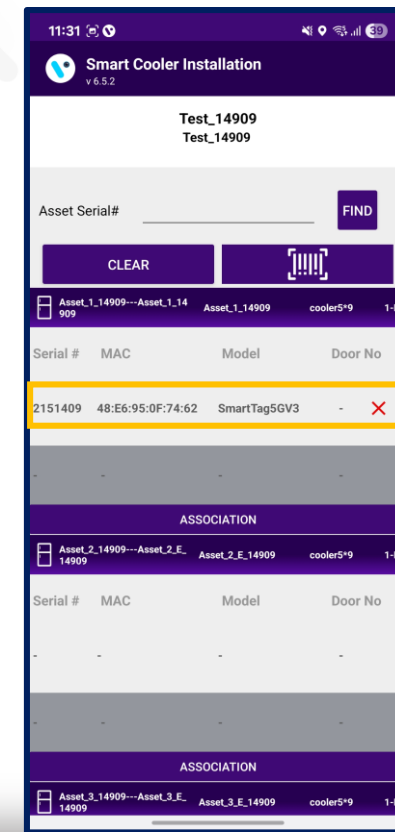
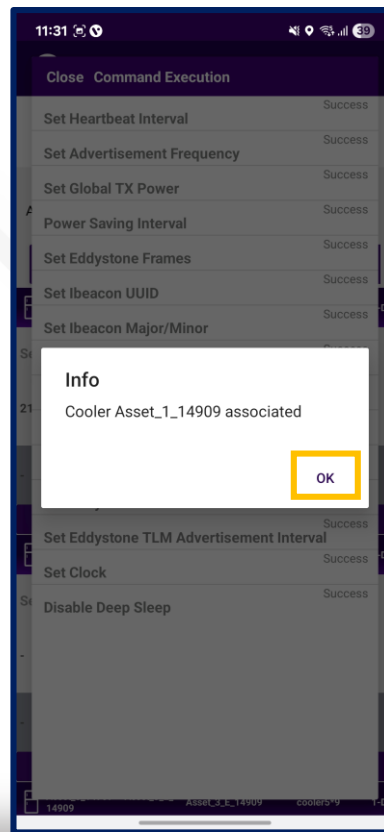
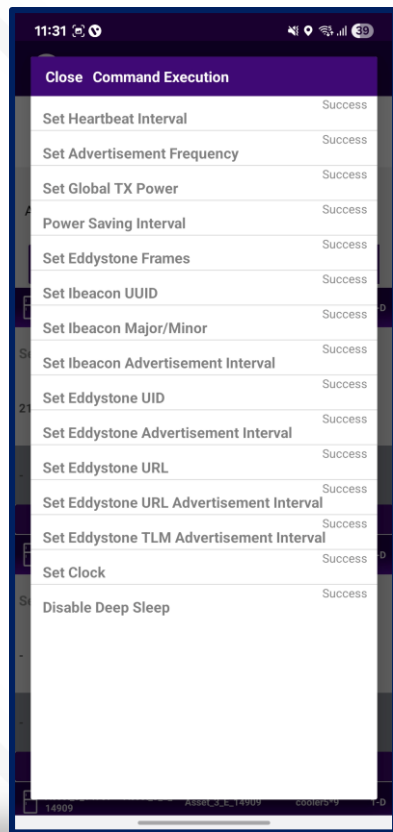
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ASSOCIATION – SMART TAG

3. Selecting the Device to do the association with - After identifying the device, select the device to start Installation, App will give a popup to confirm the association, Click on OK to confirm. When the process is completed, the User will be returned to the Outlet Screen, and now the User see that the Proximity / Smart Tag is associated with the Cooler.

4. Smart Device Configuration Setting - On selection of the device, the application will connect to the device, make all configuration changes and provide status a success message will appear after successful association, press OK to close the popup. When this window appears the device is provisioned, and the User can press close to return to the outlet screen.

Note: Please note the device only wakes up when the cooler Door is Closed for 15 seconds.



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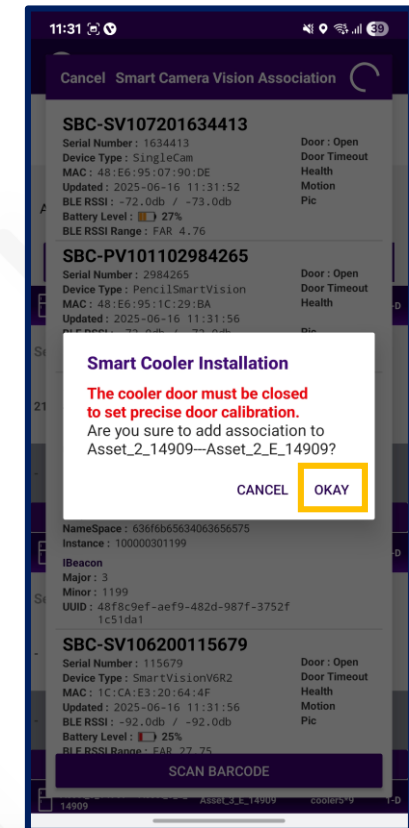
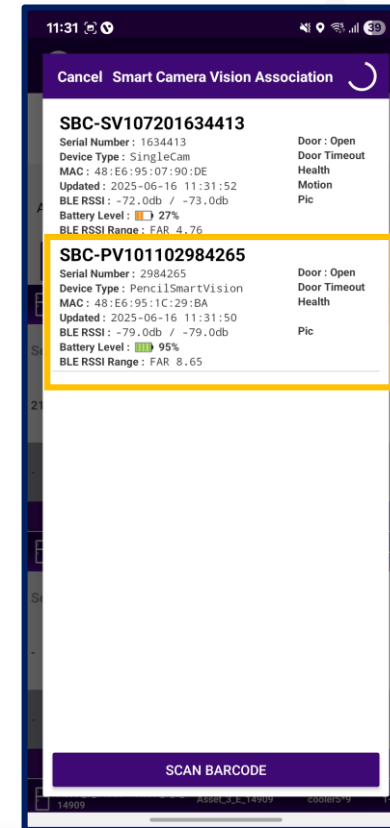
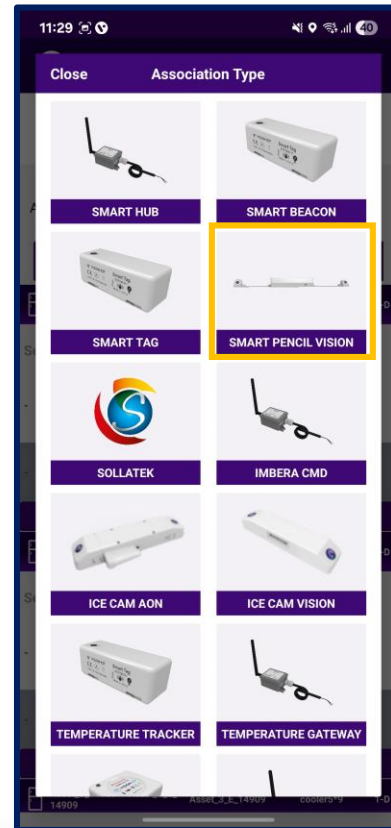
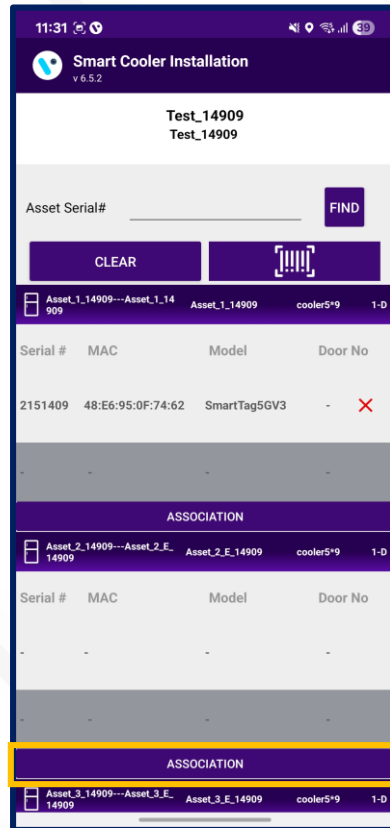
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ASSOCIATION – SMART VISION

1. **Selecting Cooler** - A new window will open allowing the User to select the cooler for the outlet selected manually. Click on “Association” to choose the asset to install.

2. **Selecting Smart Device type** - A new window will open to ask for the selection of device types to be associated with. Click on “SMART VISION ” to Associate the SmartVision device.

The user will see a list of unassociated devices; the User can use the door status to identify the installed device.



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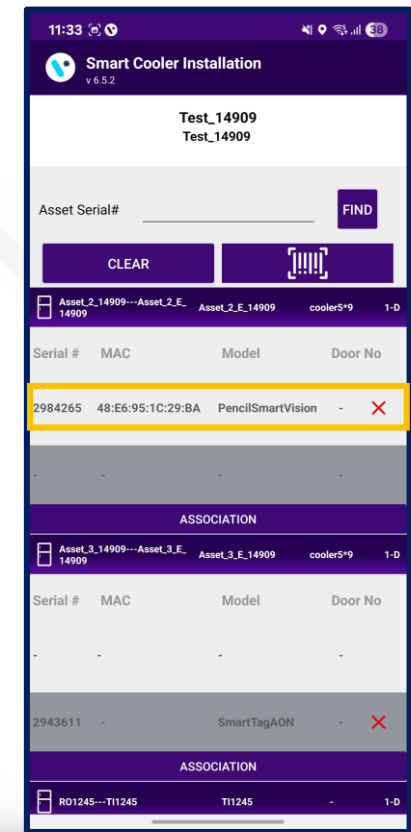
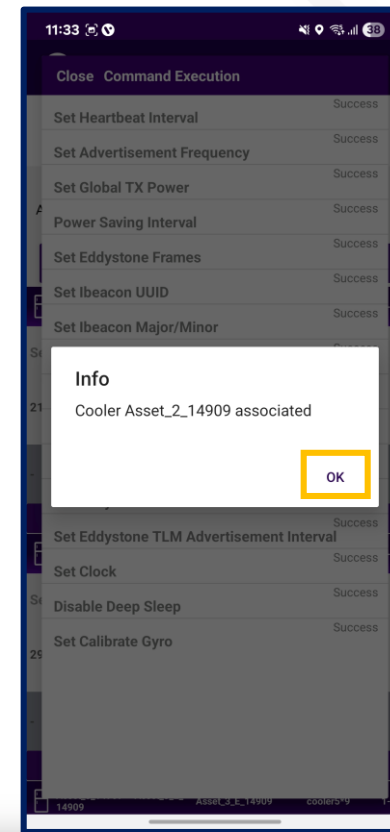
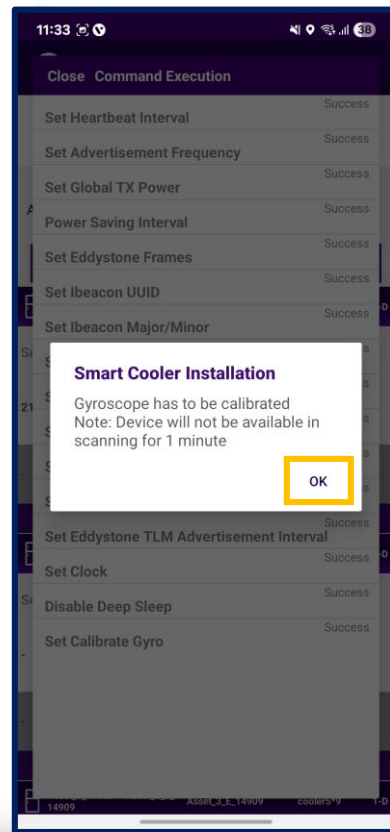
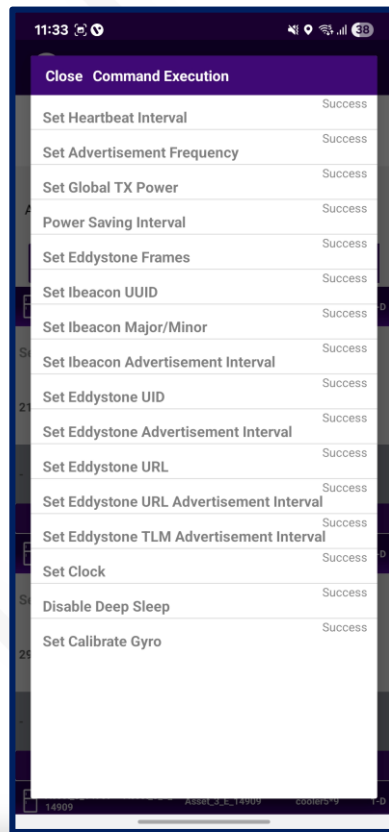
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ASSOCIATION – SMART VISION

3. Selecting the Device to do the association with - After identifying the device, select the device to start Installation, App will give a popup to confirm the association, Click on OK to confirm. When the process is completed, the User will be returned to the Outlet Screen, and now the User see that the Smart Vision is associated with the Cooler. When this window appears, the device is Gyroscope calibrated, and the user can press OK to return When the door closes, a screen pop-up will show, click on OK.

4. Smart Device Configuration Setting - On selection of the device, the application will connect to the device, make all configuration changes and provide status a success message will appear after successful association, press OK to close the popup. When this window appears the device is provisioned, and the User can press close to return to the outlet screen.

Note: Please note the device only wakes up when the cooler Door is Closed for 15 seconds.



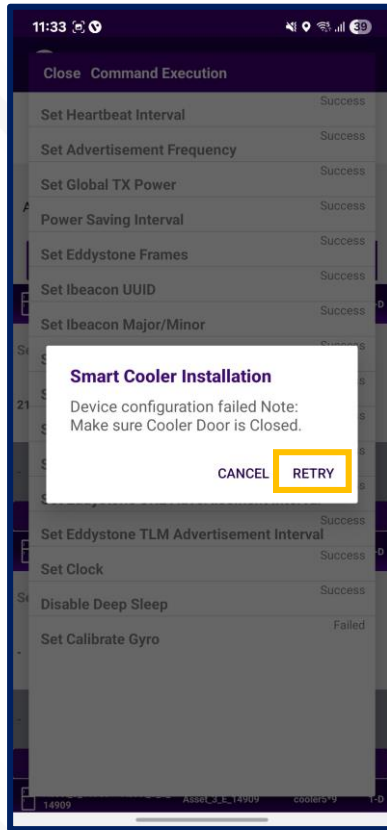
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In case the gyro command is not getting a successful response, and it shows waiting or failed.



Waiting

Users can wait for 1 min and if the pop-up does not show then try again.

Failed

Check the door status if it's "Open" then close the door and Tap on the "Retry".



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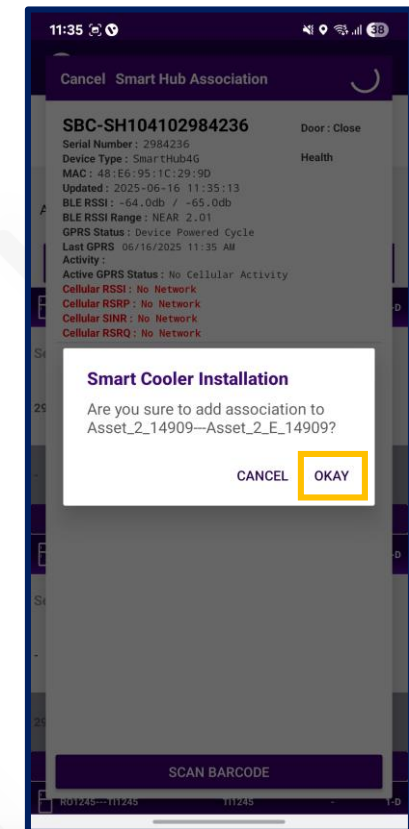
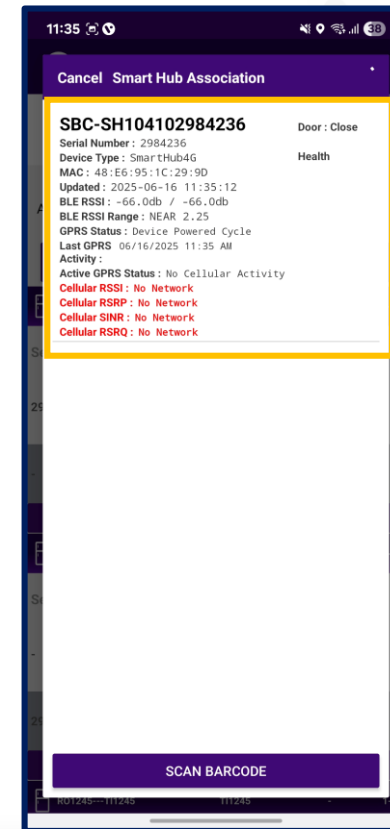
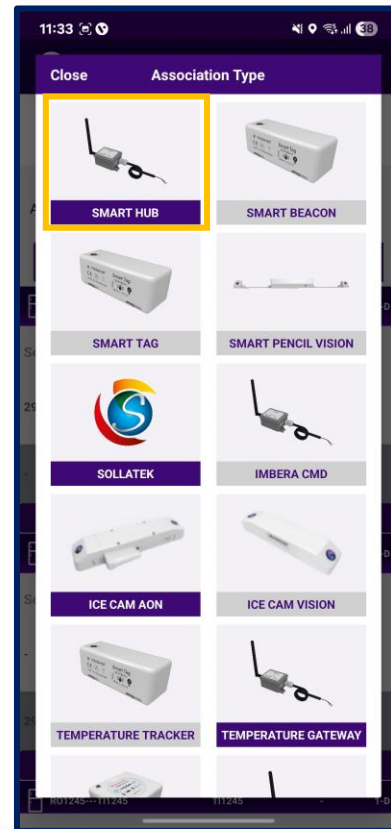
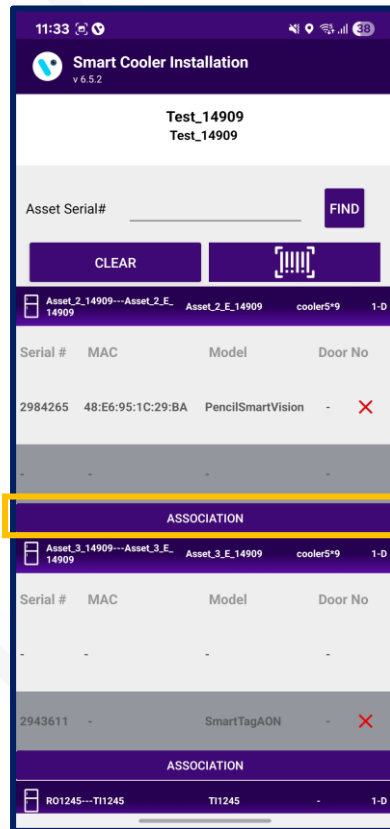
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ASSOCIATION – SMART HUB

1. **Selecting Cooler** - A new window will open allowing the User to select the cooler for the outlet selected manually. Click on “Association” to choose the asset to install.

2. **Selecting Smart Device type** - A new window will open to ask for the selection of device types to be associated with. Click on “SMART HUB ” to Associate the SmartHUB device. Now Power on the Smart HUB device.

Note: Please note the gateway device is powered on at association time.



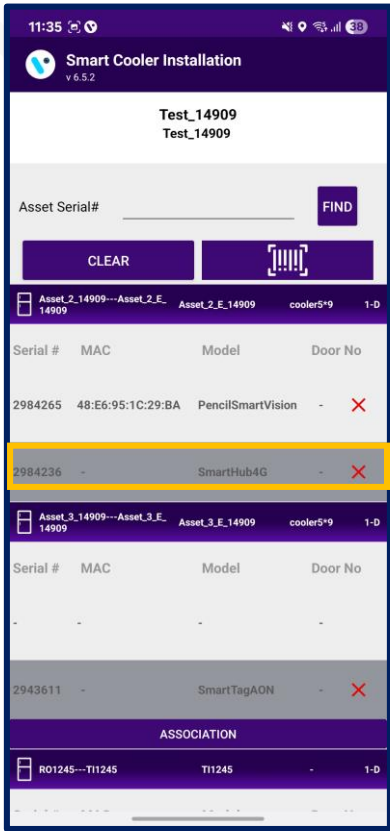
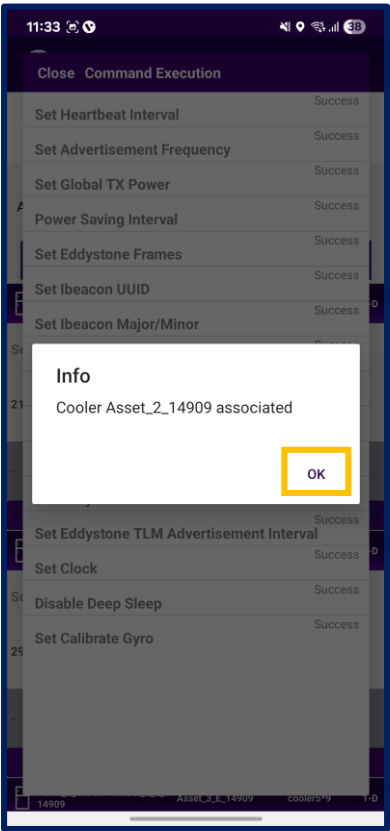
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3. Selecting the Device to do the association with - After identifying the device, select the device to start Installation, App will give a popup to confirm the association, Click on OK to confirm. When the process is completed, the User will be returned to the Outlet Screen, and now the User see that the Smart Hub is associated with the Cooler.



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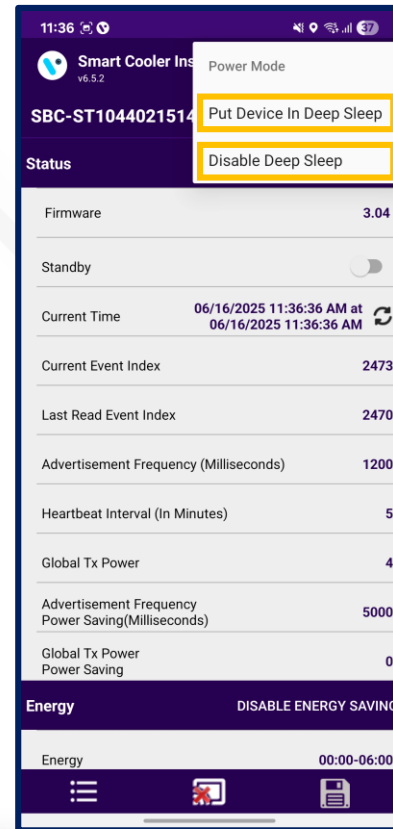
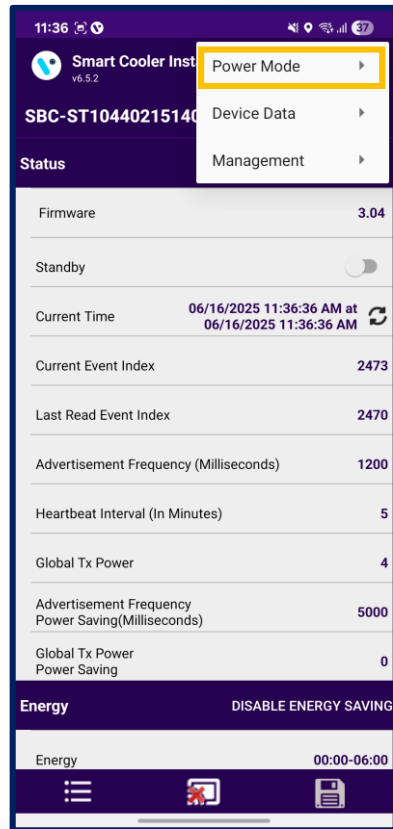
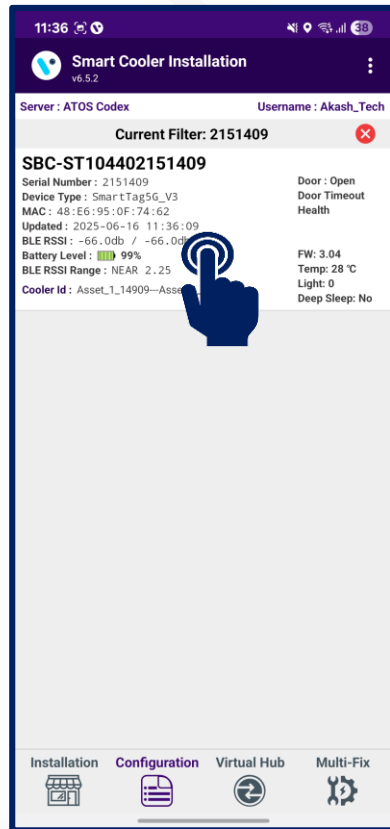
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CONFIGURATION - DEEP SLEEP MODE

In Deep-sleep mode, the device neither advertises nor logs any event data. Deep sleep mode is by default enabled when installed in the field the first time.



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A. To Disable Deep Sleep - To disable deep sleep mode, the user must keep the door magnet close to the device then the device starts advertising for 30 seconds. user must connect within 30 seconds to a smart device, Tap on Smart Device and After the connection, go to **Menu > "Power Mode" > "Disable Deep Sleep"**.

After disabling deep sleep mode, the device will continuously advertise forever and log event data.

If the user doesn't disable deep sleep mode, then after 30 seconds of disconnection, the device will stop advertisement again and the user can't see the device in scanning.

B. To Enable Deep sleep - After connection, go to **Menu > "Power Mode" > "Put Device in Deep Sleep"**.

After enabling deep sleep mode, the device will stop advertising and won't log any event.



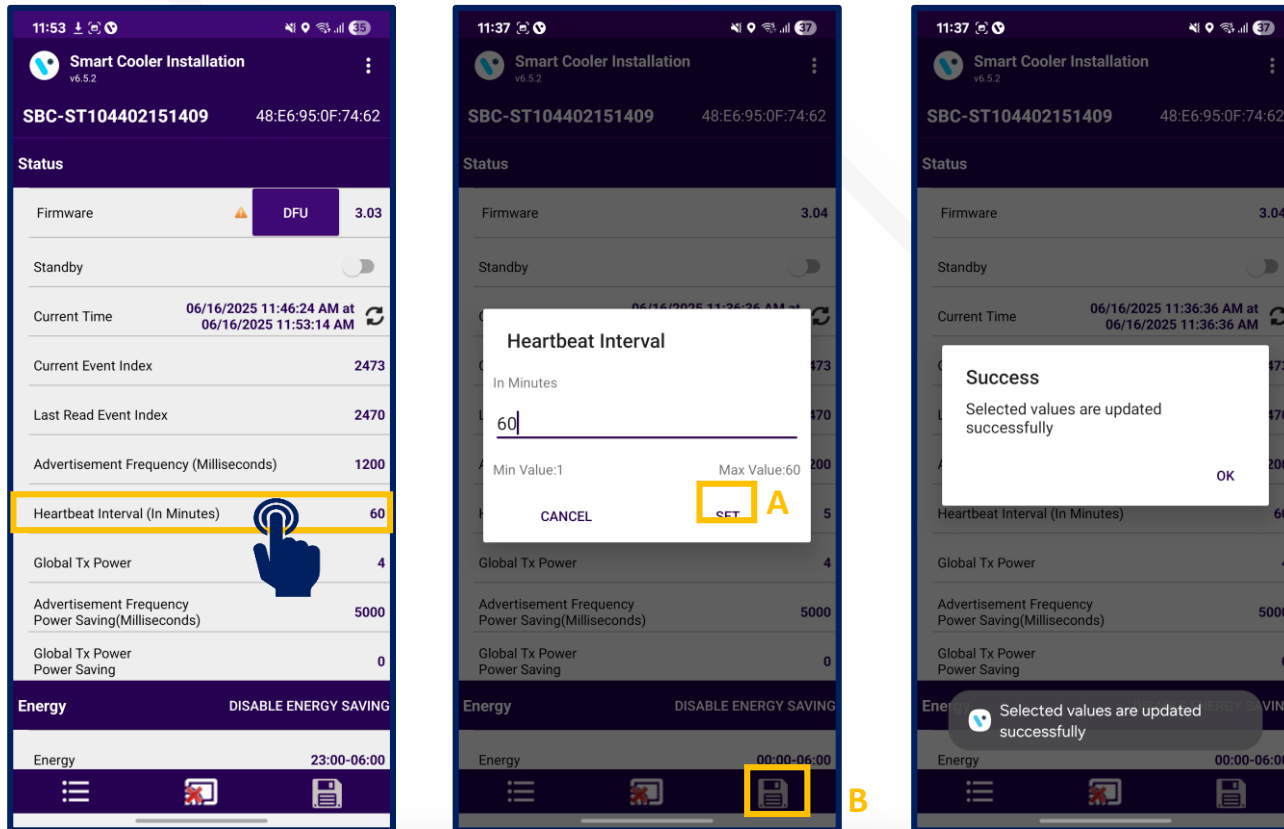
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CONFIGURATION - SET HEALTH INTERVAL



After connecting with the device, the user can configure the following parameters.

In the STATUS Parameters, Tap on "Heartbeat Interval (In Minutes)".

A. Enter the Interval Value and press the "Set" button.

B. After changing the values, press the SAVE button at the bottom to save it on the device.



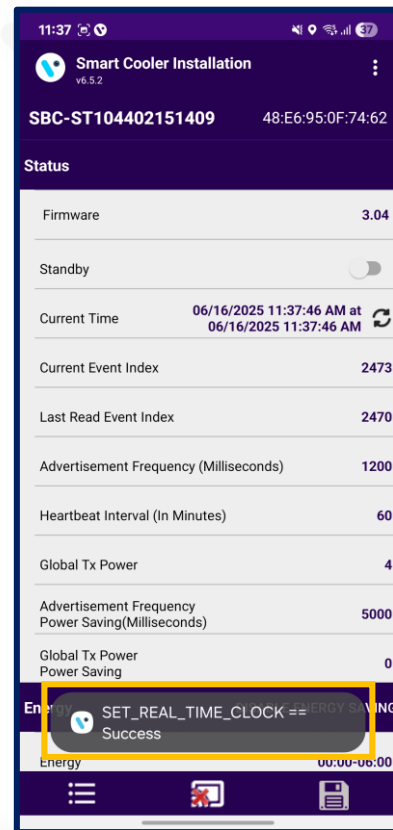
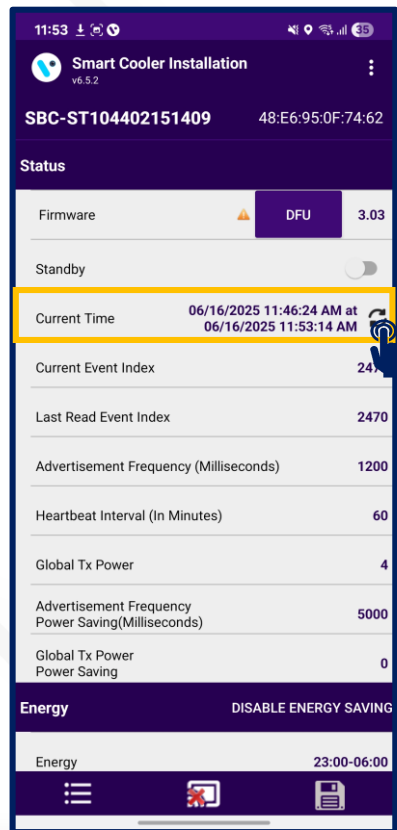
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CONFIGURATION - SET CURRENT DATE TIME



After connecting with smart devices, Tap on the Refresh button in STATUS > "Current Time" row to set the current time in the device.

After a Successful set, the clock time Popup message will show.



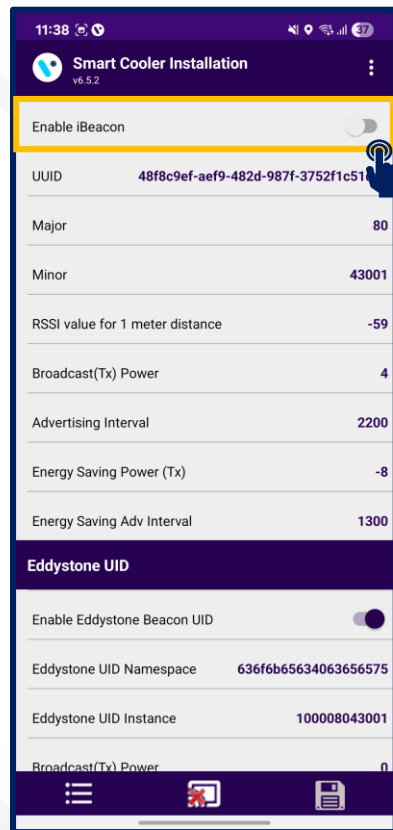
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CONFIGURATION - SET IBEACON PARAMETERS



Enable/Disable iBeacon Frame

Toggle button to Enable iBeacon row to enable or disable the iBeacon frame in the iBeacon Row.

After changing the values, press the SAVE button at the bottom to save it on the device.



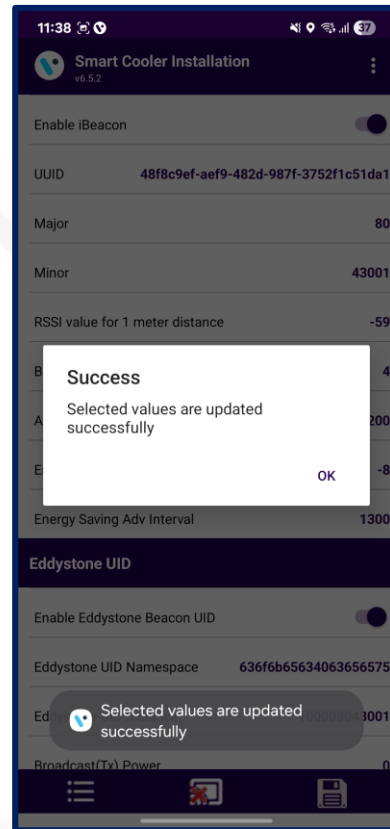
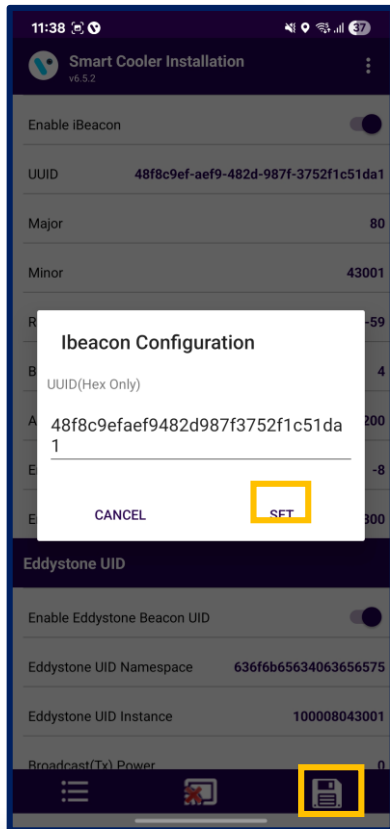
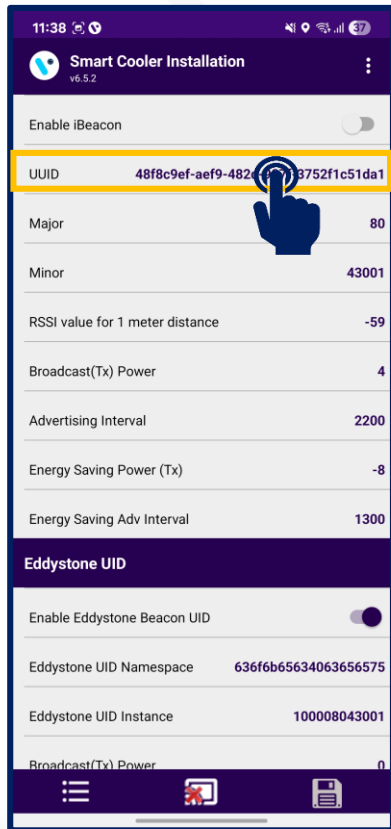
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CONFIGURATION - SET IBEACON PARAMETERS (CONT'D)



Set UUID

After connection, as shown in the figure, below the iBeacon bar touch on the UUID row.

Enter a 16-byte UUID and press "Set".

After changing the values, press the SAVE button at the bottom to save it on the device.



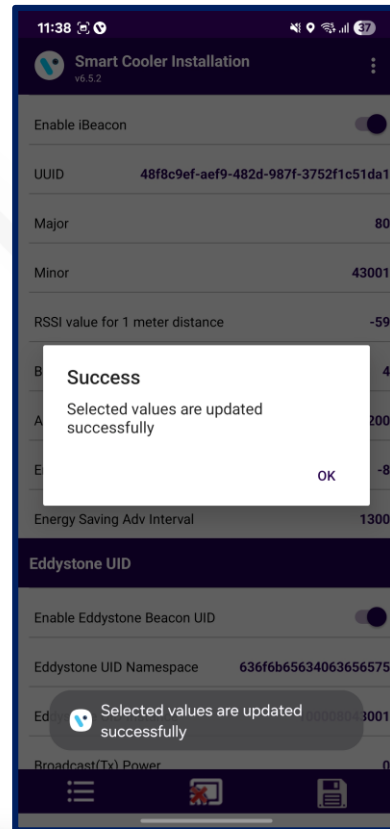
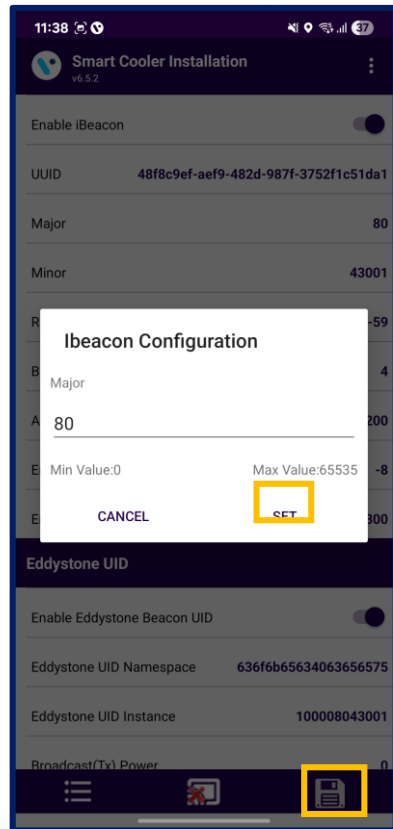
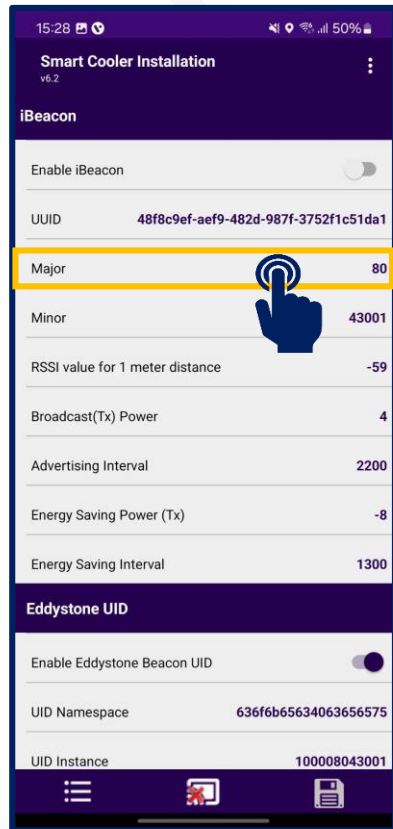
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CONFIGURATION - SET IBEACON PARAMETERS (CONT'D)



Set Major

After connection, as shown in the figure, below the iBeacon bar, there is a row for Major. Click on any row and write the value as shown below.

Enter the value and press "Set".

After changing the values, press the SAVE button at the bottom to save it on the device.



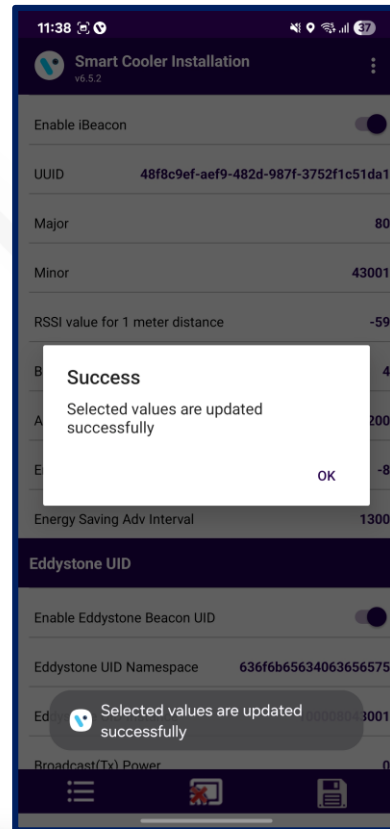
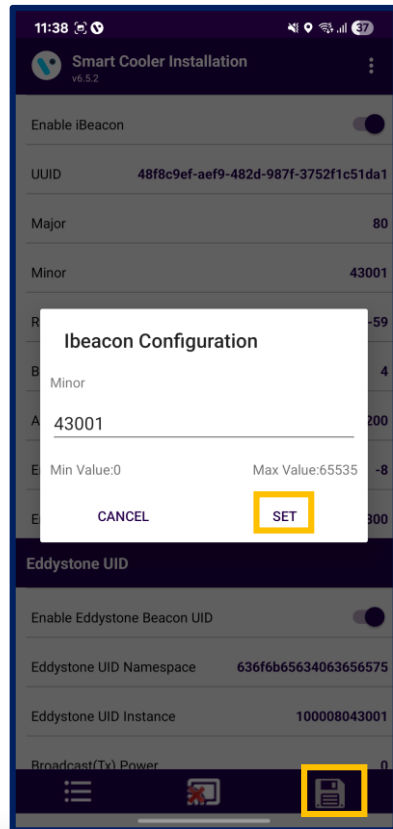
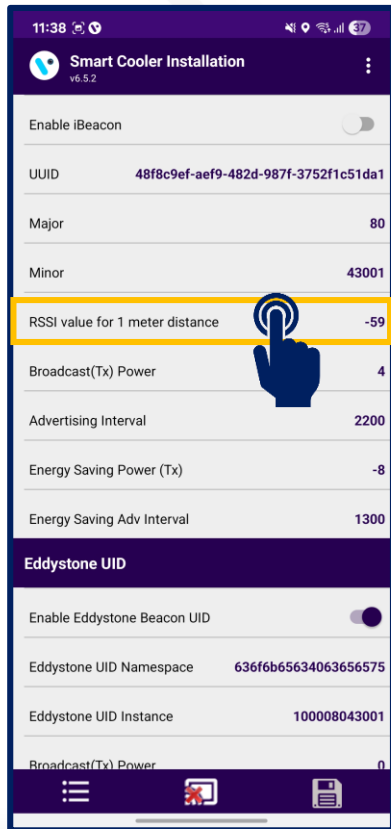
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CONFIGURATION - SET IBEACON PARAMETERS (CONT'D)



Set Minor

After connection, as shown in the figure, below the iBeacon bar, there is a row for Minor. Click on any row and write the value as shown below.

Enter the value and press "Set".

After changing the values, press the SAVE button at the bottom to save it on the device.



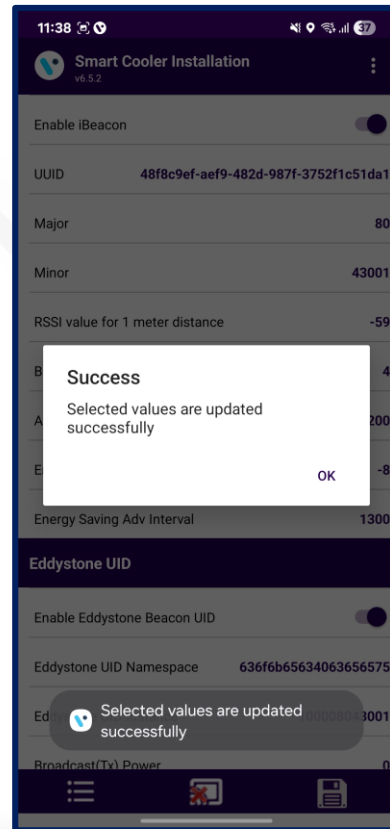
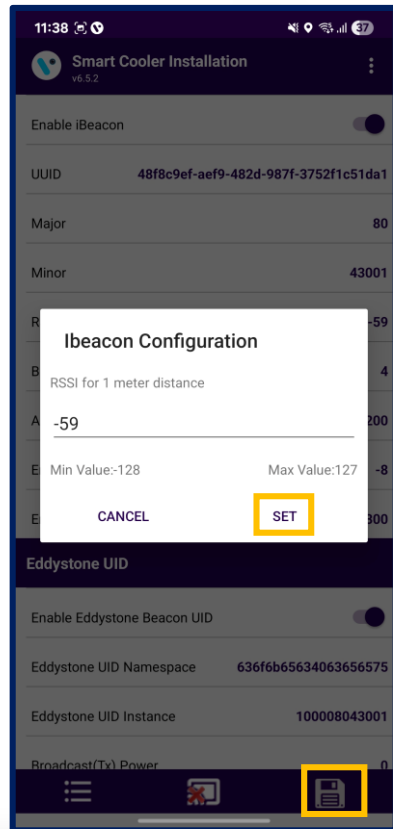
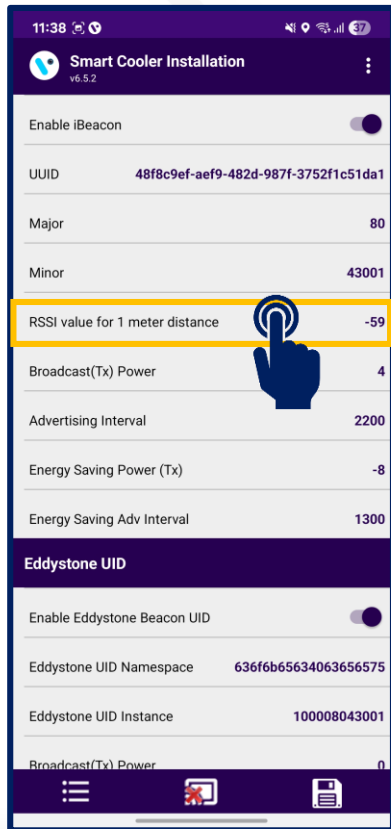
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CONFIGURATION - SET IBEACON PARAMETERS (CONT'D)



Set RSSI

After connection, as shown in the figure, below the iBeacon bar, there is a row for RSSI. Click on any row and write the value as shown below.

Enter the value and press "Set".

After changing the values, press the SAVE button at the bottom to save it on the device.



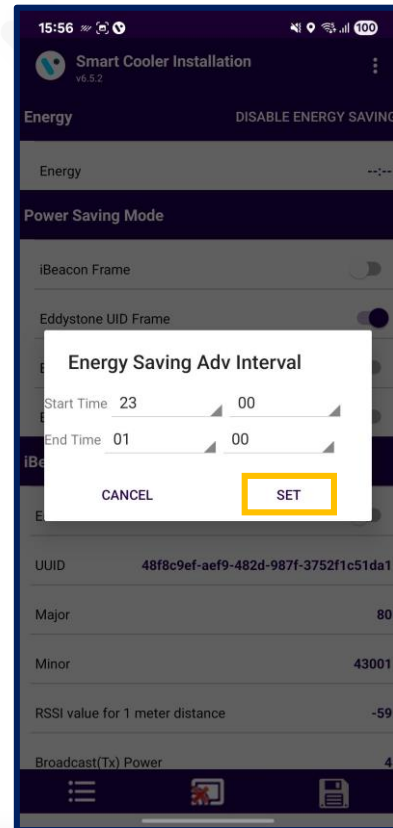
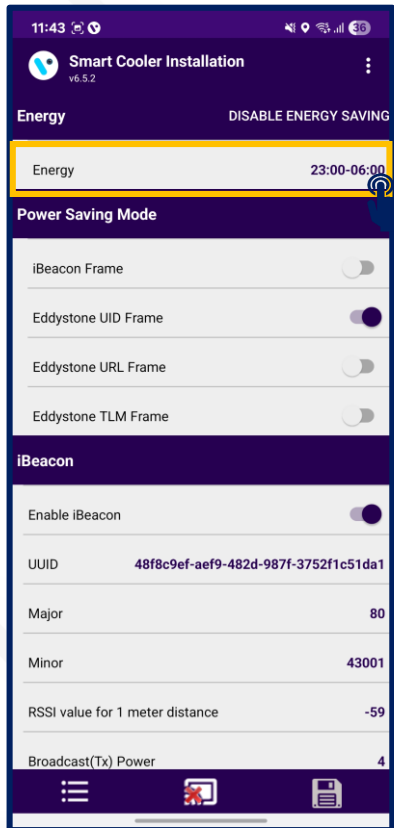
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CONFIGURATION - ENERGY SAVING MODE



Set Energy saving mode

Users can set the time duration for saving the power by changing the advertisement interval and it transmits power for that user need to touch on the row Energy Saving Start/End time.

After changing the values, press the SAVE button at the bottom to save it on the device.



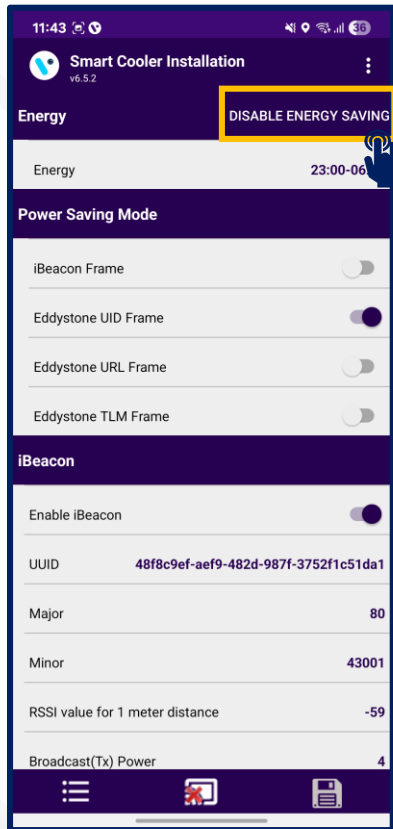
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CONFIGURATION - ENERGY SAVING MODE (CONT'D)



Disable Energy Saving Mode

Users can disable the energy-saving mode by tapping on the “Disable Energy Saving” as shown in the image.

After changing the values, press the SAVE button at the bottom to save it on the device.



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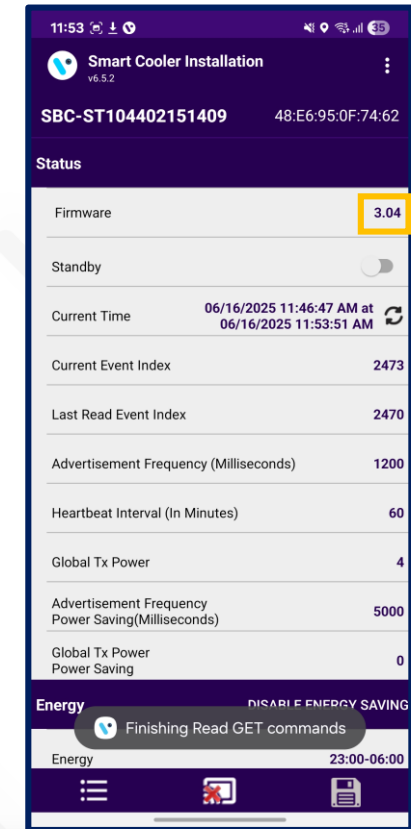
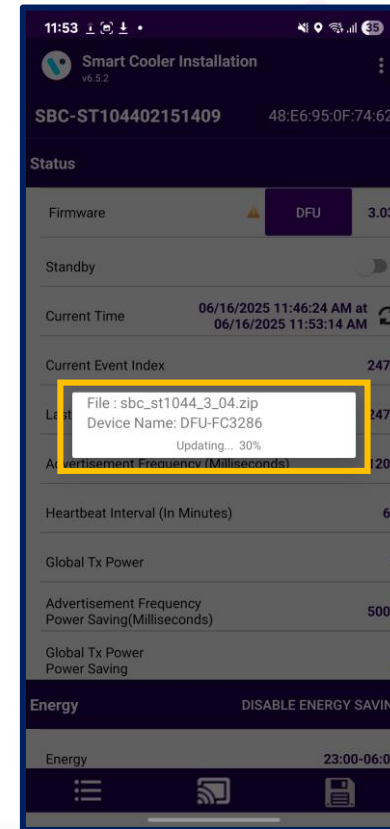
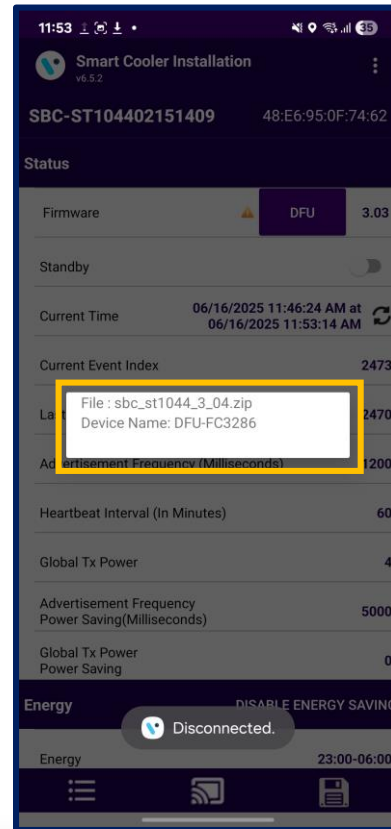
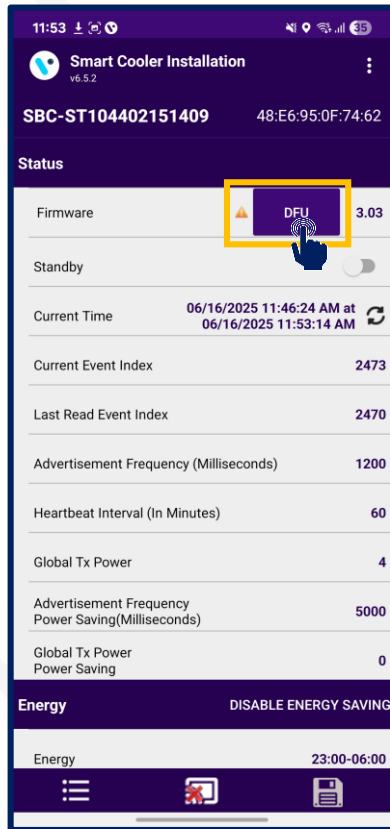
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CONFIGURATION – DFU (DIRECT FIRMWARE UPDATE)

DFU - Direct Firmware Update- The DFU of the Smart device can be performed by clicking on the Update DFU Button as shown in the image. If the Device has already the latest Firmware, then there is no DFU Flag show.

After completing the DFU update, the user will see the DFU Upgrade Process. Once the DFU process is successfully finished, the user can view the upgraded firmware version of the smart device.



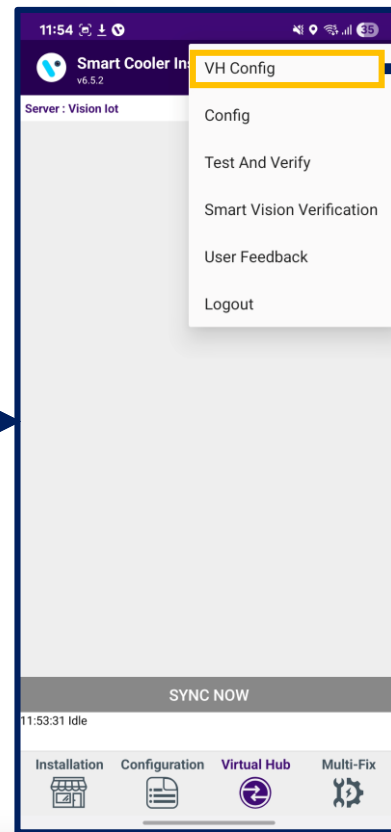
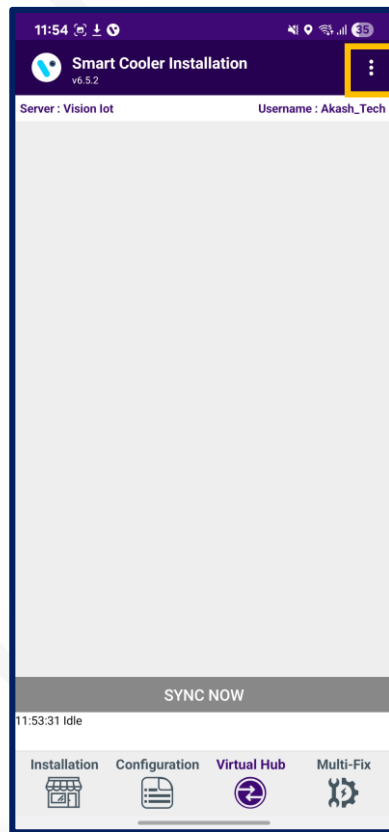
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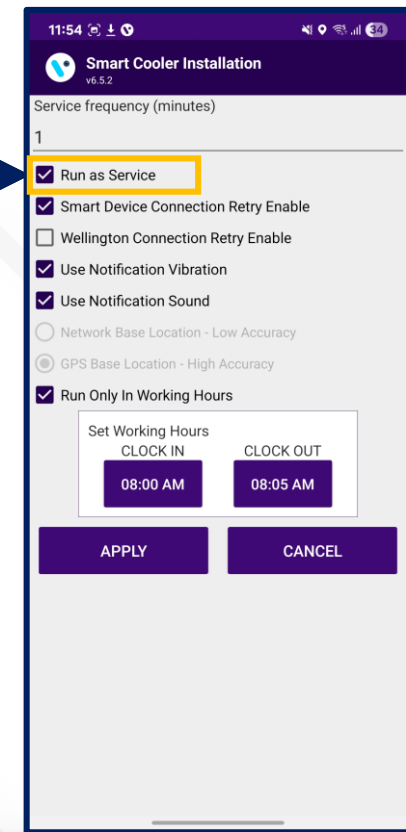
VH PROCESS (VIRTUAL HUB SCREEN PROCESS)



Select the Hamburger Menu(3 Dots/Options Menu) and then Select VH to access the VH Settings.

Run as Service must be checked to activate the VH.

After Checking any one of the above, select "APPLY" to commit the settings.



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VIRTUAL HUB – SETTINGS/OPTION FOR VH SERVICES

The screenshot shows the 'Smart Cooler Installation' app settings screen. The title bar is purple with the app icon and name. The settings are as follows:

- Service frequency (minutes): 1 (Callout 1)
- ☒ Run as Service (Callout 2)
- ☒ Smart Device Connection Retry Enable (Callout 3)
- ☐ Wellington Connection Retry Enable
- ☒ Use Notification Vibration
- ☒ Use Notification Sound
- ☐ Network Base Location - Low Accuracy
- ☒ GPS Base Location - High Accuracy (Callout 4)
- ☒ Run Only In Working Hours (Callout 5)

Below these options is a 'Set Working Hours' section with 'CLOCK IN' and 'CLOCK OUT' fields. 'CLOCK IN' is set to 08:00 AM and 'CLOCK OUT' is set to 08:05 AM. At the bottom are 'APPLY' and 'CANCEL' buttons.

1. Service Frequency: This is the delay between consecutive VH sessions.
2. Run as Service: Check this option if the VH must run.
3. Connection Retry Option: If Smart Device or Wellington does not connect in one try then it's used.
4. Use GPS Service: Check this option if the GPS service must be used to capture the location of the user.
5. Working Hours: VH will work during defined working hours.



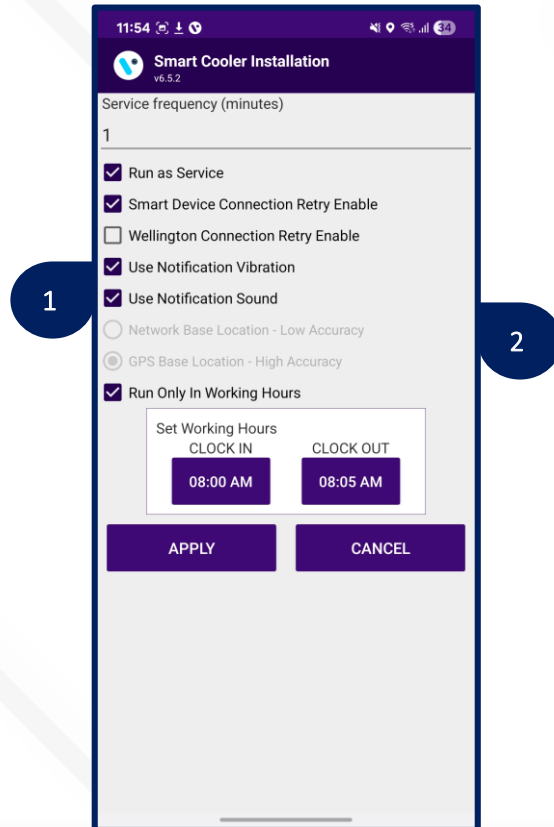
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VIRTUAL HUB - NOTIFICATION SETTINGS



1. **Enable Vibration** – If this option is enabled the user gets notified by vibration once the data download is complete.
2. **Enable Notification Sound**– If this option is enabled the user gets notified by a sound once the data download is complete.

Notification enables the person collecting the data to identify the data download completion without checking the device manually.



VH SCREEN – DATA DOWNLOAD ACCESS



Application data downloading from Smart Device's and Upload.

Select here to access the virtual hub screen, all the VH activities can be monitored here on this screen.



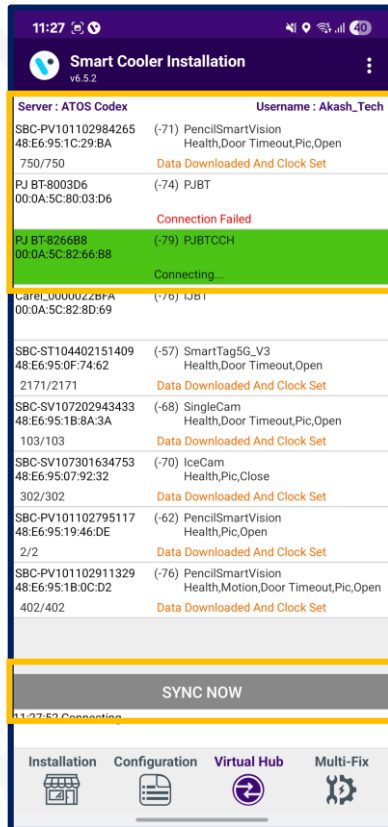
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VH SCREEN - COMPONENTS



This screen displays the devices being connected and the VH data download and upload activities can be monitored here.

When the phone application reads all the data from the device it will display as "Data Downloaded And Clock set". After completing the read data from all the devices, the application will upload data to the cloud. After completion of data upload to the cloud application will give the status "Waiting for next execution".

Sync now can be selected to force a manual sync using the virtual hub



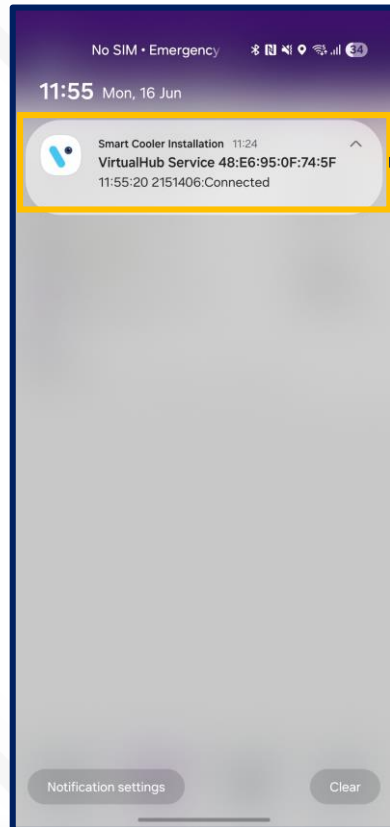
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VH SCREEN - NOTIFICATION



Pull down the notification to check the Virtual Hub service status when the application runs in the background.



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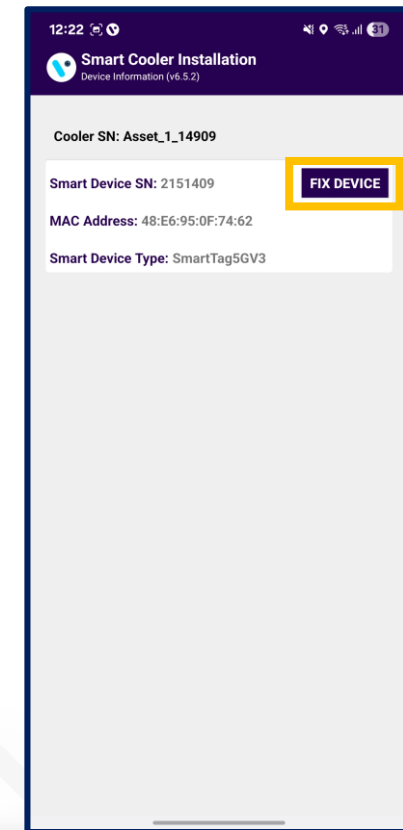
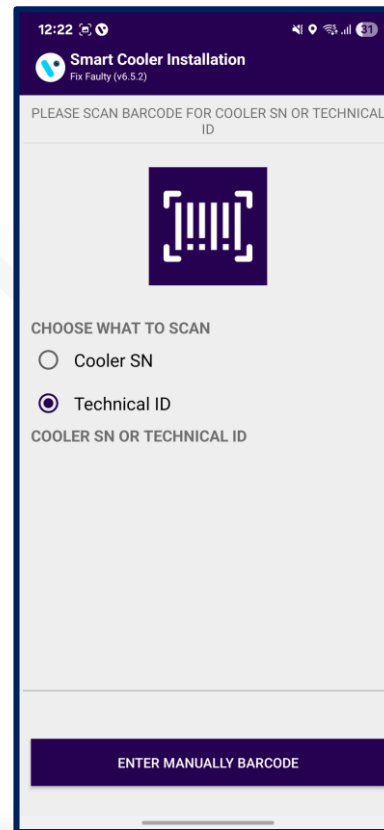
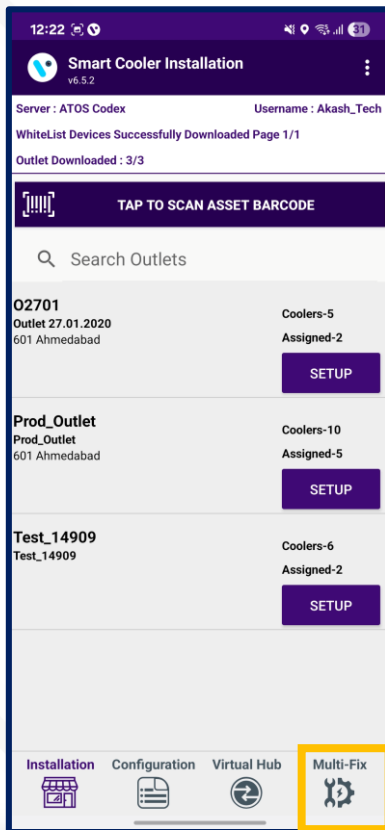
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FIX FAULTY DEVICES

Use CHECK COOLER STATUS to check specific smart device current sensor data, FW version info, and DFU functionality if the latest Firmware is available for the Scanned Cooler.

Users can identify assets by SCAN BARCODE by Cooler SN or Technical ID. The user can also search by ENTER MANUALLY BARCODE of Cooler SN or Technical ID.



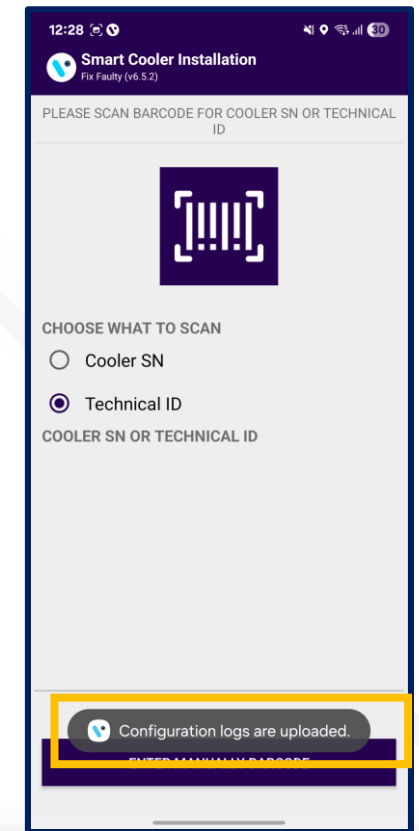
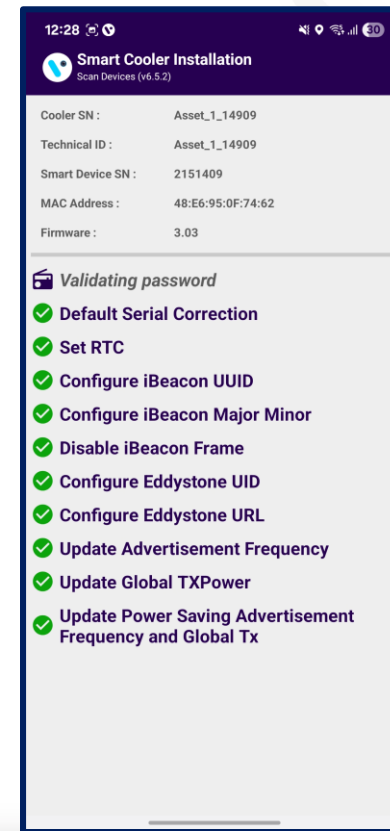
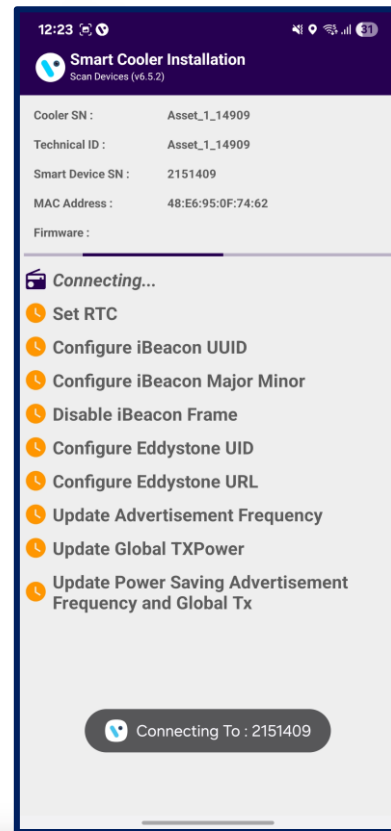
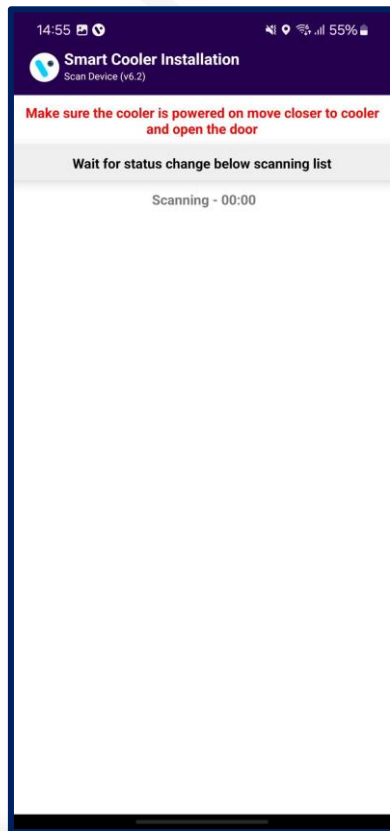
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The Scanned Device will be corrected with the actual smart device serial number and upgraded to the latest firmware update if the update is available and set the device configuration.



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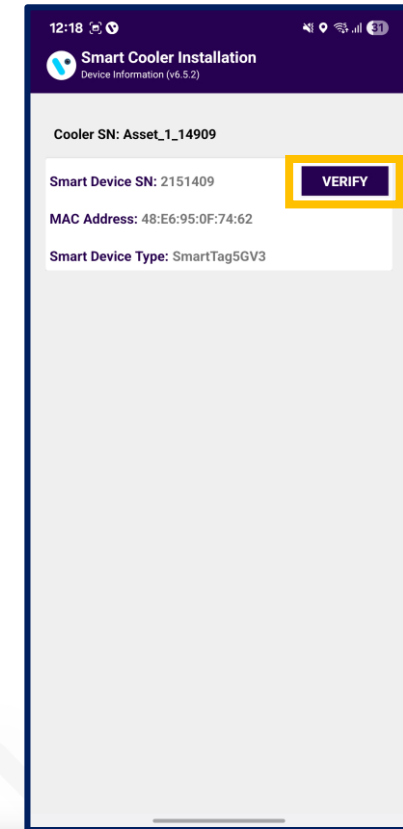
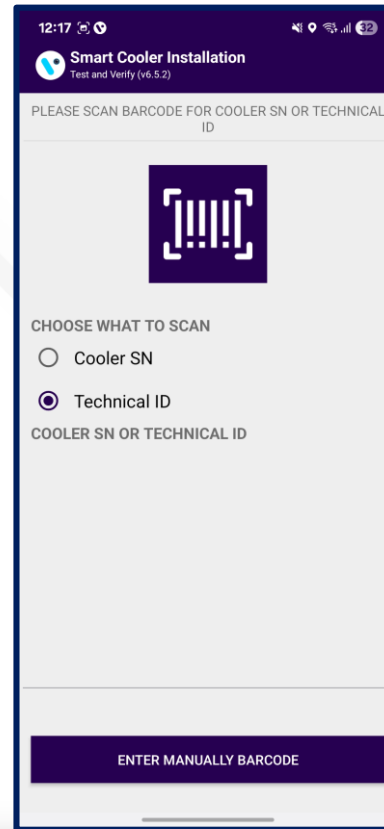
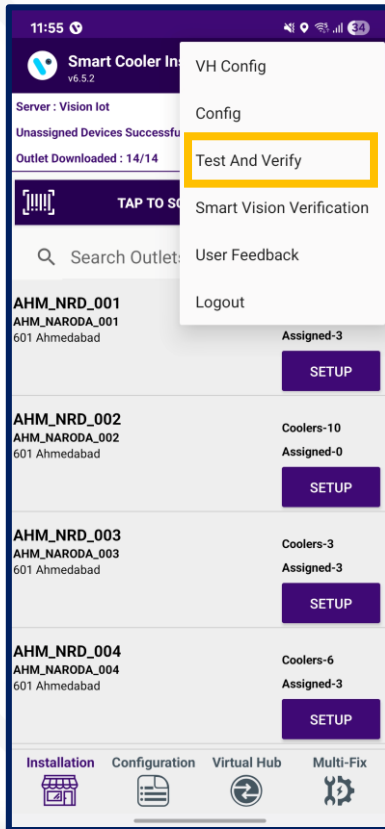
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TEST AND VERIFY

This feature involves verifying the fixed devices after faulty fix features to verify the ibeacon and Eddystone Advertisement frame values.

Users can identify assets by SCAN BARCODE by Cooler SN or Technical ID. The user can also search by ENTER MANUALLY BARCODE of Cooler SN or Technical ID.



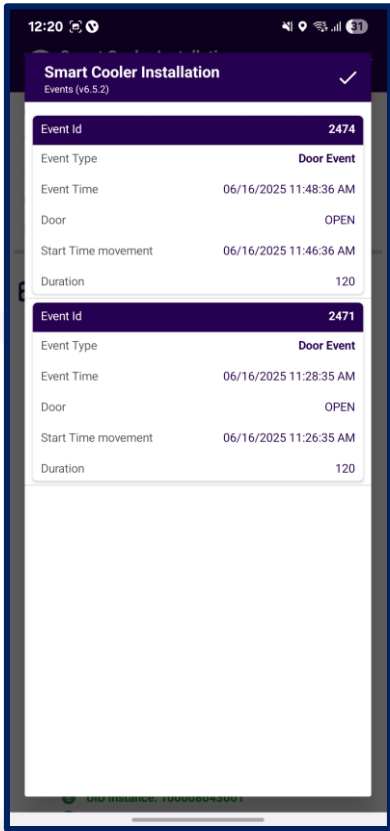
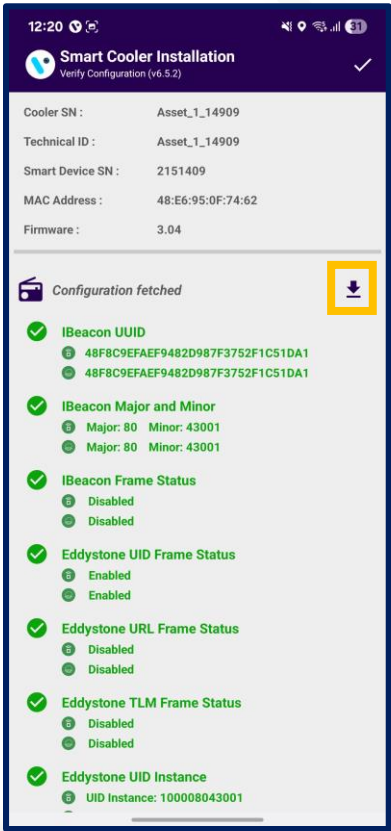
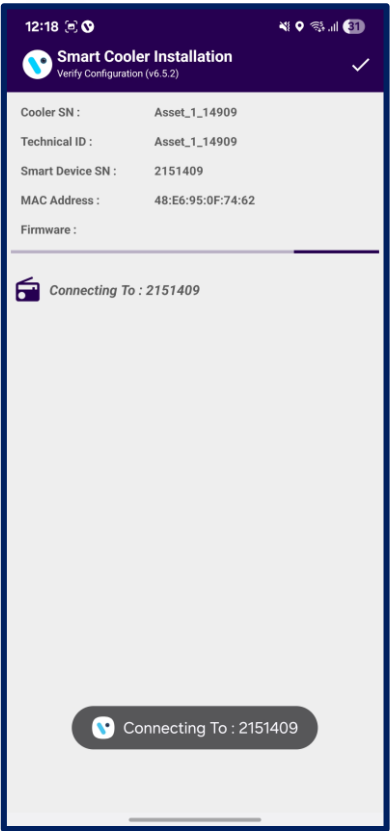
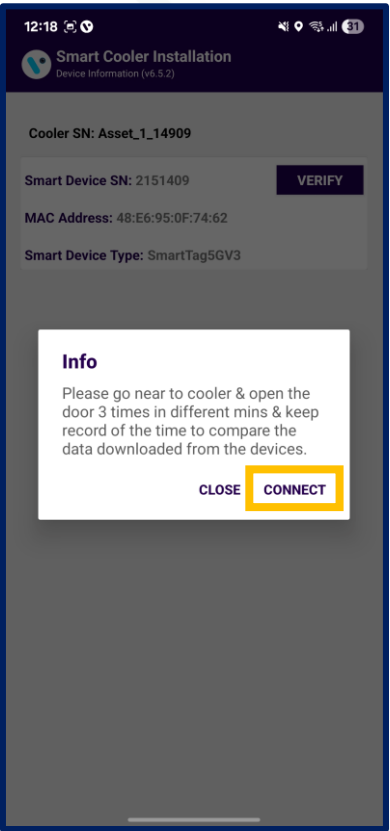
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After giving the Door Cycle, the device will show the Advertisement frame values in comparison with Smart device and Cloud values. Pressing on the Download Event button, the user can verify the Door Event Verification by logging Door Events.



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Thank You!