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# SMART TAG AON

INSTALLATION GUIDE

MAR 2023

# INTRODUCTION



- Smart intellectual device to monitor cooler health and upload data on Cloud.
- **Smart Tag AON** - Technical Specifications  
Smart Tag AON is a BLE-enabled, Battery powered sensor device that can capture, and monitor light, temperature, and door open/close events.



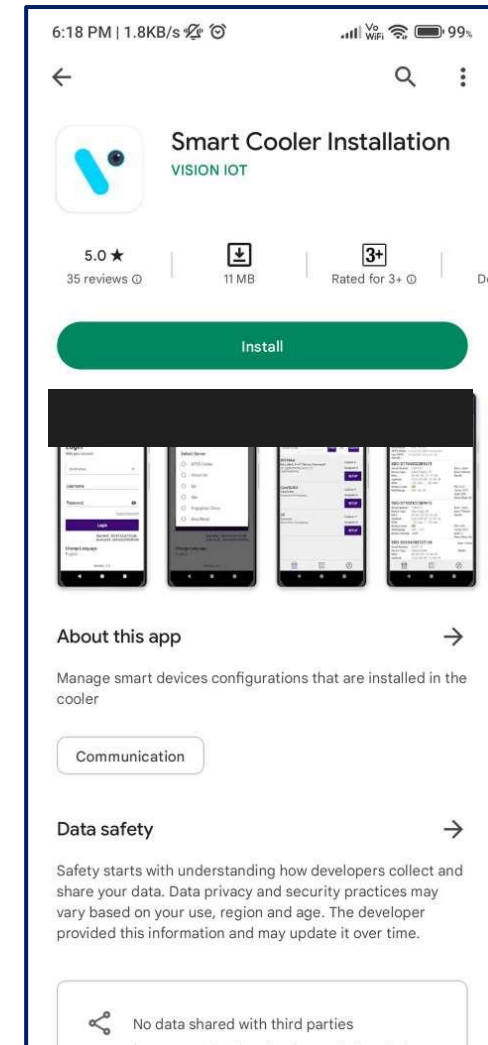
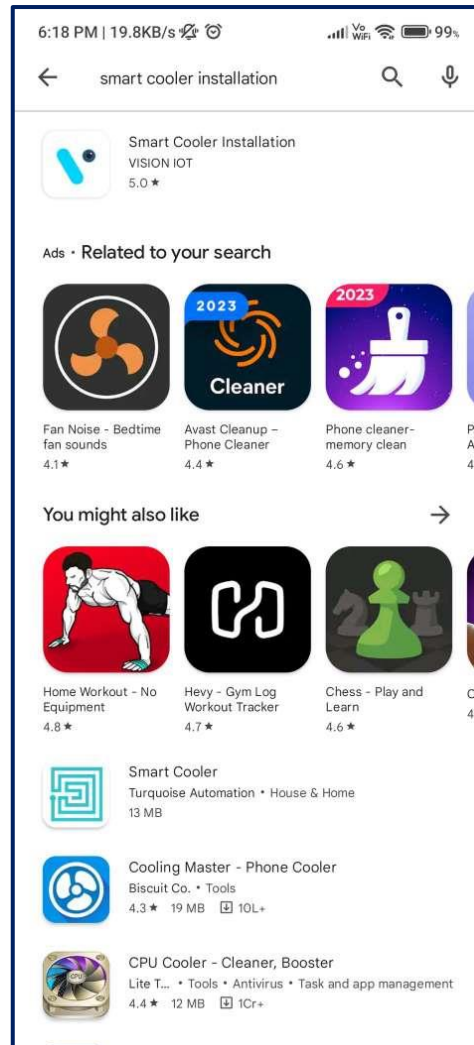
- **NOTE: All Images for Reference only.**

# APPLICATION INSTALLATION

Search the “**SMART COOLER INSTALLATION**” and Install the “**SMART COOLER INSTALLATION**” APK from Google’s Play store.

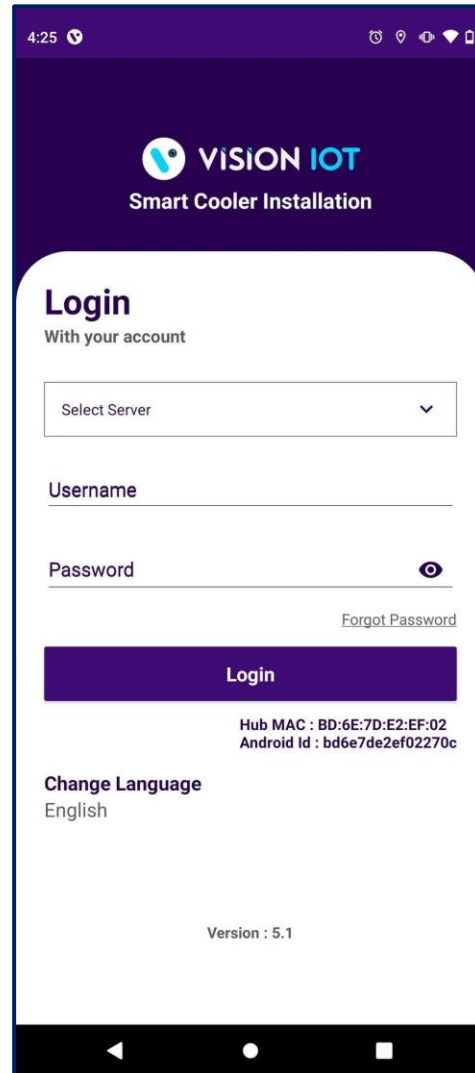
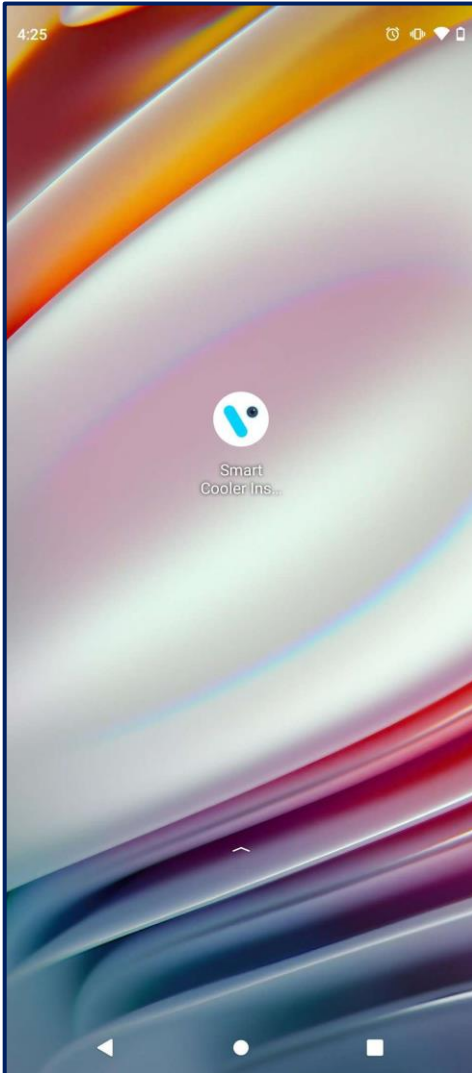
**URL:** <https://play.google.com/store/search?q=smart+cooler+installation&c=apps>

The installation application is compatible only with Smartphones having Android V8.0 and above.



# LOGIN

The installation application is compatible only with Smartphones having Android V8.0 and above.



1. Open VISION IOT Smart Cooler Application.
2. Login using the credentials provided by your administrator – after successful login, user will be directed to Outlet list view screen.

# SMART TAG AON INSTALLATION

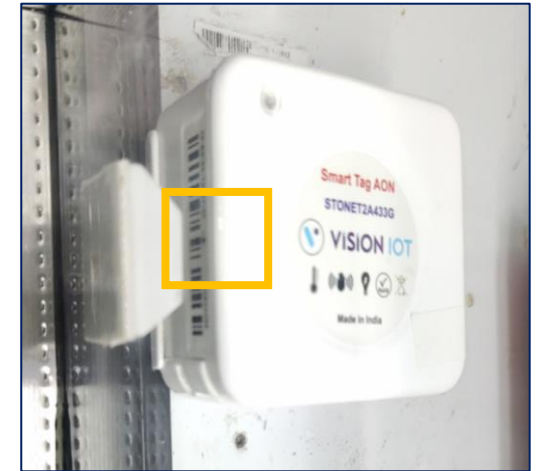


The installation position of SmartTagAON and Magnet are depending on the cooler model.

We can Install the Smart Tag AON Using two Options:

1. Using 3M tap
2. Flat Head Screw to back plat

The next section will explain the installation.



## Important Conditions for Installation:

- The smart tag AON must always be installed in the Cooler cabinet (The preferable place is the Topside- see the image in slide #10)
- Make sure the magnet symbol is the cooler's front face. (Slide #13)
- Clear the cooler surface using tissue paper if dust or water particles are available.
- There are two options to mount the Smart Tag AON, i) using 3M tape ii) using screwing the backplate (Slide #10 & Slide #11)
- For option I, Peel the cover from the 3M adhesive tape, paste the Smart Tag Aon on the cooler wall, and allow it to stay for 30 seconds without any disturbances. (Slide #10)
- If there are any changes to be made in the installation position there is only a 30 seconds margin to move it, after 30 seconds the Device will stick permanently. (Slide #10)
- **Device is in deep sleep mode during shipment and installation, so its all functionality is deactivated. Please do not activate the device before physical installation in the cooler.**
- **Device will auto-activate on its installation if it was done correctly. The main thing to check is that Magnet should be properly aligned to the Magnet sensor symbol on the device.**

# INSTALLATION – OPTION 1 (USE 3M TAP)

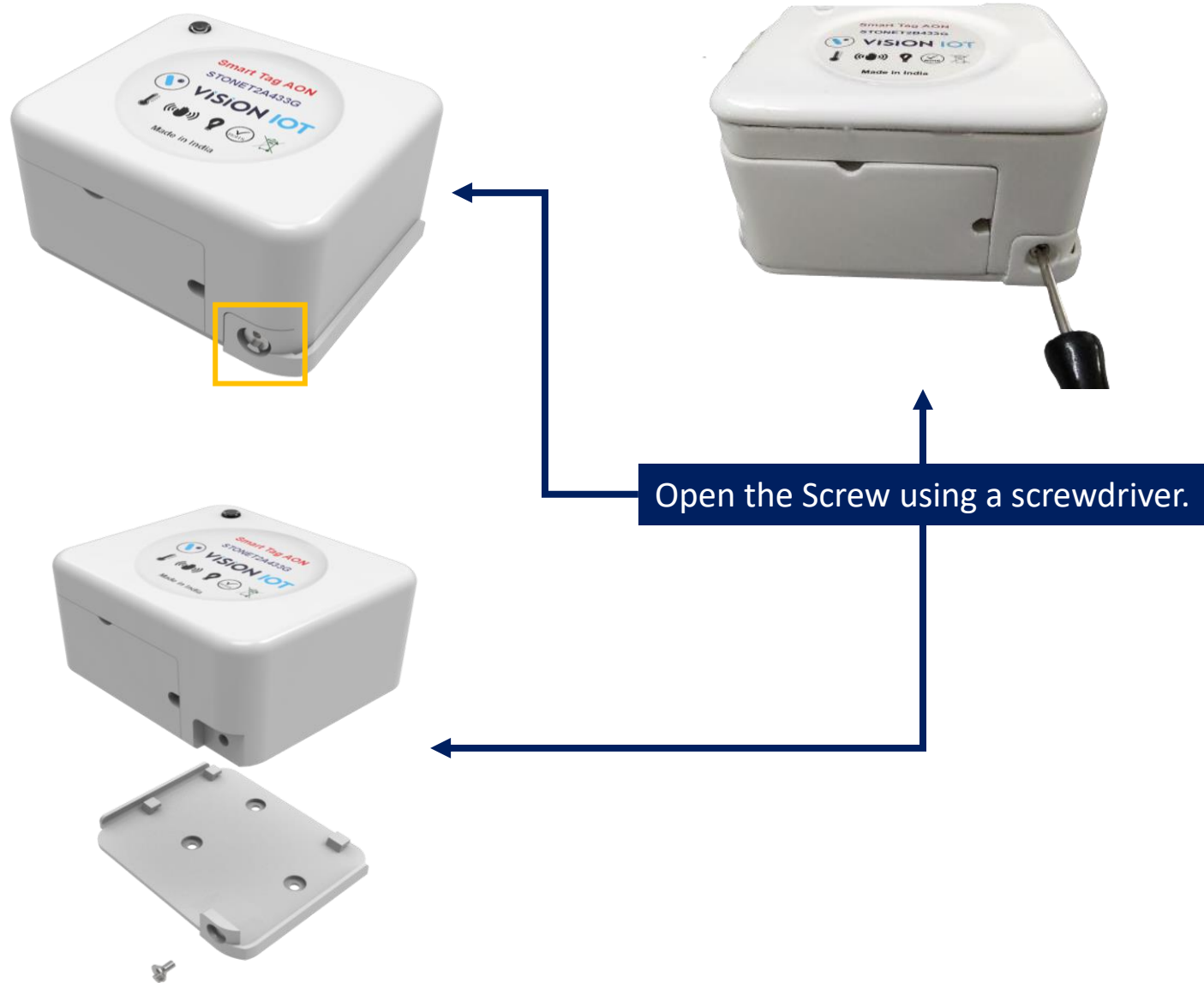


- Recommended installation location of Smart tag AON to be installed at the top of the cooler cabinet at the door handle side.
- Peel the cover from 3M Double side tape from the Smart device and Install It at the top of the cooler cabinet at the door handle side.
- **For Door sensor :**  
The magnet must be placed on the cooler's glass door such that when the door is closed, the magnet lies <2 cm from the smart tag AON door sensor position.

The magnet should be installed at the edge of the door and in front of the magnet symbol of the smart device, the sensor symbol See image slide.



# INSTALLATION – OPTION 2 (USE SCREW)



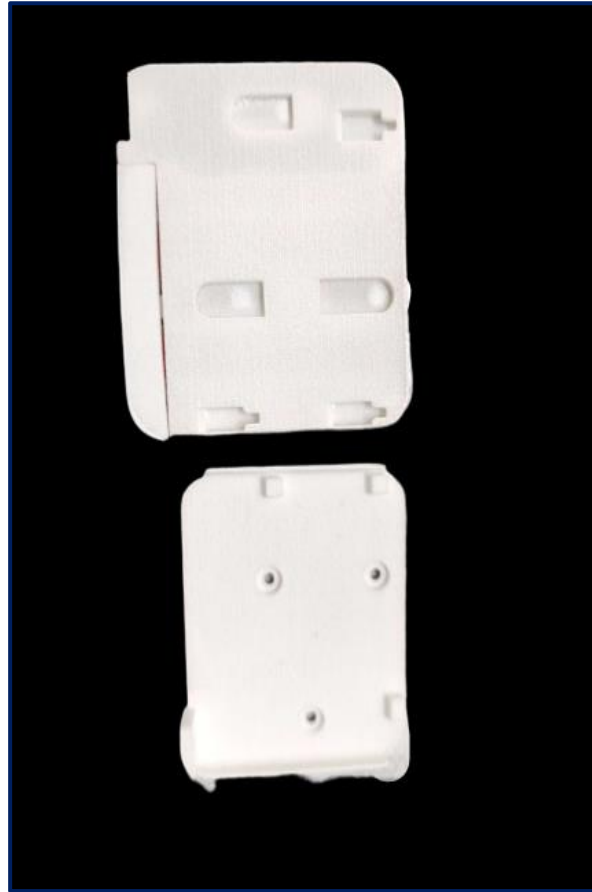
- At the Bottom Side of the SmartTagAON device, there is a screw to remove the Smart device from the backplate.
- Open the bottom-mounted use screw using a screwdriver.



**SCREWDRIVER**  
Vision IOT Provides this with Every Order Shipment.



Measure the Device Position on the Cooler and mark to install the backplate into the Cooler.



Slide up the SmartTagAON after removing the screw and, take out the device from the backplate.



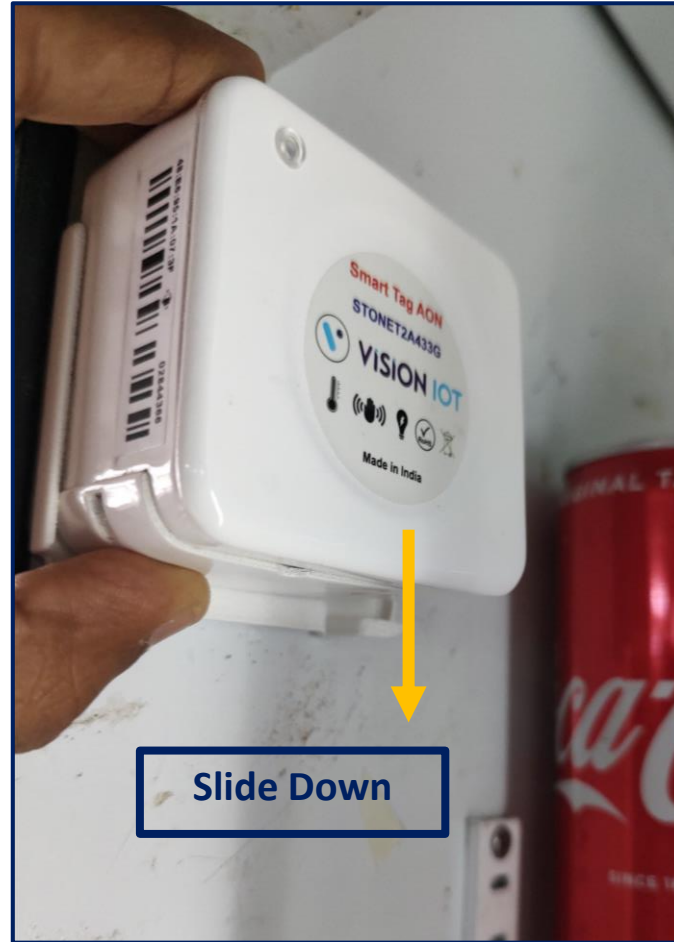
Measure the Position to Fix the Smart device and Stick the Back Plate Using a Flat Head Screw into the Cooler.



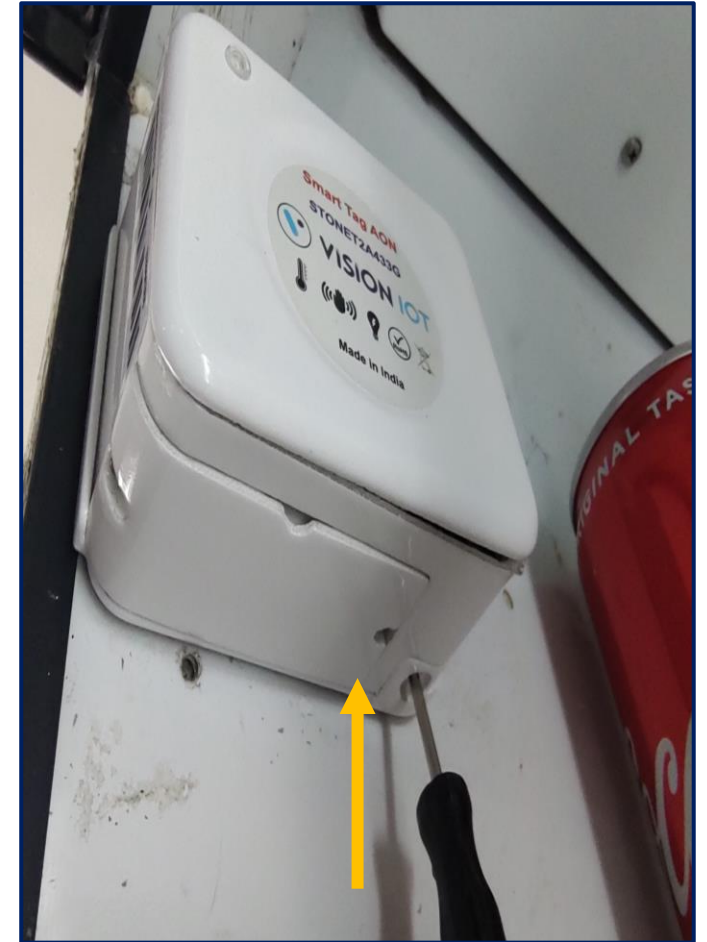


- Slide down the SmartTagAON Device in the backplate and tighten the backplate screw using the screwdriver.





Slide down the SmartTagAON Device on the backplate.



Tighten the backplate screw using the screwdriver.

# MAGNET INSTALLATION

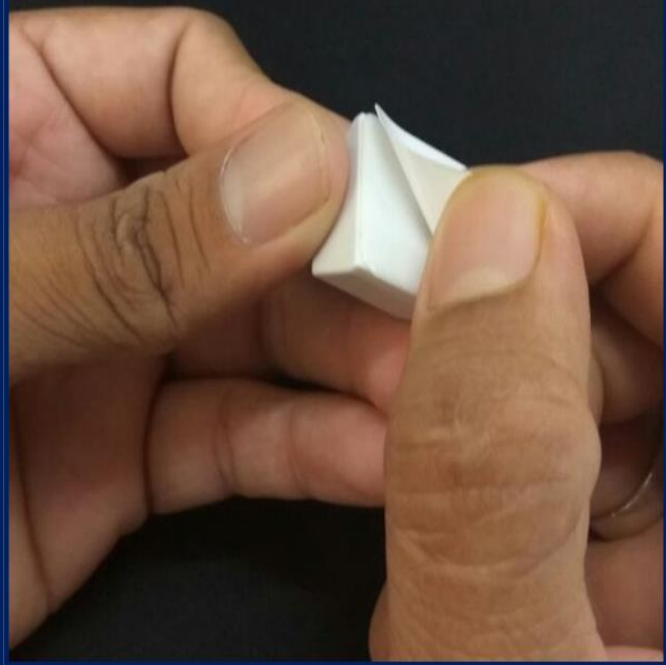
The magnet installation position might depend on the cooler model.



## Important Conditions for Installation:

- The magnet is always installed opposite to the smart tag AON (the Magnet should be installed edge of the device and in front of the magnet sensor symbol)
- The magnet must be placed on the cooler's glass door such that when the door is closed, the magnet lies <2 cm from the smart tag AON door sensor position.
- Wipe the moisture from the installation spot using a dry tissue.
- Peel the cover from the 3M tape and paste the magnet into the required position where it is properly aligned with the magnet sensor symbol on the device.
- If there are any changes to be made in the position of the magnet there is only a 30 seconds margin to move it, after 30 seconds the Magnet will stick permanently.

## Magnet for Door Sensor



The magnet should be installed edge of the device and in front of the magnet sensor symbol.





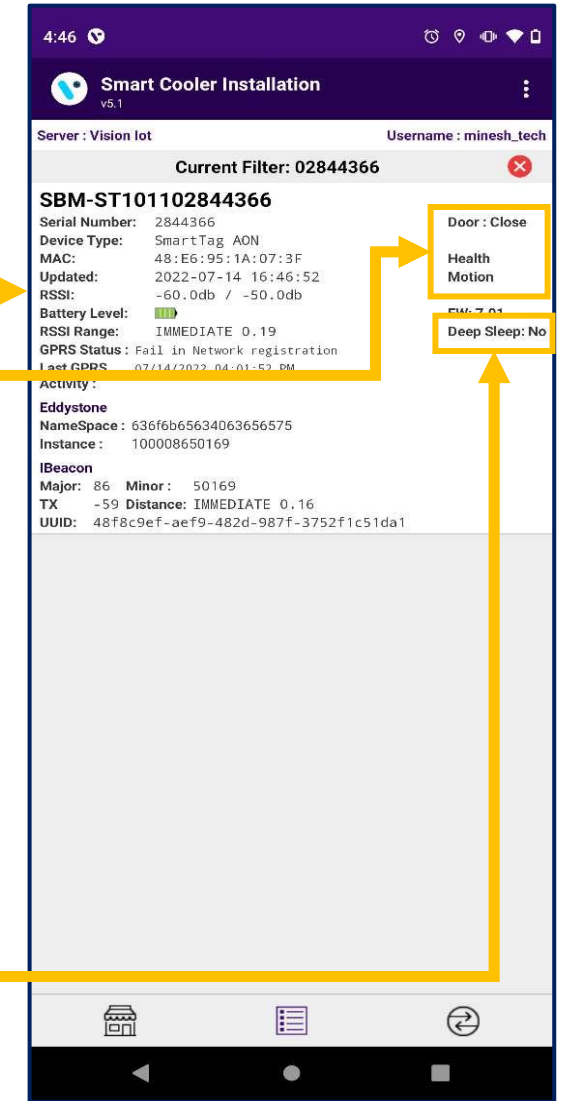
# VERIFY DOOR SENSOR

The installation application is compatible only with Smartphones having Android V8.0 and above.

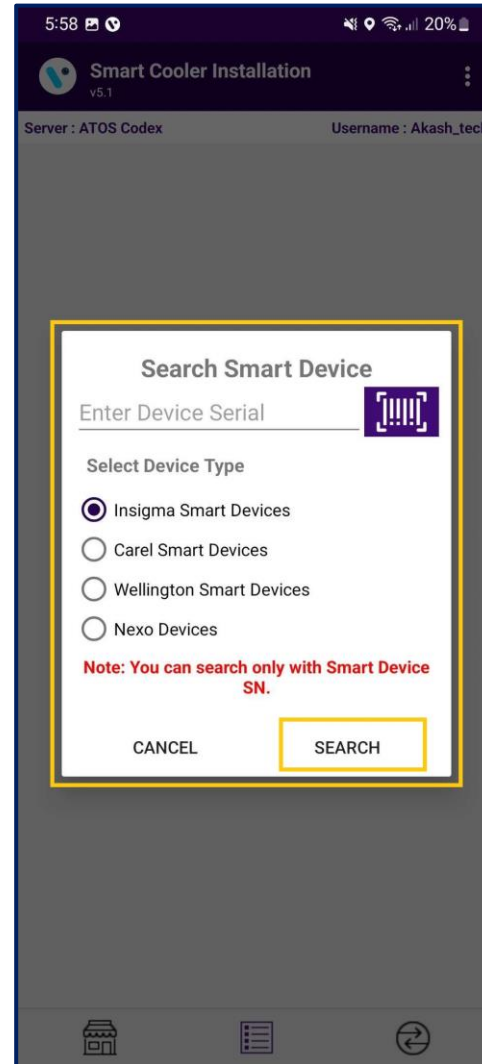
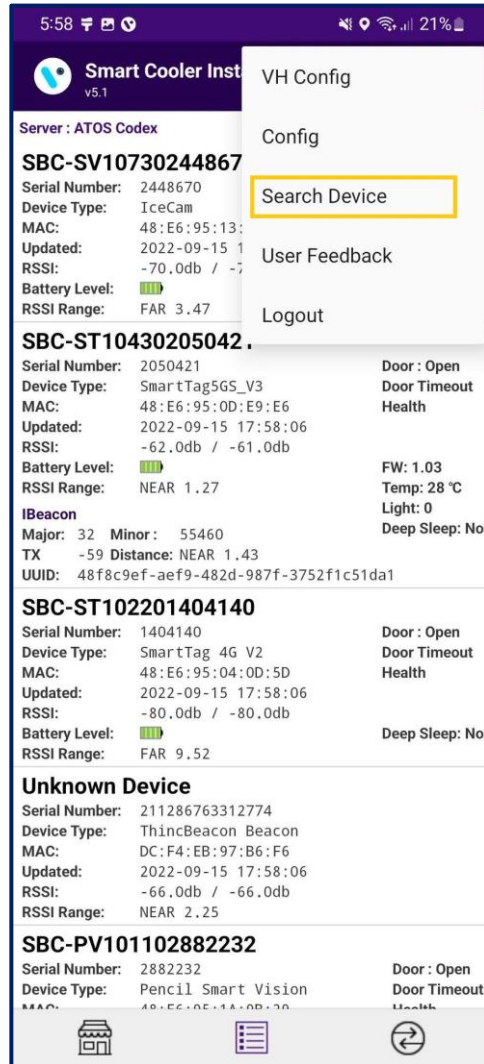
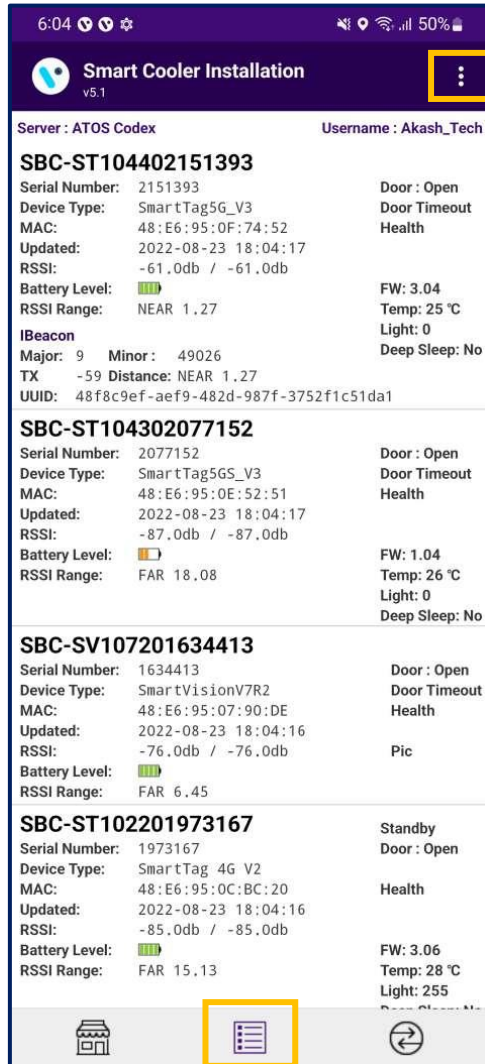


1. After the physical installing the Smart Tag AON and magnet, the door open close must be validated to make sure that the magnet is placed properly. Follow the steps mentioned below to verify.
2. Tap on the configuration Tab, Scan for any devices in proximity.
3. The application lists all the Smart Tags AON available in the proximity.
4. Check the Door flag for the device matching our Smart Tag AON serial number, Door Status: Close if the door is closed, and Door Status: Open, if the door is Open.

Please note the device is only activated when Smart Tag AON detects the Magnets for 15sec, Once device will activate the mobile app. will show Deep Sleep: No



If the user found multiple devices in the scanning screen, the user can search the device using the “SEARCH DEVICE” function.



**APPLICATION CREDENTIAL**

✓ Project Manage will help to get the Application Credential.

**TO SEARCH THE SMART DEVICE**

✓ Click on the Configuration Icon to move to the Configuration/Scanning Screen.

✓ Now Tap on the Hamburger menu (Menu Option) and select the “Search Device” Option and enter the device serial number or Scan the barcode to find the Installed Smart device.

# AUTO WAKE UP SMART DEVICE

Keep the door closed for 15 seconds for the Smart device to Wakeup (Advertise) the smart device and within 15 min user has to be complete the association process.



**GREEN LED**

The Device Advertise for 15 min

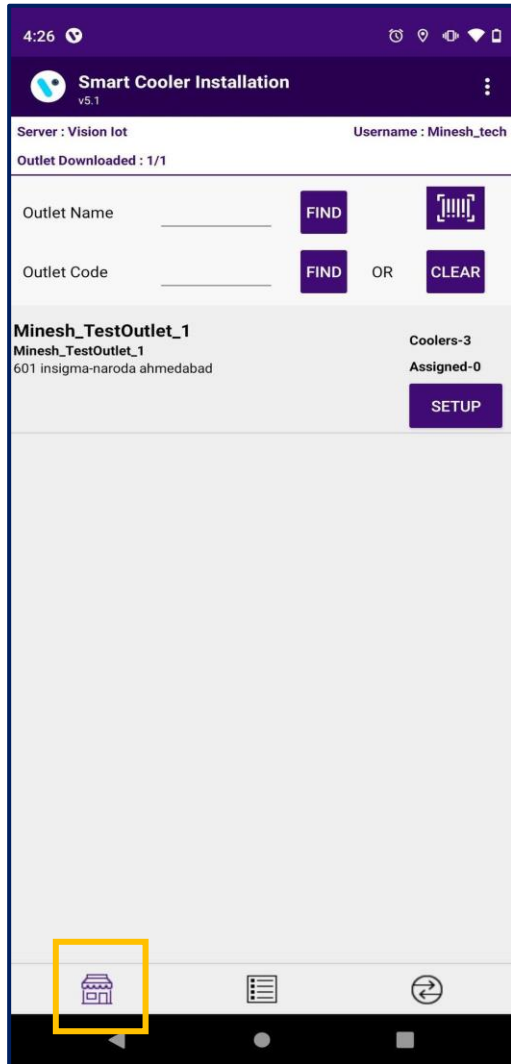
**PURPLE LED**

The device is in GPRS Mode

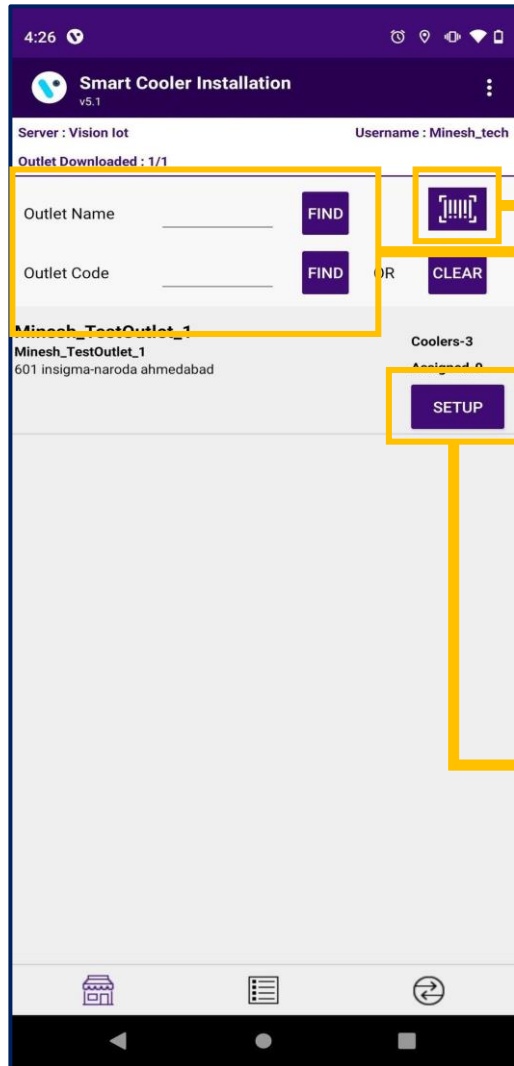


# ASSOCIATION SCREEN

The installation application is compatible only with Smartphones having Android V8.0 and above.



1. After ensuring that the magnet is installed correctly, you need to use the application to associate the device with the cooler.
2. Click on the Association Icon to go to the Association Screen.



### Selecting Outlet – Using Barcode Scanning:

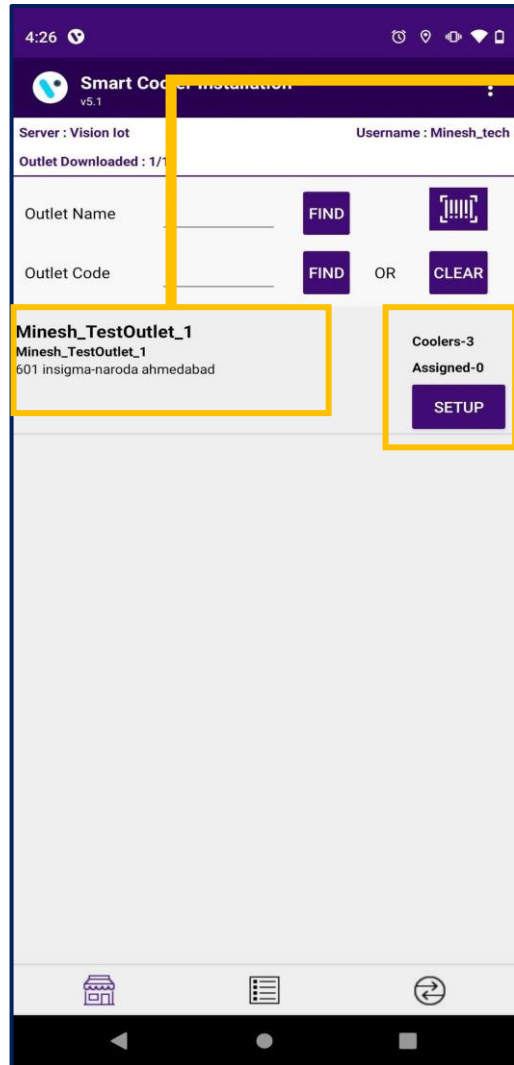
1. Click on the Barcode icon, Barcode scanning window will open.
2. Scan the cooler barcode using the barcode scanner – Position the camera of the iPad in such a way that the bar code of the Cooler (Technical ID) is in the box.
3. Outlet will automatically be selected, and a menu will be shown for choosing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

### Alternate – 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”.

### Selecting Outlet – Manual selection of cooler

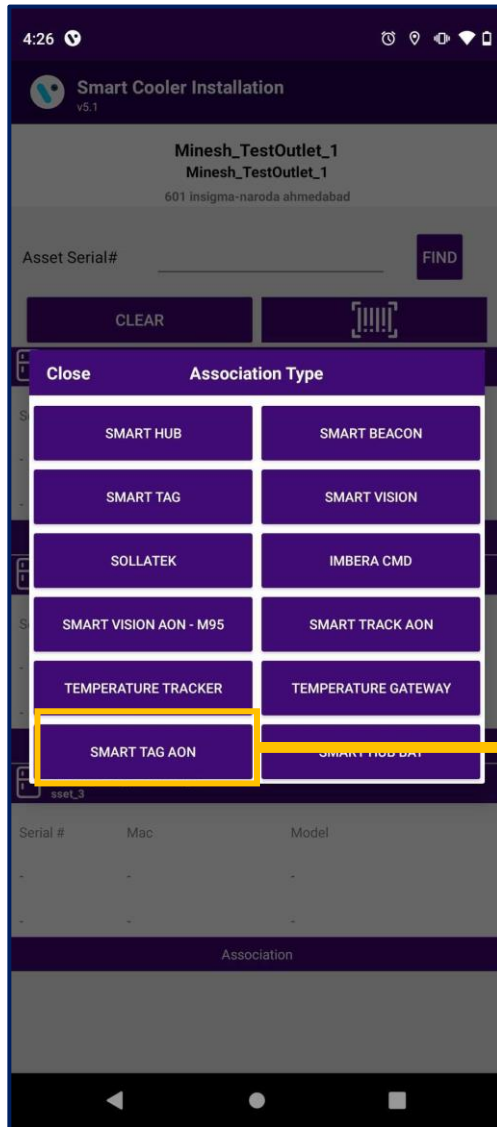
1. If Scanning of the Cooler serial is not possible and the outlet code/name is not known, You can manually select the outlet.



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

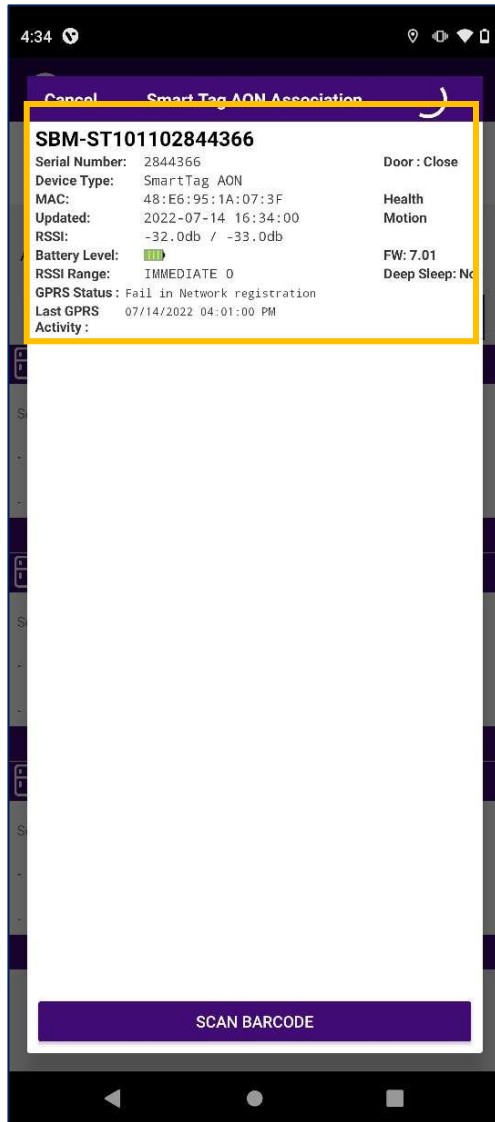
**Coolers – 3**  
Shows the number of coolers in the outlet.

**Associated-0**  
Shows the number of coolers already associated/ provisioned.



### Selecting Smart Device type:

A new window will open to ask for the selection of the device type to be associated with. Click on "Smart Tag AON " to Associate the Smart Tag AON device.



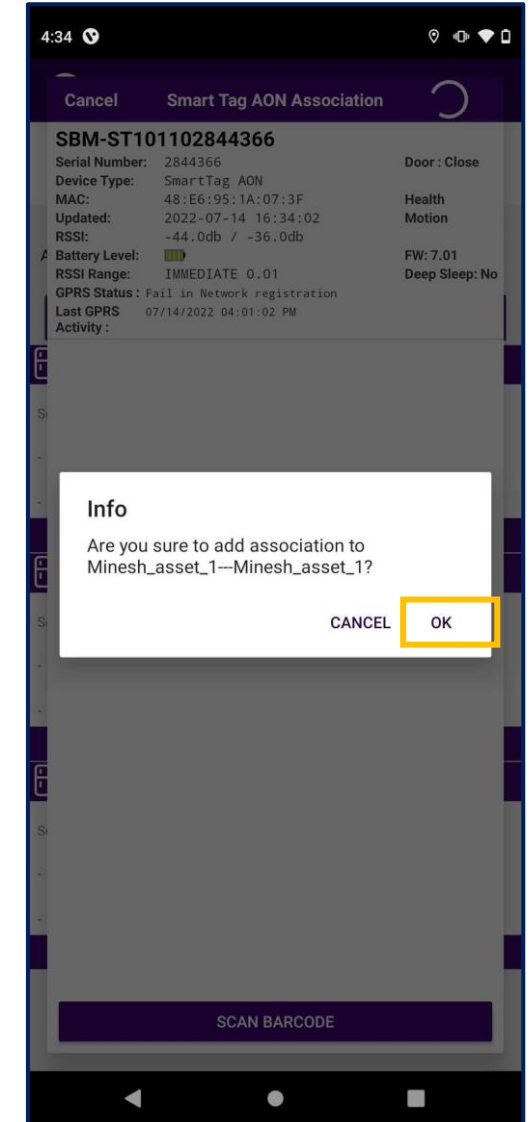
You will see a list of unassociated devices; you can use the door status to identify the device being installed.

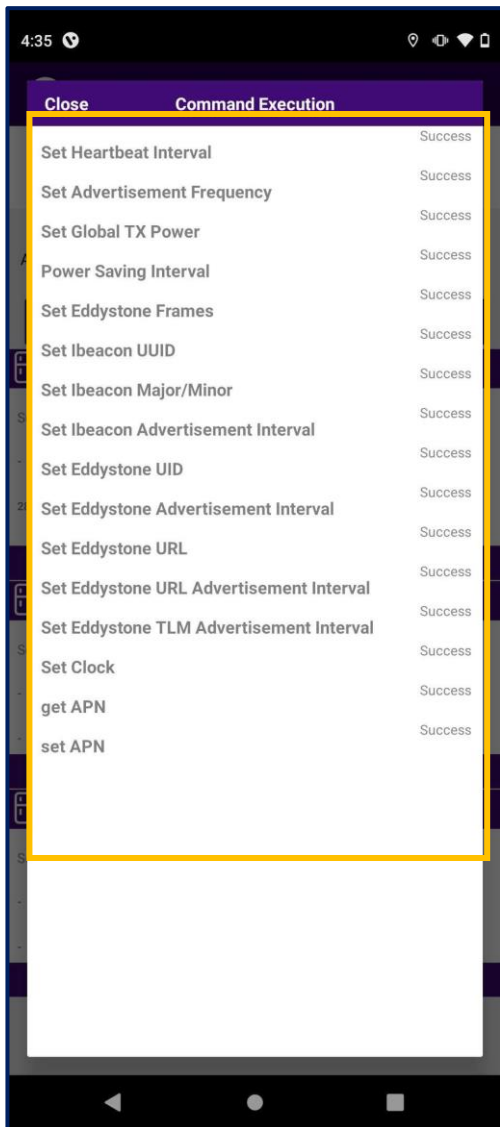
After identifying the device, select the device to start Installation.

The app will give a popup to confirm the association, Click on Ok to confirm.

Users can find the device using the “SCAN BARCODE” button to scan the smart device’s barcode.

Please note the device is only activated when the cooler Door is Closed for 15sec.

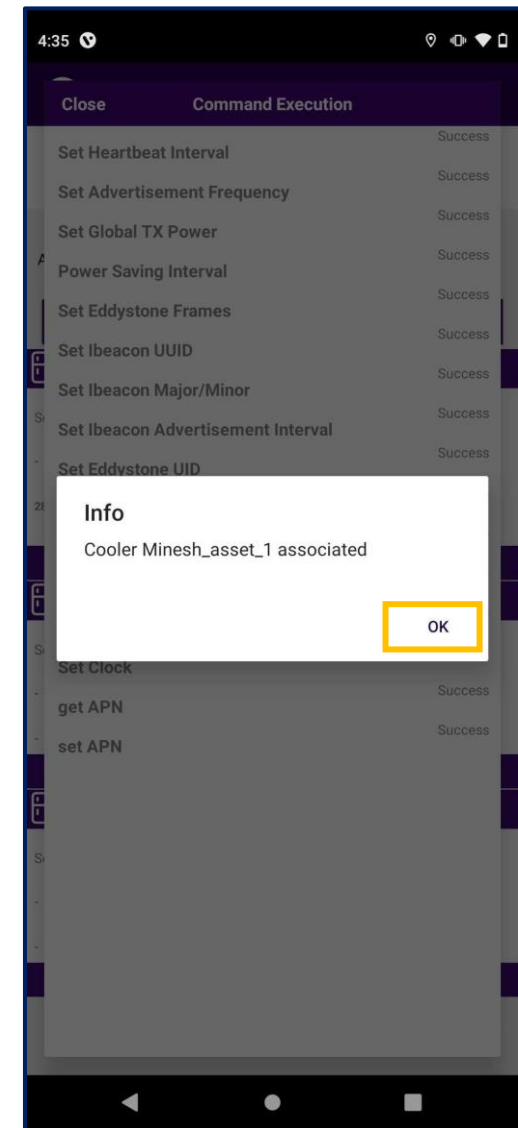




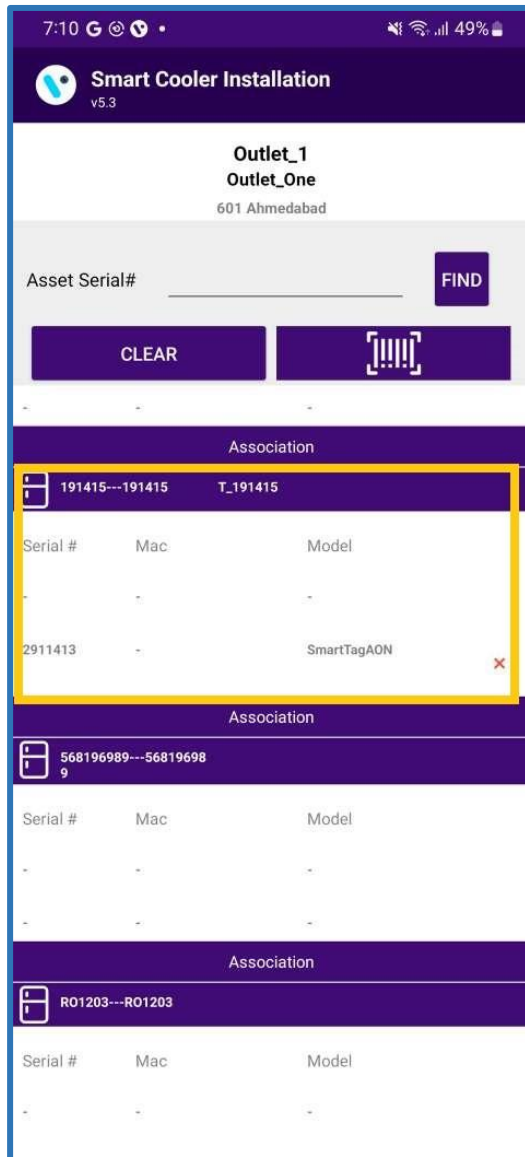
On selection of the device, the app will connect to the device and make all configuration changes and provide status.

A success message will appear after successful association, press OK to close the popup.

When this window appears the device is provisioned, and you can press close to return to the outlet screen.



# ASSOCIATION VERIFY



When the process is completed, you will be returned to the Outlet Screen, and now you see that the Proximity / Smart Tag is associated with the Cooler.



## IMPORTANT NOTE

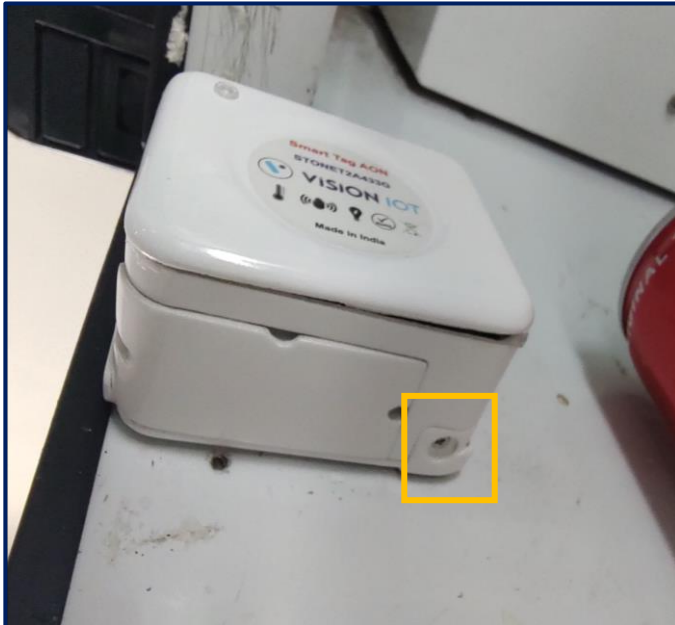
- ✓ After the Successful Association happens device Advertisement will Stop to save the battery.
- ✓ To See it Advertisement after Association needs to give a 5 to 7 Door Cycle(Door Open & Close) to a device within 30 Seconds.
- ✓ If the Device received a valid door open-close count within 30 seconds, It would Start the advertisement for 15 min., During the advertisement period GREEN LED will blink.



# BATTERY REPLACEMENT

## How to remove the SmartTagAON from the Cooler?

- At the Bottom Side of the SmartTagAON device, there is a screw to remove the Smart device from the backplate. Open the bottom-mounted screw using a screwdriver.



**Open the Screw using the  
screwdriver.**



**SCREWDRIVER**  
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Every Order Shipment.

- Slide up the SmartTagAON after removing the screw and, take out the device from the backplate.



Slide Up and Take out the device

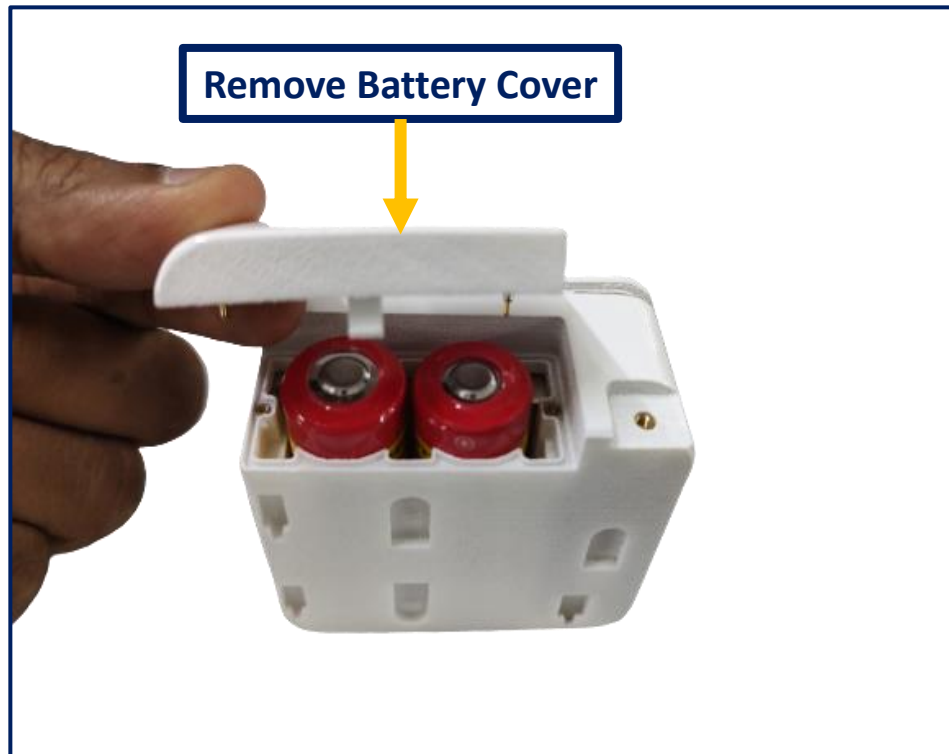
## How to remove the battery from the device?

- Remove the 2 screws mounted on the left and right side of the battery cover using the appropriate screwdriver.



- Remove the battery cover of SmartTagAON and remove the battery outside very carefully.

**Note:** Make Sure the device's cover terminals will not void/cracked while removing the battery cover from the device.



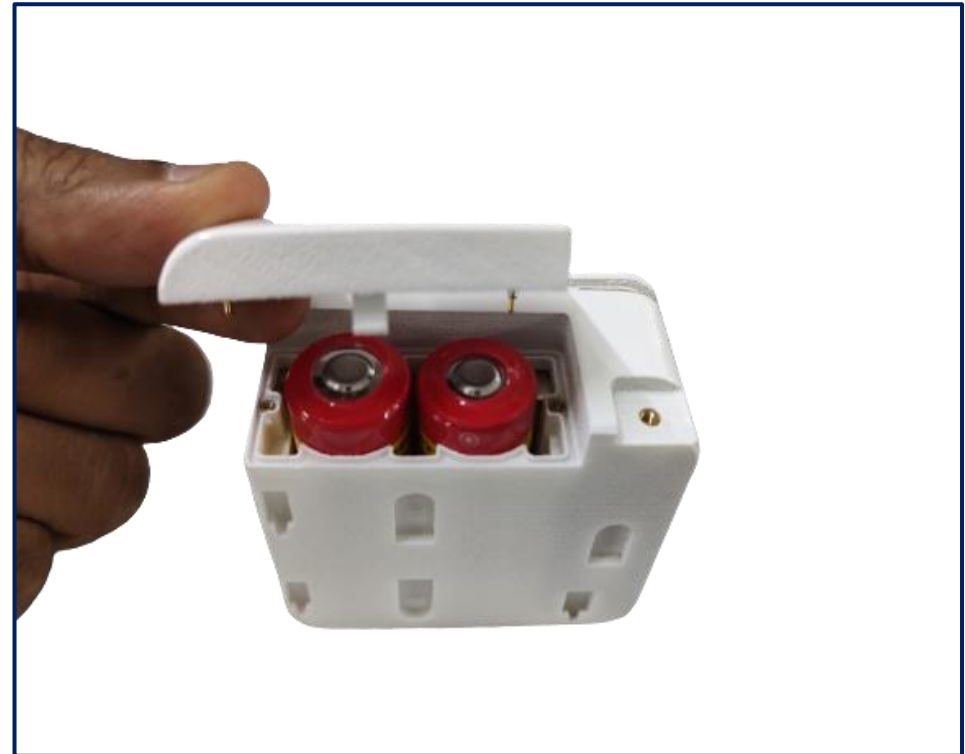
- Remove the used battery from the device.



- Insert the new battery into the battery compartment carefully.



Insert Battery in the compartment



- Red LED will flash on the respective side, which battery is inserted in the wrong position.



Wrong Position of Battery



Wrong Position of Battery

- Close the battery cover and fix two screws tightly.





- Slide the SmartTagAON Device in the back plate and tight the back plate screw using the screwdriver.



Slide Down



Tight Screw using the screwdriver

# FCC Certification

Caution : The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.