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# WAREHOUSE

V\_5.7

NOVEMBER, 2021

APK V\_5.7



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## TABLE OF CONTENTS

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|                                                                 |    |
|-----------------------------------------------------------------|----|
| CHANGELOGS .....                                                | 3  |
| PURPOSE .....                                                   | 4  |
| DEFINITION(S) AND ABBREVIATION(S) .....                         | 5  |
| INTRODUCTION .....                                              | 5  |
| INSTALLATION OF WAREHOUSE PHONE APPLICATION (VERSION 5.7) ..... | 6  |
| ASSOCIATE SMART DEVICE TO COOLER .....                          | 9  |
| A.    ASSOCIATE SMART DEVICE .....                              | 9  |
| B.    LOGS .....                                                |    |
| 13 SCAN COOLER (DATA DOWNLOAD AND REMOVE ASSOCIATION) .....     |    |
| 15 A.  SCAN COOLER .....                                        |    |
| 15 B.  LOGS .....                                               |    |
| 20 CHANGE FFA SETTINGS(FFA) .....                               |    |
| 22 CHECK COOLER STATUS .....                                    |    |
| 24 A. DFU .....                                                 |    |
| 25 SCAN NEARBY DEVICES .....                                    |    |
| 27 SCAN INSIGMA SMART DEVICE .....                              |    |
| 27 SCAN CAREL SMART DEVICE .....                                | 28 |
| LIST OF ERRORS, ALERTS, AND OK MESSAGES .....                   | 29 |
| APPLICATION VERSION LOGS .....                                  | 31 |
| MINIMUM REQUIREMENTS FOR THE PHONES .....                       | 33 |
| SUPPORTED PHONES .....                                          | 33 |

## CHANGELOGS

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| Version | Date       | Author(s)          | Description of Modifications |
|---------|------------|--------------------|------------------------------|
| 1.0     | 28.06.2019 | DIMITER KYURKCHIEV | Initial Version              |

|            |                   |                    |                                               |
|------------|-------------------|--------------------|-----------------------------------------------|
| <b>2.0</b> | <b>07.01.2020</b> | ANASTAS BINCHEV    | Updated Documentation and Application Version |
| <b>2.1</b> | <b>11.03.2020</b> | ANASTAS BINCHEV    | Updated Documentation and Application Version |
| <b>2.2</b> | <b>30.04.2020</b> | KONSTANTIN TSANKOV | Updated Documentation and Application Version |
| <b>3.0</b> | <b>01.06.2020</b> | AKASH PANCHAL      | Updated Documentation and Application Version |
| <b>3.1</b> | <b>04.06.2020</b> | DIMITER KYURKCHIEV | Updated Documentation and Application Version |
| <b>3.2</b> | <b>05.08.2020</b> | AKASH PANCHAL      | Updated Documentation and Application Version |
| <b>3.3</b> | <b>21.08.2020</b> | AKASH PANCHAL      | Updated Documentation and Application Version |
| <b>3.8</b> | <b>01.04.2021</b> | AKASH PANCHAL      | Updated Documentation and Application Version |
| <b>4.0</b> | <b>02.04.2021</b> | AKASH PANCHAL      | Updated Documentation and Application Version |
| <b>4.9</b> | <b>12.08.2021</b> | AKASH PANCHAL      | Updated Documentation and Application Version |
| <b>5.7</b> | <b>23.11.2021</b> | AKASH PANCHAL      | Updated Documentation and Application Version |

## PURPOSE

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- ✦ Create new associations between coolers and smart devices.
- ✦ Data download and remove associations of smart devices for coolers.
- ✦ Change FFA/JEA Controller parameters.
- ✦ Check the cooler status of smart devices for coolers.

- ✦ Check the Smart Device Advertisement Status.

### KNOW BUGS

- ✦ **SCAN COOLER SCREEN:** Carel devices can not be scanned with the Barcode button.

### DEFINITION(S) AND ABBREVIATION(S)

---

| NAME | ABBREVIATION |
|------|--------------|
|------|--------------|

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <b>BLE</b>          | Bluetooth Low Energy                                    |
| <b>FFA</b>          | Sollatek FFA Controller                                 |
| <b>JEA</b>          | Sollatek JEA Controller                                 |
| <b>FFX</b>          | Sollatek FFX Smart Device                               |
| <b>Cooler SN</b>    | Cooler Manufacturer Serial Number (example RO924611919) |
| <b>Technical ID</b> | CCH Barcode on the cooler (example: 04280000106331)     |

## INTRODUCTION

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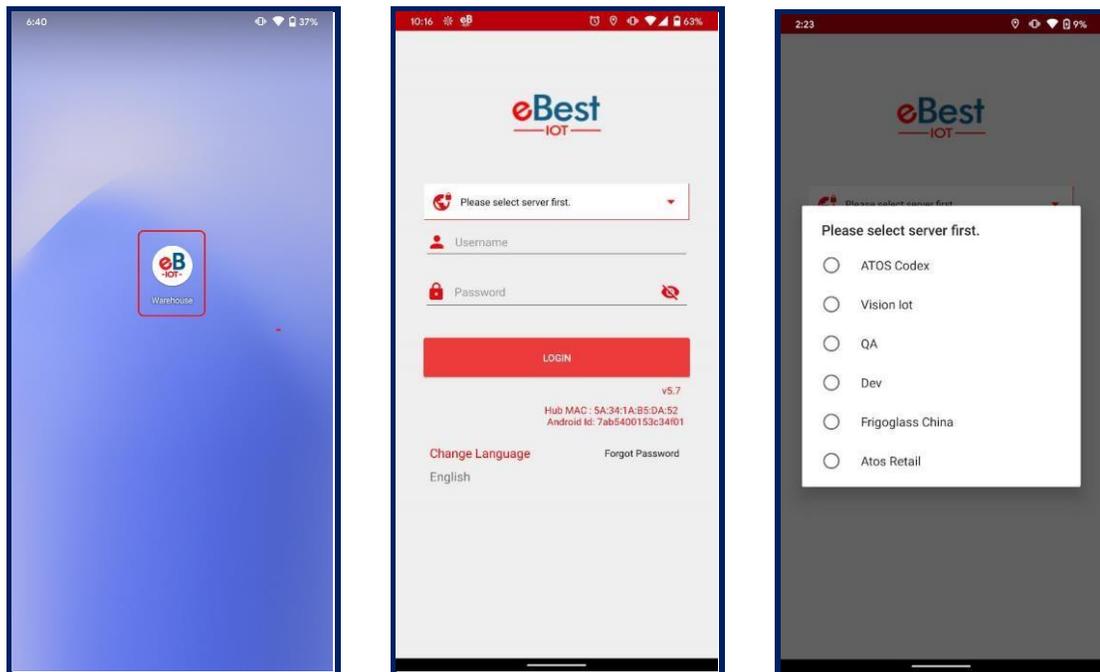
### Application will:

- ✦ Create new associations between smart devices and coolers.
- ✦ Download the cooler's data and upload it on the cloud.
- ✦ Data download and remove associations of smart devices for coolers.
- ✦ Change Controller (FFA/JEA) parameters of the coolers.
- ✦ Check the cooler status of smart devices for coolers.
- ✦ Check the Smart Device Advertisement Status.

## INSTALLATION OF WAREHOUSE PHONE APPLICATION (VERSION 5.7)

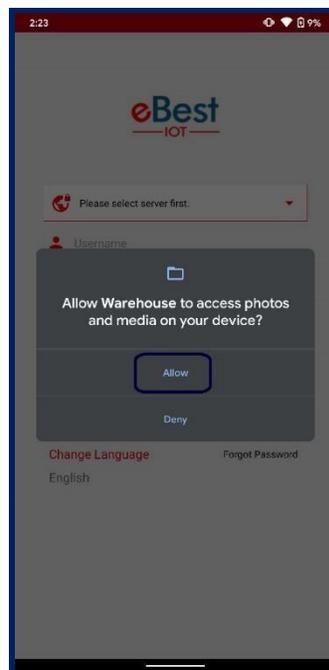
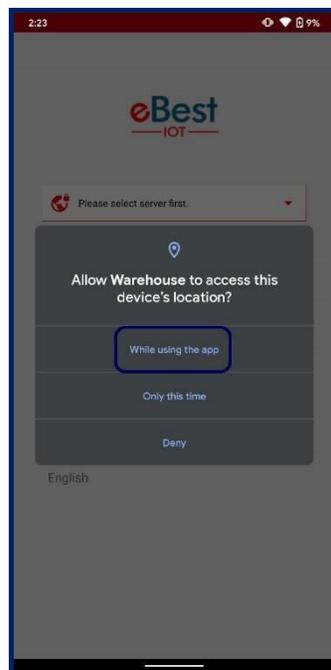
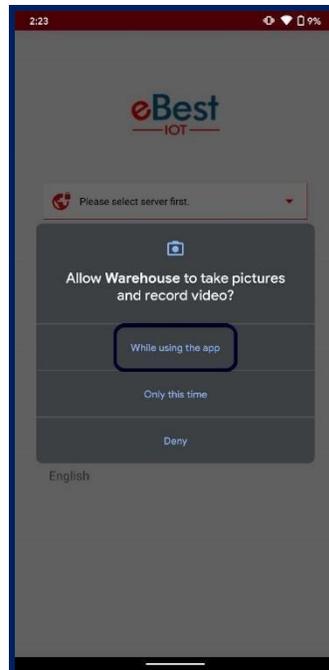
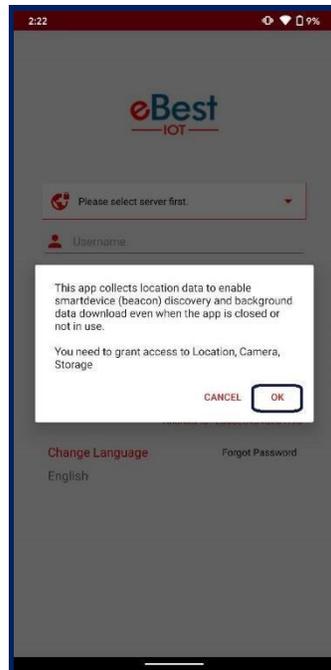
---

1. Download application form Google's Playstore. Search "**WAREHOUSE EBEST**" and download and then Install the application. [Link](#)
2. Click on the **WAREHOUSE** application icon. It will launch the application.  
**Note:** Before launching the application, please ensure that Bluetooth & Internet connection are enabled.



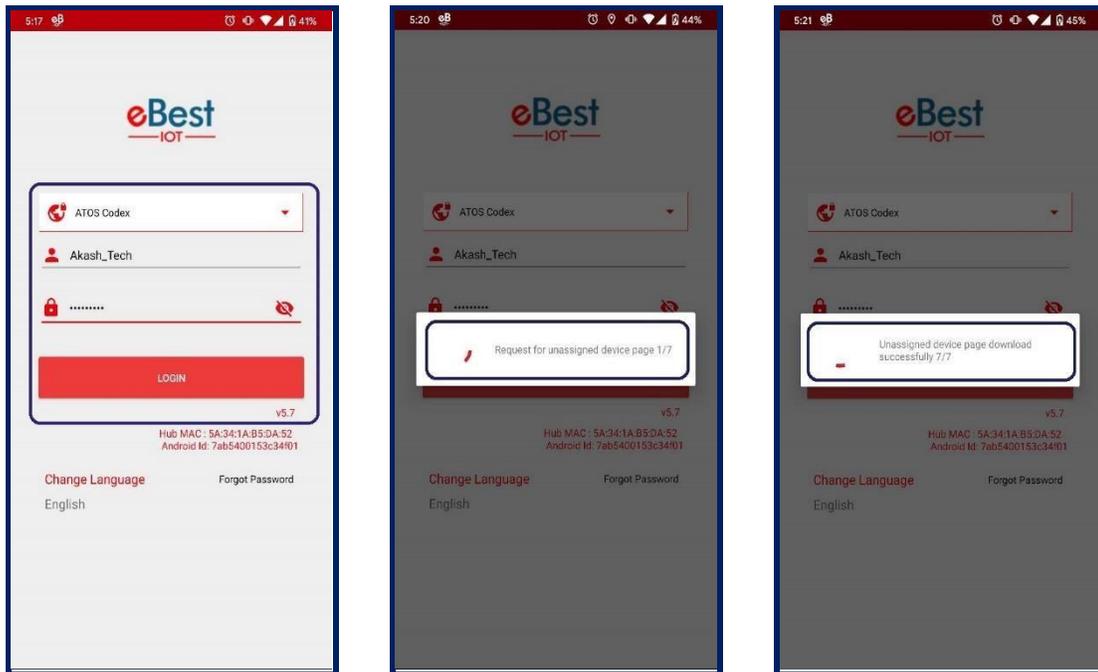
- Drop-down menu containing list of available servers is visible. Chose the one the user is assigned to.
- If a user is logging for the first-time **Username** (User ID) and **Password** should be entered, and language should be chosen. The username and password are case-sensitive.
- To change the language, tap on **Change Language** and select the appropriate one for you. Currently, there is English, Macedonian, and Italian language support available.
- Depending on the Android Version user may get several different prompts to confirm access to the Camera, Bluetooth, Location services, Storage, etc.

- ✦ The user should Allow all requested for the application to work properly.
- If the user gets a prompt asking to **Ignore Battery Optimizations** confirm with **YES**.

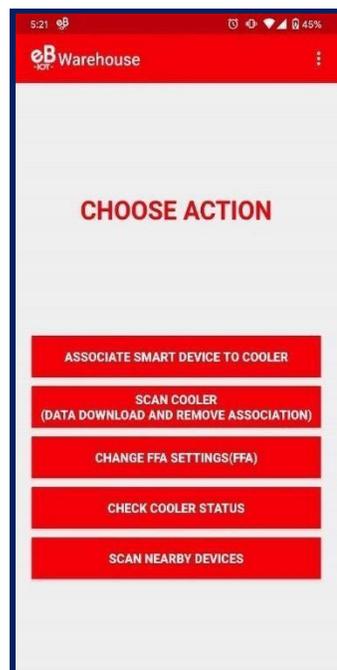


- Provide valid credentials and tap on the Login button, please be advised that the application will need some time to download data from the cloud.

**Note:** Internet connectivity is required during login otherwise login will fail and the application will not work



3. After successful login, the following screen will appear. Please choose an **ACTION** from the list as per the required operation.



- ✦ **ASSOCIATE SMART DEVICE TO COOLER** – For association of a smart device with a cooler.
- ✦ **SCAN COOLER (DATA DOWNLOAD AND REMOVE ASSOCIATION)** – For downloading data and removing association from a cooler.
- ✦ **CHANGE FFA SETTINGS(FFA)** – For changing controller parameters of a cooler.
- ✦ **CHECK COOLER STATUS** – For checking cooler association status.
- ✦ **SCAN NEARBY DEVICES** – For checking smart device advertisement status.

## ASSOCIATE SMART DEVICE TO COOLER

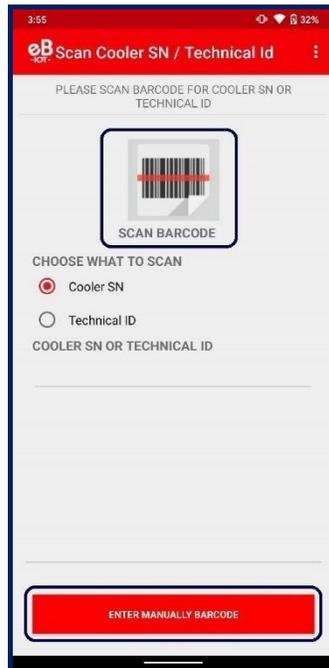
### A. ASSOCIATE SMART DEVICE

- ✦ After successful login select **ASSOCIATE SMART DEVICE TO COOLER** option for associating a smart device with a cooler.
- ✦ Please choose one of the two options and tap on **NEXT** (see second screenshot). **Note – Sollatek Devices associated within the warehouse will be put into deep sleep mode automatically after the association is completed.**
- ✦ After choosing one of the two options the following screen will appear. If a SmartTag will be associated then please choose **SMART TAG** and click on **START**.  
**Note: Select Device Type as Per Smart Device Type Which needs to be associated.**

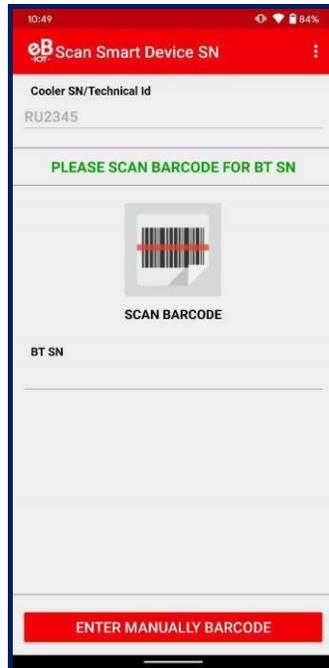




Scan the barcode of the cooler - Select which identification method you will use for the association and then click on the **SCAN BARCODE** icon or **ENTER THE ID MANUALLY**.



- ✦ After opening and closing the door of the cooler to wake up the SmartTag, tap again on **SCAN BARCODE** and scan the barcode of the SmartTag. SmartTag Serial Number could be also entered manually by tapping back and tapping on **ENTER MANUALLY BARCODE**. On this screen, the Cooler Serial Number which was scanned in the previous step could be seen.



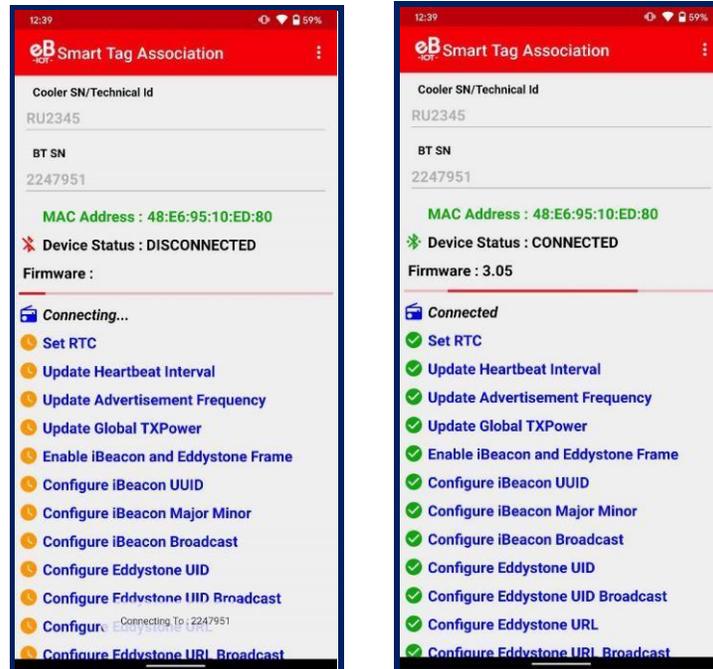
- ✦ After the SmartTag Serial Number is successfully scanned the following screen will be shown. It will initialize the association process and respectively show a success message.



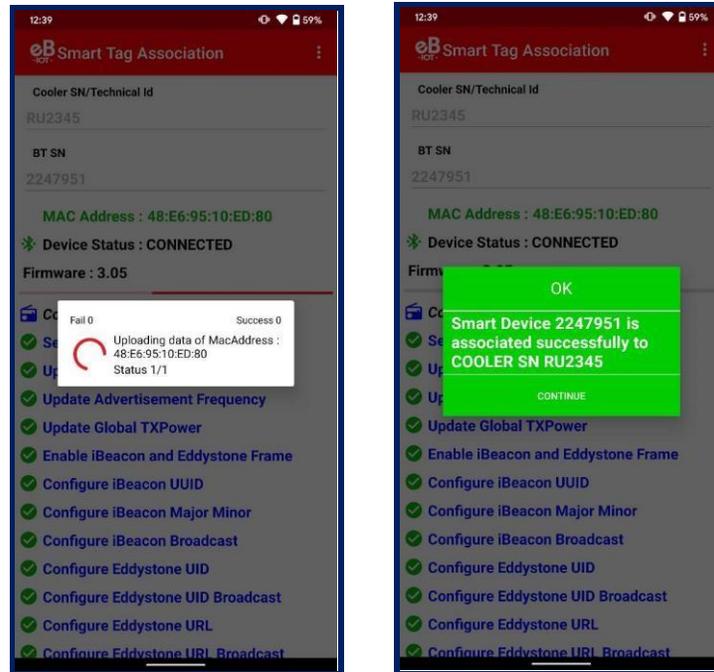
- ✦ If the latest Firmware Version of the Smart device is available then DFU will happen first and then the association process will initialize.

**If Scanning Timer reaches 30 seconds open and close the door again. If this doesn't help check if the SmartTag and the Magnet are installed correctly.**

- ✦ The Cooler Serial Number and SmartTag Serial Number can be seen on the screen.

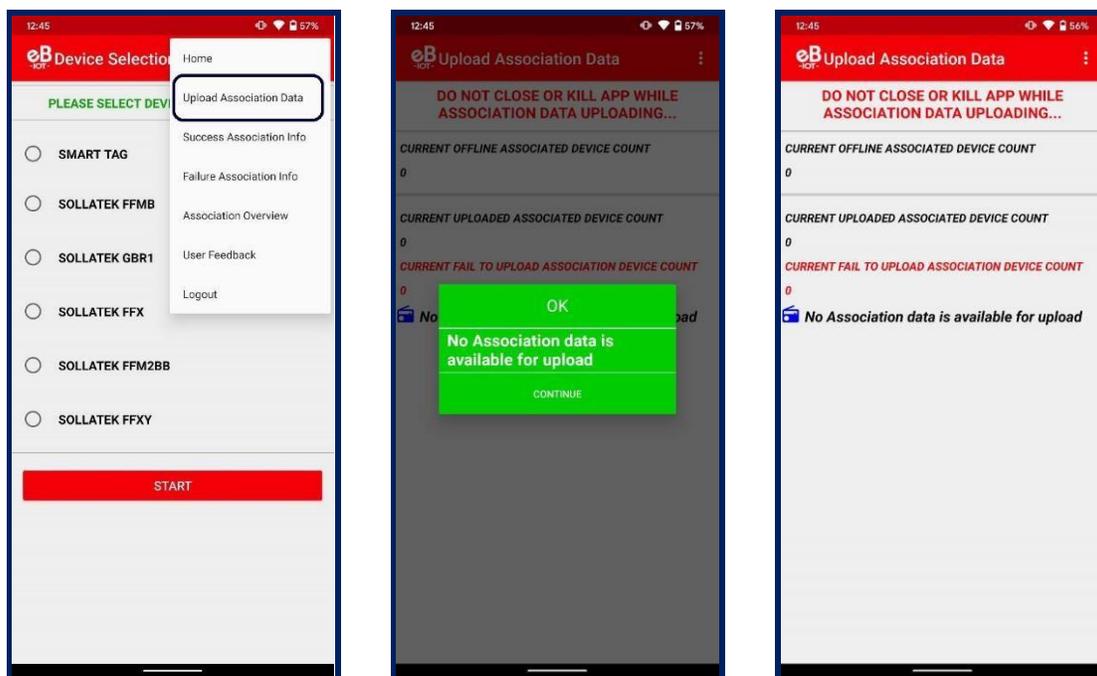


- ✦ After a successful association of a cooler with a smart device and the successful upload of that association to the cloud an **OK** message is shown.

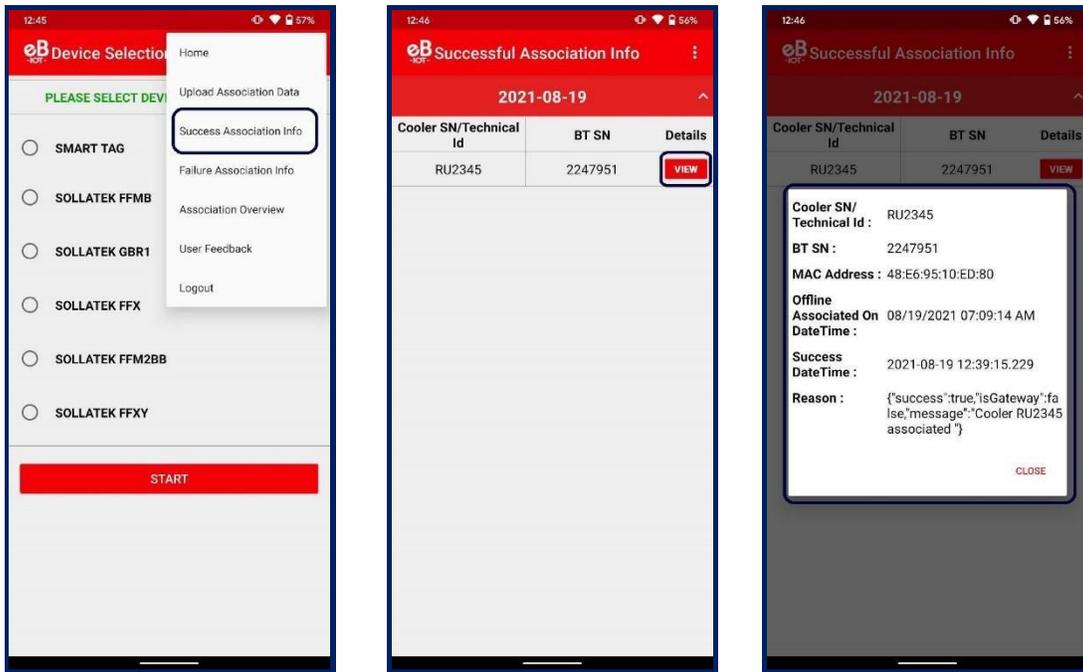


## B. LOGS

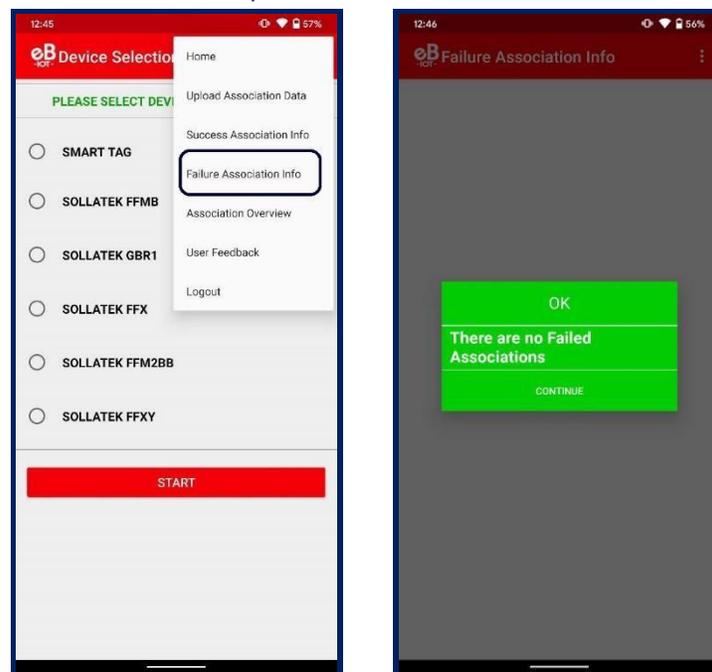
- ✦ **UPLOAD ASSOCIATION DATA** - To check if all the associated data is uploaded, tap on the hamburger menu in the upper right corner and then tap on **Upload Association Data**. Once data is uploaded a prompt saying all Association data uploaded was successful will appear. If there is no data for upload a prompt saying that will be shown.



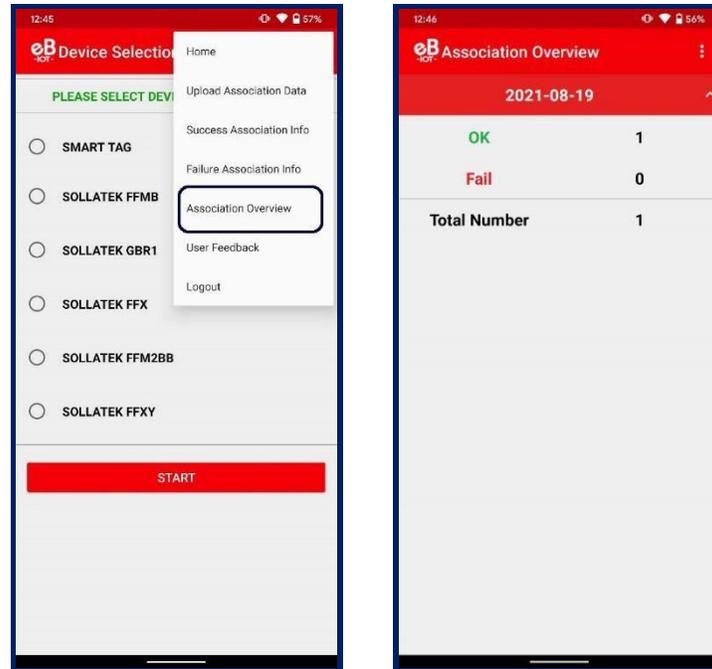
- ✦ **SUCCESS ASSOCIATION INFO** - To check all Successful Associations Info, tap on the hamburger menu in the upper right corner and then tap on **Success Association Info** and view the button showing details of the association.



- ✦ **FAILED ASSOCIATION INFO** - To check all Failed Associations Info, tap on the hamburger menu in the upper right corner and then tap on **Failure Association Info**.



- ✦ **ASSOCIATION OVERVIEW** - To check the Associations Overview, tap on the hamburger menu in the upper right corner and then tap on **Association Overview**.



## SCAN COOLER (DATA DOWNLOAD AND REMOVE ASSOCIATION)

### A. SCAN COOLER

- ★ Users can download data from a Smart device by scanning **Cooler CN** or **Technical ID**. Also to remove associations of smart devices from coolers.

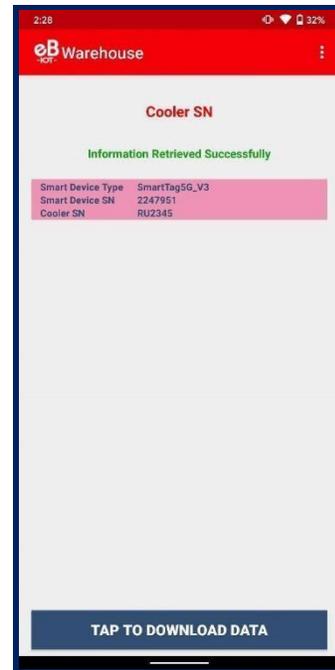
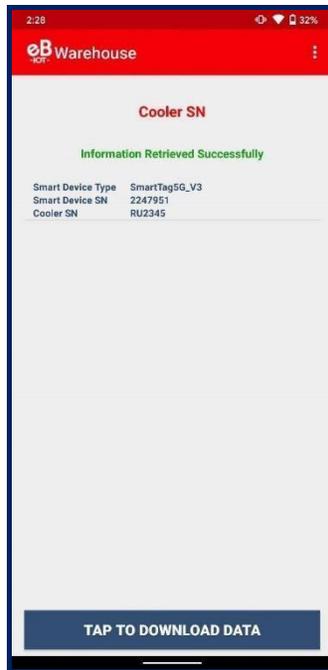
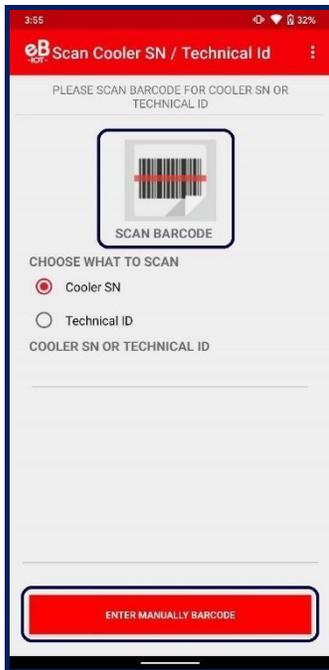
**Note:** The process of data download and remove association is the same for all the Smart devices.



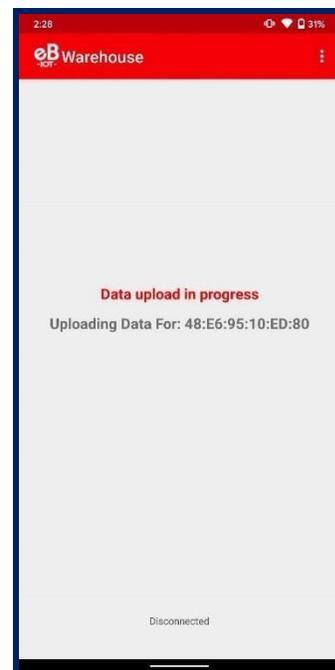
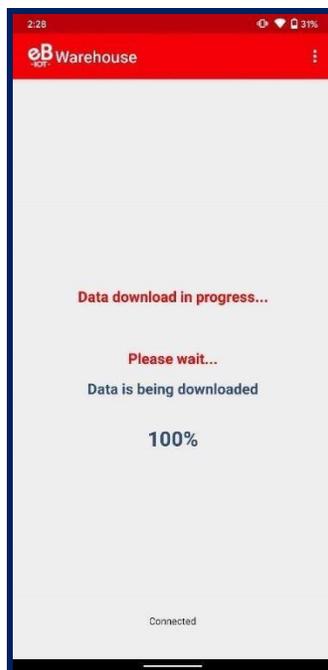
- ✦ Using **SCAN COOLER (DATA DOWNLOAD AND REMOVE ASSOCIATION)** users can Perform:

## I. DATA DOWNLOAD

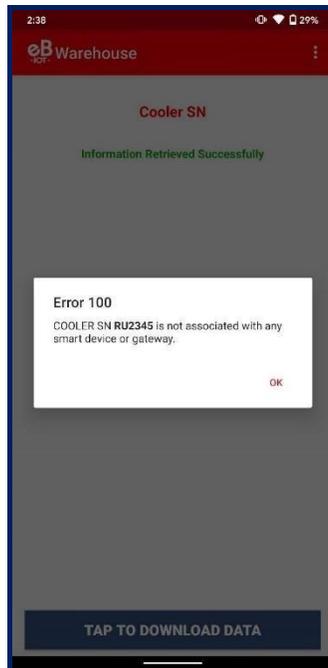
- ✦ Users can identify particular assets by **SCAN BARCODE** - Cooler SN or Technical ID.
- ✦ The user can also search by **ENTER MANUALLY BARCODE** for entering Cooler SN or Technical ID. (Image 1).
- ✦ Information about the asset is presented. (Image 2).
- ✦ Tap on the smart device from which data needs to be downloaded. (Image 3).



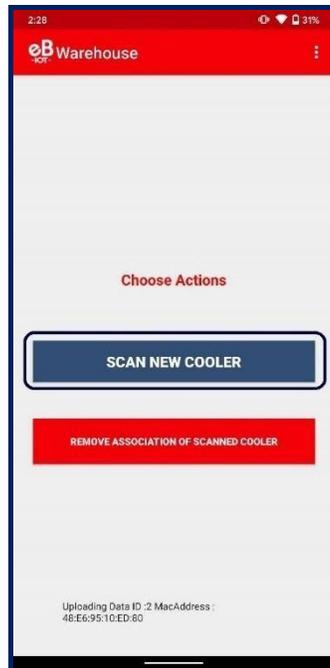
✦ Tap on **TAP TO DOWNLOAD DATA** to start data download from smart device.



- ✦ If Cooler SN or Technical ID is invalid then the application will give an error message which is visible in the image below.

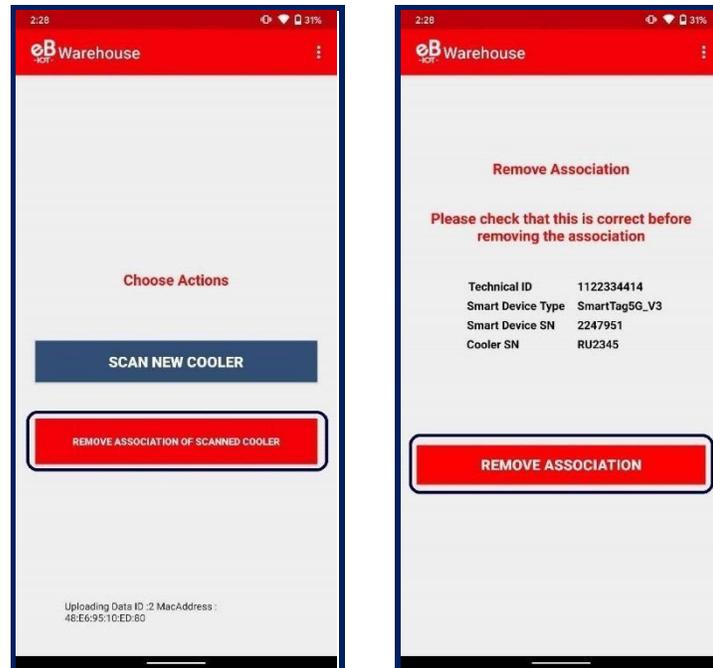


- ✦ After the data is successfully downloaded from the smart device below screen will appear.
- ✦ Users can **SCAN NEW COOLER** or enter manually Cooler SN or Technical ID as shown in the below image.

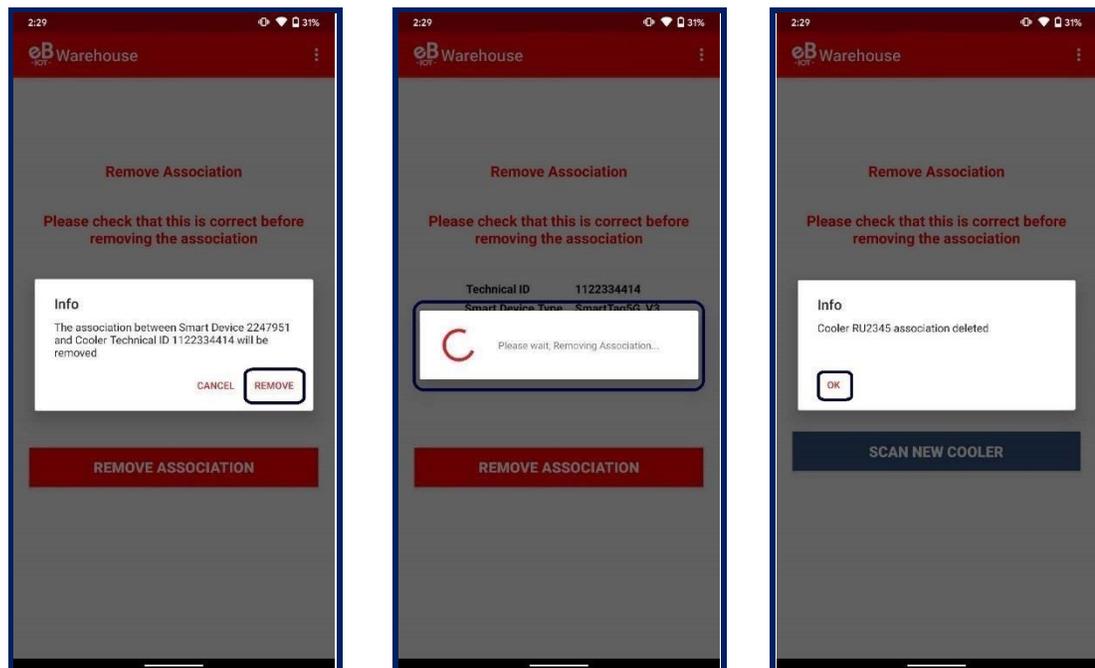


## II. REMOVE ASSOCIATION

- ✦ After the Data Upload process is completed below screen will appear, where the association can be removed, to do so click on the **REMOVE ASSOCIATION OF SCANNED COOLER** button.
  
- ✦ Click on **REMOVE ASSOCIATION** to remove device association from the cooler as shown in the image below.



- ✦ A pop-up message will appear prompting to remove the association. Click the **REMOVE** button to remove the association of the device or **CANCEL** not to remove the association.
- ✦ After removing the association successfully, a pop-up window will prompt you to confirm, click on the **OK** button.



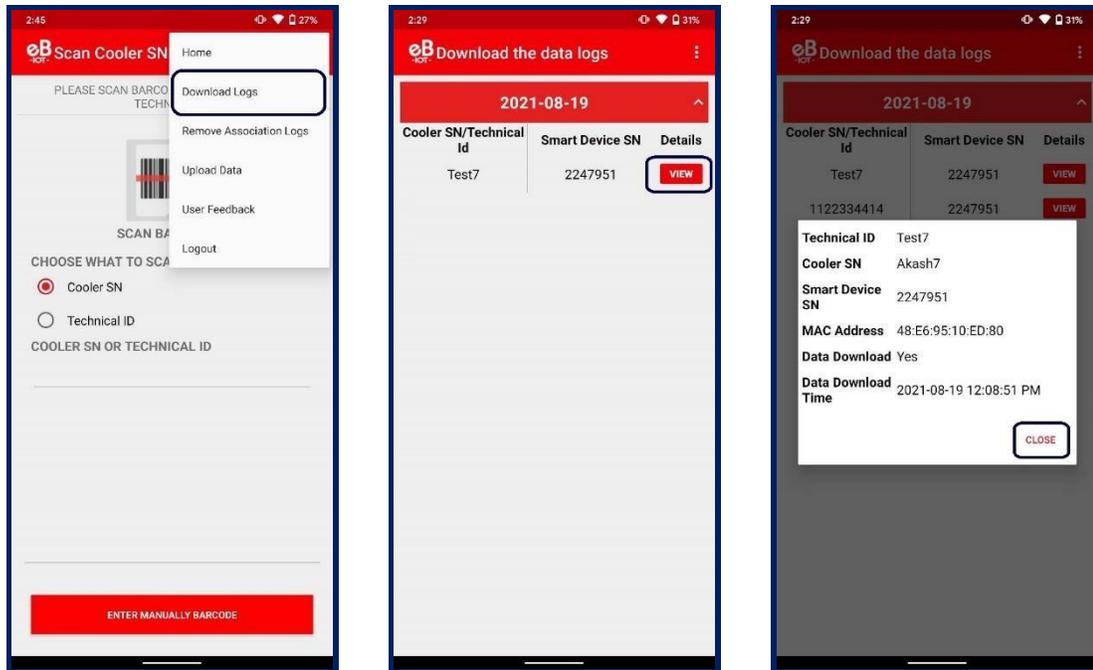
- ✦ If the device is not found within the next 60 seconds the user will be prompted to Retry the scan for the device or to remove the association. This might happen when a device has a low or no battery charge or some other issue. Clicking on **RETRY** will again scan for the device.



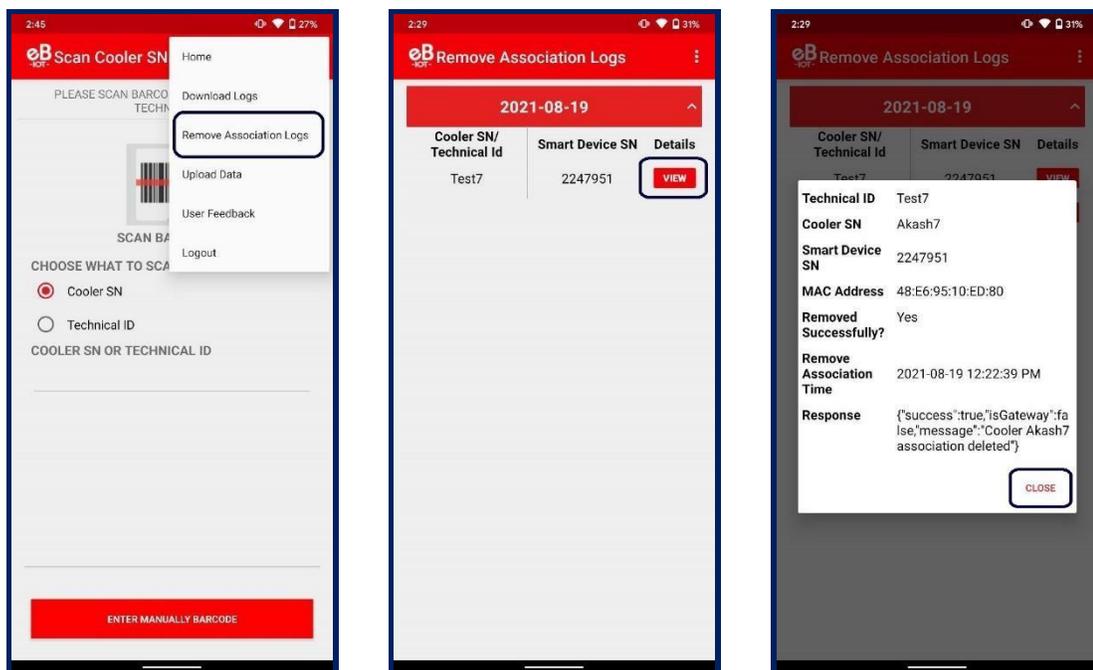
- ✦ Choosing Remove association will bring you back to the **First Point** of the current section and removal of the association will be possible.

## B. LOGS

- ✦ **DOWNLOAD LOGS** - To all the data that is downloaded, tap on the hamburger menu in the upper right corner and then tap on **DATA DOWNLOAD LOGS**.

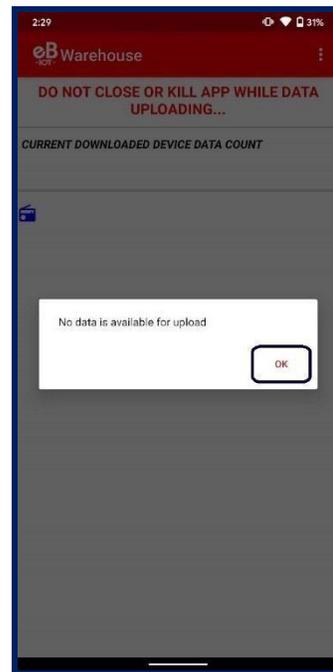
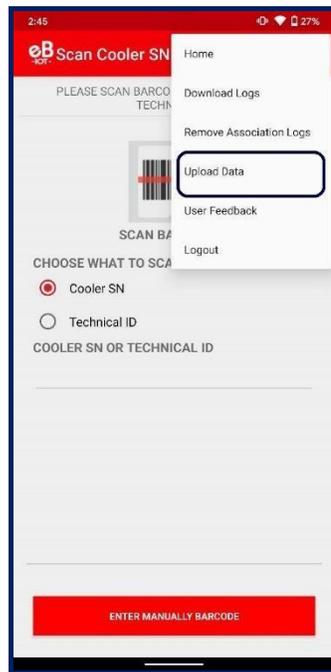


- ✦ **REMOVE ASSOCIATION LOGS** - To check the removed association, tap on the hamburger menu in the upper right corner and then tap on **REMOVE ASSOCIATION LOGS**.



- ✦ **UPLOAD DATA** - If any network error or loss of the internet connection occurs during download, the data will be stored in the application. After getting proper internet connection click on the

**UPLOAD DATA** button to upload the data stored in the application. **Note:** Do not close the application while data is uploading.



## CHANGE FFA SETTINGS(FFA)

- ✦ Change specific controller parameters via the Warehouse application. To change specific parameters of the **FFA** controller for Sollatek device types.

### List of Supported Device to Change FFA Settings:

- **Sollatek FFM2BB** - FFA
- **Sollatek FFM-B** - FFA
- **Sollatek FFX** - FFA / JEA
- **Sollatek FFXy** - FFA / JEA
- **Sollatek GBR3** - FFA
- **Sollatek JEA** - JEA

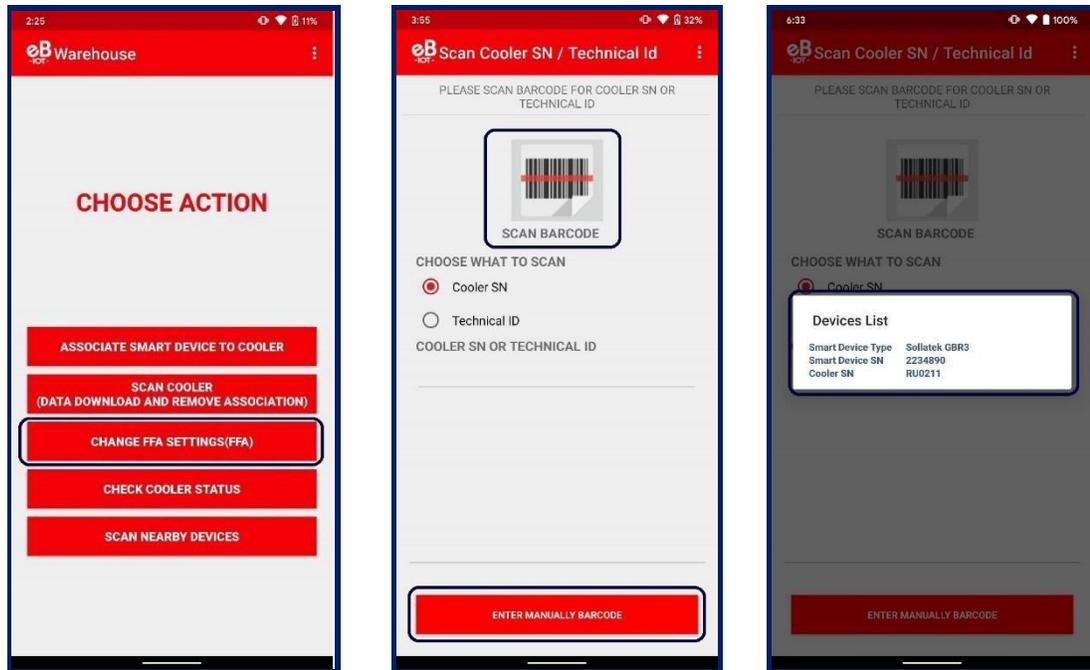
✦ Below FFA/JEA Parameters are available for change using **CHANGE FFA SETTING (FFA)** functionality.

- **dnI** - Normal mode cut-in value – Day Mode
- **dnO** - Normal mode cut-out value – Day Mode
- **nnI** - Normal mode cut-in value – Night Mode
- **nnO** - Normal mode cut-out value – Night Mode
- **dF3** - Defrost Start Interval – In Hours
- **dF4** - Defrost End Interval – In Minutes
- **L0** - Enable Light Regulation by Logic

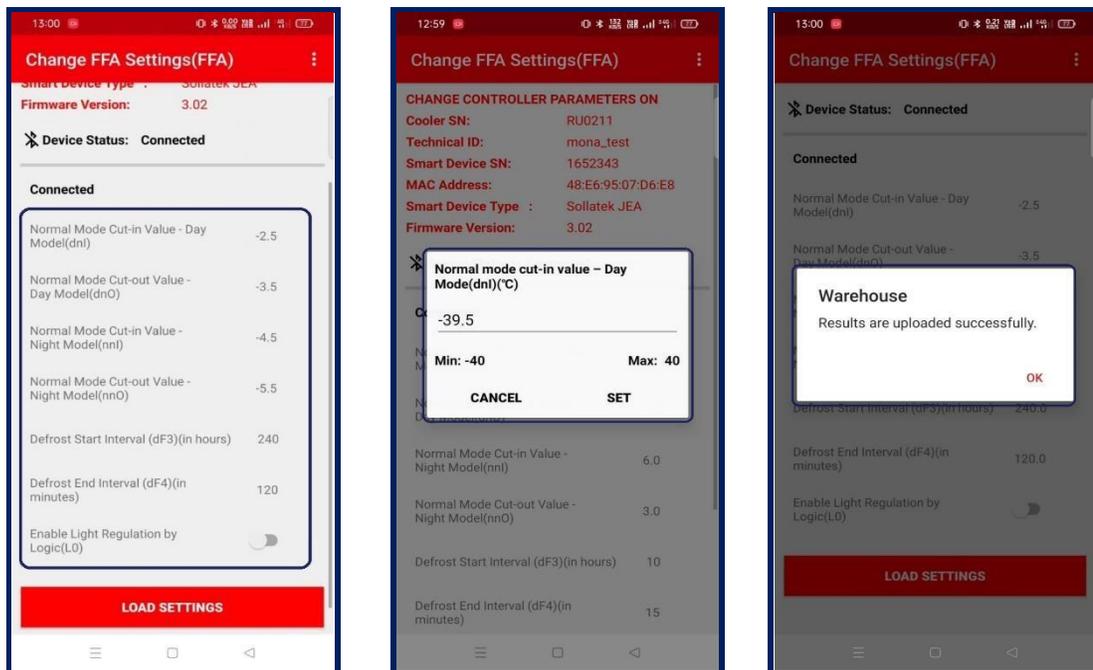
✦ Choose the **CHANGE FFA SETTING(FFA)** option to update the FFA/JEA Parameters of smart devices.

✦ Users can identify particular 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.

✦ Information about the asset is presented for changing FFA/JEA parameters and by tapping on the Parameter the user can change the values of the FFA parameters.

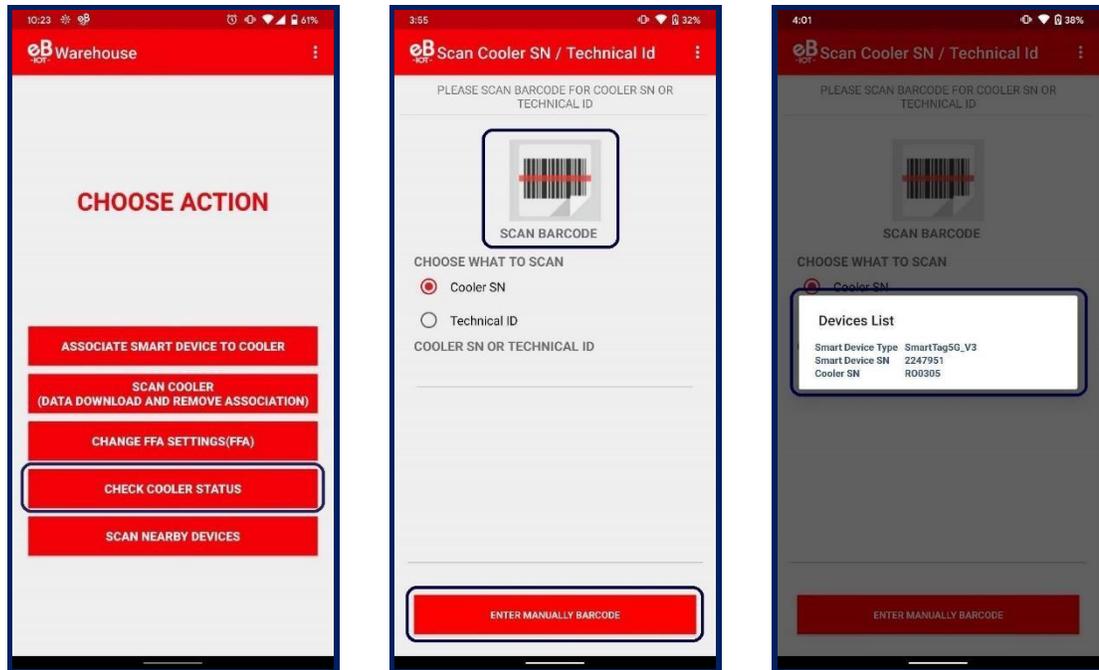


- ✦ By tapping on the parameter, the user can change the values of the FFA parameter and after successfully changing the FFA parameter success message will appear.

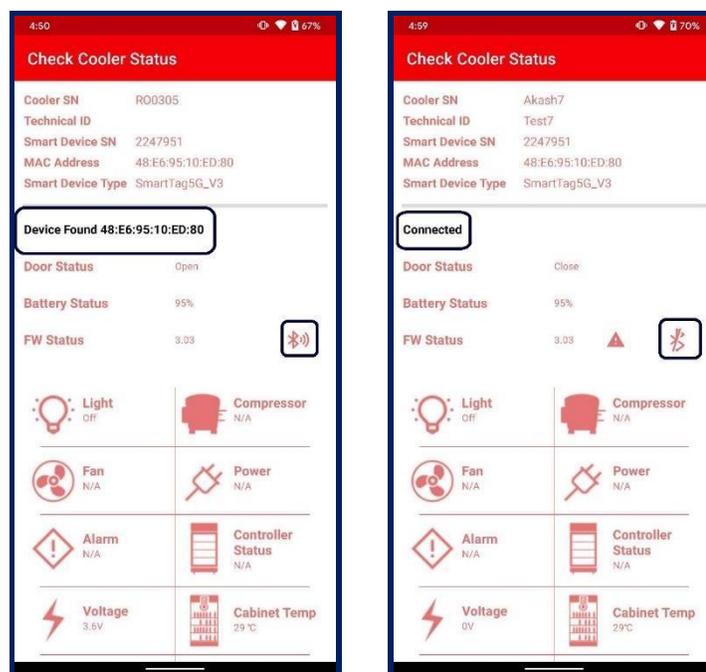


## CHECK COOLER STATUS

- ✦ 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 particular 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.



Information about the asset is presented to check the cooler status.



Below is the data which is shown on the **CHECK COOLER STATUS** screen:

**Showing for EBEST Smart device:**

✦ **BATTERY STATUS** – Showing Battery Status **HIGH, MEDIUM, POOR**

**Showing for EBEST and SOLLATEK Smart device:**

✦ **DOOR STATUS** – Showing Door status **OPEN** or **CLOSE**

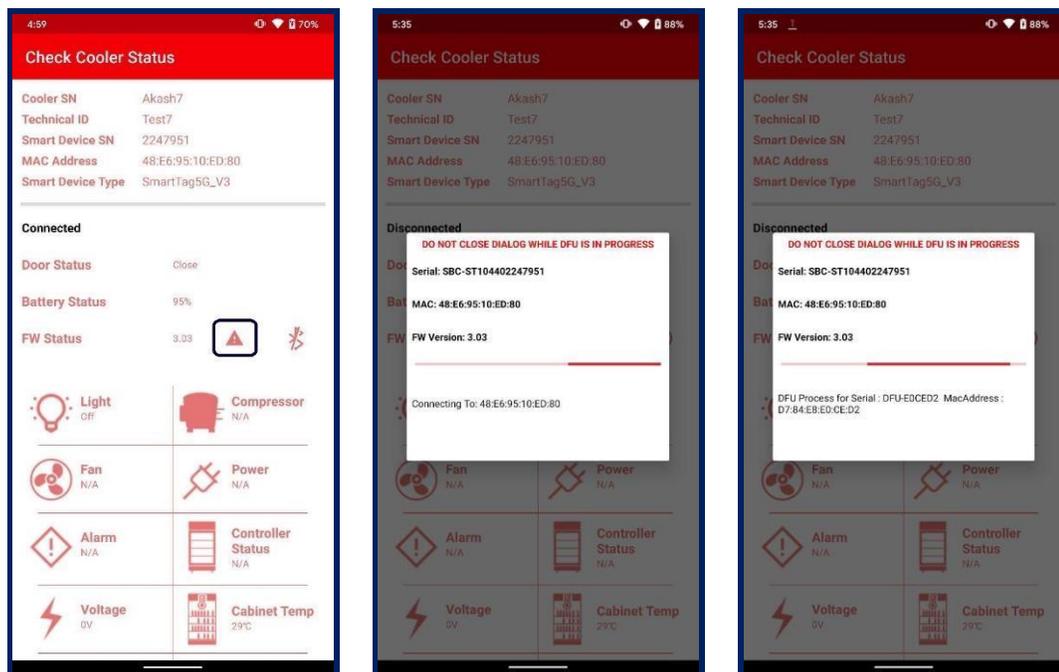
- ★ **FW STATUS** – Showing **FIRMWARE VERSION** and **UPDATE** option
- ★ **LIGHT** – Showing **LIGHT ON/OFF** status

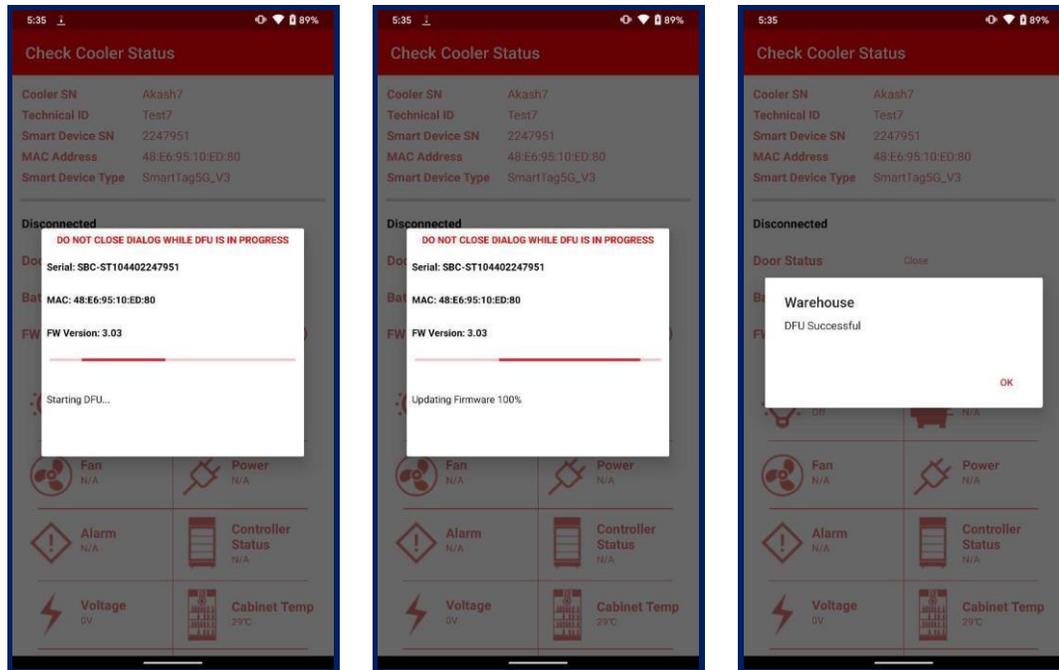
### Showing for SOLLATEK Smart device:

- ★ **COMPRESSOR** – Showing Cooler **COMPRESSOR ON/OFF** status
- ★ **FAN** – Showing Cooler **FAN ON/OFF** status
- ★ **POWER** – Showing Smart device **POWER Status MAINS/BATTERY**
- ★ **ALARM** – Showing Cooler **Alarm COUNT** in Status
- ★ **CONTROLLER STATUS** – Showing Cooler Controller Status **OK /NOT OK**
- ★ **VOLTAGE** – Showing Cooler Voltage in **VOLT**
- ★ **CABINET TEMP** – Showing Cooler Cabinet Temperature in **CELSIUS**
- ★ **GPRS STATUS** – Showing **SUCCESSFUL GPRS CONNECTION** in status
- ★ **LAST GPRS ACTIVITY** – Showing **LAST GPRS ACTIVITY DATE-TIME** in Status

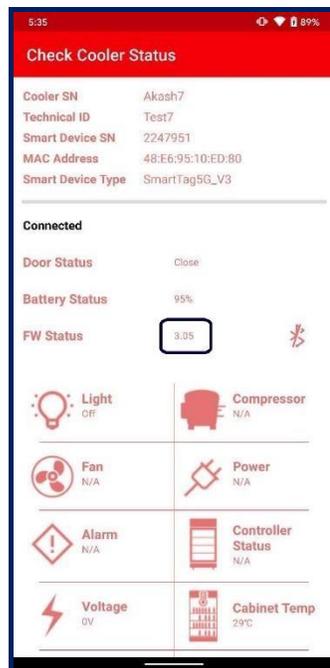
### A. DFU

- ★ The **DFU (Direct Firmware Upgrade)** of the Smart device can be performed by clicking on the Update notification as shown in Image 1.
- ★ After performing the DFU update operation user can see the DFU Upgrade Process as shown in Image 2.





- ✦ After the successful DFU process is complete user can see the Upgraded FW version of the smart device as seen in Image 4.

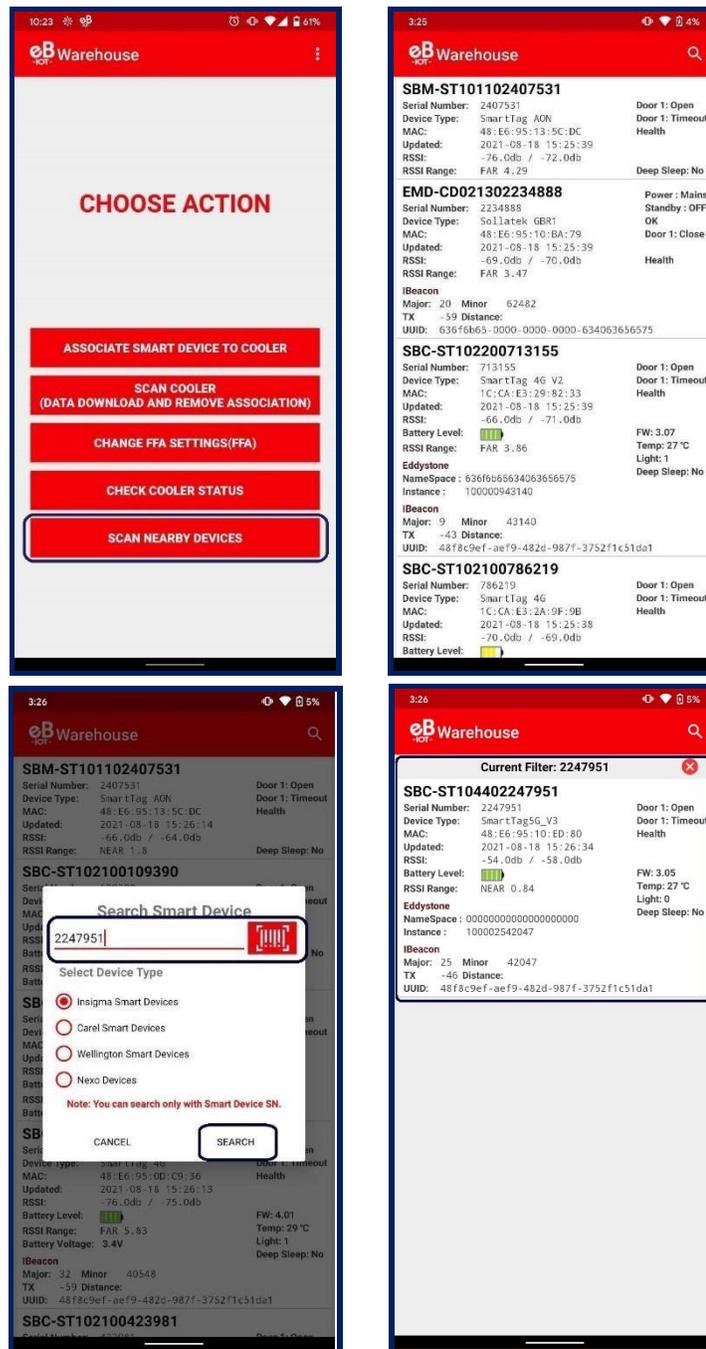


## SCAN NEARBY DEVICES

- ✦ Scan Nearby Devices functionality can be used for checking the advertisement of the smart device in Bluetooth range.

- As shown in the first image there is a list of all available smart devices that are coming into range. Users can search the Smart device with help of the Scan Barcode option or Manual Enter option. The scanned result will be shown as in the last image.

### SCAN INSIGMA SMART DEVICE

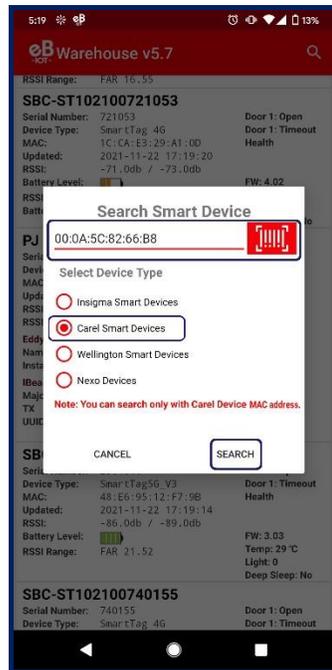


### SCAN CAREL SMART DEVICE

- Users can search for smart device with the help of Scan Barcode option or Manual Enter option only with the MAC Address of a Carel device.

✦ The scanned result will be shown as the last image.

**Note:** User can search Wellington Smart device and Nexo device using Device Name.



## LIST OF ERRORS, ALERTS, AND OK MESSAGES

|                  |               |            |
|------------------|---------------|------------|
| DETAILED MESSAGE | SHORT MESSAGE | USER STORY |
|------------------|---------------|------------|

| SCAN COOLER                                                                                       |                  |                                                                                                                   |
|---------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------|
| Cooler SN or Technical ID <Cooler SN> is associated with Gateway <GW SN>                          | <b>Error 101</b> | If Cooler is available in the portal and not associated with any smart device but associated with any gateway.    |
| Cooler SN or Technical ID <Cooler SN> is associated with Smart Device <SD SN>                     | <b>Error 102</b> | If Cooler is available in the portal and not associated with any gateway but associated with any smart device.    |
| Cooler SN or Technical ID <Cooler SN> is associated with Gateway <GW SN> and Smart Device <SD SN> | <b>Error 103</b> | If Cooler is available in the portal but associated with Smart Device and the gateway.                            |
| Cooler SN or Technical ID <Cooler SN> does not exist in portal                                    | <b>Error 104</b> | If the cooler does not available in the portal.                                                                   |
| Duplicate Cooler SN on cloud, try with the Technical ID or check with the Support Staff           | <b>Error 110</b> | Duplicate Cooler SN on a cloud, try with the Technical ID or check with the Support Staff                         |
| Duplicate Technical ID on cloud, try with the Cooler SN or check with the Support Staff           | <b>Error 111</b> | Duplicate Technical ID on a cloud, try with the Cooler SN or check with the Support Staff                         |
| ASSOCIATION                                                                                       |                  |                                                                                                                   |
| No Association data is available for upload                                                       | <b>OK</b>        | Shown when there is no data for upload.                                                                           |
| All Association data was uploaded successfully                                                    | <b>OK</b>        | Shown when all association data is uploaded.                                                                      |
| There are no Failed Associations                                                                  | <b>OK</b>        | Shown on the Failure Association Info screen when there are no associations that have failed.                     |
| Smart Device <SD SN> is associated successfully to Cooler <Cooler SN>                             | <b>OK</b>        | Shown after successful association.                                                                               |
| You must upload Association data in order to logout                                               | <b>Alert 50</b>  | Shown when a user presses Logout but offline associated data is available.                                        |
| Do you want to upload? Association data to avoid missing data?                                    | <b>Alert 51</b>  | Shown on Device Selection screen when offline associated data available.                                          |
| Please select what Smart Device you want to associate                                             | <b>Alert 52</b>  | Shown on Device Selection screen when the user does not select any device option for the association.             |
| No associations were uploaded                                                                     | <b>Alert 53</b>  | Shown on Successful Association Info when no successful info is there.                                            |
| Cooler Serial Number is not scanned                                                               | <b>Alert 54</b>  | Shown on Cooler SN screen when user canceled the barcode reading.                                                 |
| Smart Device Serial Number is not scanned                                                         | <b>Alert 55</b>  | Shown on Smart Device SN screen when user canceled the barcode reading.                                           |
| You must upload Association data                                                                  | <b>Alert 56</b>  | Shown on Device selection screen when offline data is available.                                                  |
| The barcode scanner is not supported                                                              | <b>Error 50</b>  | Shown on Scan Cooler SN and Scan Smart Device SN Screen if the mobile phone does not support the barcode scanner. |
| Smart Device is not available for association                                                     | <b>Error 51</b>  | Shown on Scan Smart Device SN screen when smart device not found in Unassigned List.                              |
| Smart Device is already associated                                                                | <b>Error 52</b>  | Shown on the Scan Smart Device SN screen if the Smart Device is already associated.                               |
| Smart Device Serial Number is not valid                                                           | <b>Error 53</b>  | Shown on the Scan Smart Device SN screen if the Smart Device SN is not valid.                                     |

|                                                                              |                 |                                                                                                                                                               |
|------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooler Serial Number was not scanned                                         | <b>Error 54</b> | Shown on Scan Cooler SN when the user cancels the barcode scanning or any issue while barcode scanning arises.                                                |
| Cooler has another device associated to it                                   | <b>Error 55</b> | Shown on the Scan Cooler SN screen if the Cooler has a Smart Device already associated with it.                                                               |
| Please enter Cooler Serial Number                                            | <b>Error 56</b> | Shown on the Scan Cooler SN screen when in Manual Mode for Cooler SN and the user presses the save Button without entering the Cooler SN.                     |
| Please enter Smart Device Serial Number                                      | <b>Error 57</b> | Shown on the Scan Smart Device SN screen when in Manual Mode for Smart Device SN and the user presses the save button without entering the Smart Device SN.   |
| Smart Device Configuration failed, please try again                          | <b>Error 58</b> | Shown on the Association screen when a command fails.                                                                                                         |
| Smart Device configuration file missing                                      | <b>Error 59</b> | Shown on the Association screen when Configuration JSON missing for the Smart Device.                                                                         |
| Not all Association data was uploaded successfully                           | <b>Error 60</b> | Shown when some association failed to be uploaded.                                                                                                            |
| Smart Device not found, please try to wake up the Smart Device and try again | <b>Error 61</b> | Shown on the Association screen when the application is not able to connect to the Smart Device.                                                              |
| Session expired, please check your internet connection and login again       | <b>Error 62</b> | Shown when User Session expired (Token expired) on the server.                                                                                                |
| Please check your internet connection and try again                          | <b>Error 63</b> | Shown when Wi-Fi and mobile data are off and the user calls the API.                                                                                          |
| Cannot connect to the Smart Device, please change the Smart Device           | <b>Error 64</b> | Shown on the Association screen when smart device connection is not working (when the device was found but did not connect to the phone after the 2nd retry). |
| Cannot connect to server, please try again                                   | <b>Error 65</b> | Shown on Login and Upload Association Data screen when API calling in between timeout happen or any server connection error.                                  |
| Cooler Serial Number is not valid                                            | <b>Error 66</b> | Shown on Cooler SN Screen when the cooler serial number is not valid.                                                                                         |
| Invalid response from the server                                             | <b>Error 67</b> | Shown on Uploading association when the server gives an invalid response.                                                                                     |
| Device is not connected, please connect again                                | <b>Error 68</b> | Shown on the association screen when we are trying to execute a command and the device is not connected.                                                      |
| Device Configuration not available                                           | <b>Error 69</b> | Shown when Smart Device Type The configuration is not found for the particular device.                                                                        |

## APPLICATION VERSION LOGS

| VERSION | DATE       | CHANGES                                                                                                                                                                                                                                                                     |
|---------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.9     | 12.08.2021 | <ul style="list-style-type: none"> <li>✦ Resolve GBR1 Advertisement issue</li> <li>✦ Added some new text Message</li> </ul>                                                                                                                                                 |
| 4.8     | 09.08.2021 | <ul style="list-style-type: none"> <li>✦ Add BLE Popup not coming while Bluetooth is off</li> </ul>                                                                                                                                                                         |
| 4.7     | 03.08.2021 | <ul style="list-style-type: none"> <li>✦ Resolved Discrepancy in check cooler status parameter</li> <li>✦ Update Check Cooler Status Tabs from Advertisement of Smart Devices</li> <li>✦ Resolved Battery Percentage Tab Issue in the Check Cooler Status Action</li> </ul> |
| 4.6     | 20.07.2021 | <ul style="list-style-type: none"> <li>✦ Resolved Sollatek FFXy Scanning Issue</li> <li>✦ Resolved Cooler SN Scan issue in Scan Cooler Option</li> </ul>                                                                                                                    |
| 4.5     | 07.07.2021 | <ul style="list-style-type: none"> <li>✦ Resolved Sollatek FFXy Scanning Issue</li> <li>✦ Resolved Cooler SN Scan issue in Scan Cooler Option</li> </ul>                                                                                                                    |
| 4.4     | 29.06.2021 | <ul style="list-style-type: none"> <li>✦ Auto App Update Functionality Updated</li> <li>✦ Added Sollatek FFX and FFXy Support</li> </ul>                                                                                                                                    |
| 4.3     | 23.06.2021 | <ul style="list-style-type: none"> <li>✦ Macedonian language Support Added</li> </ul>                                                                                                                                                                                       |
| 4.2     | 11.05.2021 | <ul style="list-style-type: none"> <li>✦ Resolved Change FFA Setting Issue</li> <li>✦ Added Scan Nearby Device Functionality</li> </ul>                                                                                                                                     |
| 4.1     | 19.04.2021 | <ul style="list-style-type: none"> <li>✦ Resolved Association Issue found in Last Application</li> </ul>                                                                                                                                                                    |
| 4.0     | 25.03.2021 | <ul style="list-style-type: none"> <li>✦ Resolved Issue of Change FFA Settings</li> </ul>                                                                                                                                                                                   |
| 3.9     | 24.03.2021 | <ul style="list-style-type: none"> <li>✦ Message Changes for invalid Login</li> <li>✦ Success Association Info Tab issue</li> <li>✦ Cooler SN/Barcode Issue in Manually Enter</li> <li>✦ Retry Issue on DFU Process</li> </ul>                                              |
| 3.8     | 01.03.2021 | <ul style="list-style-type: none"> <li>✦ Display Reason to Enable Location, Camera, and Storage</li> </ul>                                                                                                                                                                  |
| 3.7     | 01.02.2021 | <ul style="list-style-type: none"> <li>✦ Change app access depending on the role</li> <li>✦ Prevent users with Sales Rep role from removing Controller type devices</li> </ul>                                                                                              |
| 3.6     | 08.01.2021 | <ul style="list-style-type: none"> <li>✦ Add support of 240 bytes packet size</li> </ul>                                                                                                                                                                                    |
| 3.5     | 15.12.2020 | <ul style="list-style-type: none"> <li>✦ Association Should happen in case of failure of DFU Process</li> <li>✦ FFM2BB DFU Now Working</li> </ul>                                                                                                                           |
| 3.4     | 02.12.2020 | <ul style="list-style-type: none"> <li>✦ Association Should happen in case of failure of DFU Process</li> </ul>                                                                                                                                                             |
| 3.3     | 18.11.2020 | <ul style="list-style-type: none"> <li>✦ Messages Text Need to Update after API Changes</li> <li>✦ Implement automatic FW upgrade during the association</li> <li>✦ New Version of 'firmware download API'</li> </ul>                                                       |
| 3.2     | 11.06.2020 | <ul style="list-style-type: none"> <li>✦ Auto-login ignore when user call login API and get error 401</li> </ul>                                                                                                                                                            |

|             |                   |                                                                                                                                                                                                                                                                                                             |
|-------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3.1</b>  | <b>23.10.2020</b> | <ul style="list-style-type: none"> <li>✦ Implement automatic FW upgrade during the association</li> <li>✦ Messages Text Need to Update after API Changes</li> <li>✦ Add Gateway HUB and Android id Details on Login Page</li> </ul>                                                                         |
| <b>3.0</b>  | <b>24.09.2020</b> | <ul style="list-style-type: none"> <li>✦ Add Forgot password functionality to the start screen</li> <li>✦ Address API issues in Version 2.4 - scanning and removal of the association</li> </ul>                                                                                                            |
| <b>2.9</b>  | <b>07.09.2020</b> | <ul style="list-style-type: none"> <li>✦ Delete all telemetry data during the association</li> </ul>                                                                                                                                                                                                        |
| <b>2.8</b>  | <b>31.08.2020</b> | <ul style="list-style-type: none"> <li>✦ Resolved the DFU issue with the FFX devices</li> <li>✦ Now Light Showing in Numeric value</li> </ul>                                                                                                                                                               |
| <b>2.7</b>  | <b>19.08.2020</b> | <ul style="list-style-type: none"> <li>✦ Insigma devices showing # for Light Intensity</li> <li>✦ Bugfixes</li> </ul>                                                                                                                                                                                       |
| <b>2.6</b>  | <b>11.08.2020</b> | <ul style="list-style-type: none"> <li>✦ Bugfixes</li> <li>✦ UI changes</li> <li>✦ Fixing issue in FFA Parameter screen</li> <li>✦ Battery Status is shown in % now</li> </ul>                                                                                                                              |
| <b>2.5</b>  | <b>28.07.2020</b> | <ul style="list-style-type: none"> <li>✦ Update with scanning functionality</li> </ul>                                                                                                                                                                                                                      |
| <b>2.4</b>  | <b>30.06.2020</b> | <ul style="list-style-type: none"> <li>✦ Bugfixes</li> <li>✦ Change in Cooler Scanning Functionality</li> </ul>                                                                                                                                                                                             |
| <b>2.3</b>  | <b>01.06.2020</b> | <ul style="list-style-type: none"> <li>✦ Change Controller Parameters.</li> <li>✦ App Version Update Functionality Implemented</li> <li>✦ Cooler SN/Technical ID Search Not working Proper</li> <li>✦ Issue from Google – Trust Manager</li> <li>✦ Change in Message Pop-up Texts and UI Changes</li> </ul> |
| <b>2.2</b>  | <b>07.04.2020</b> | <ul style="list-style-type: none"> <li>✦ Crash Issue</li> <li>✦ Server Selection Menu/Option Getting Higher time to Open/dropdown ✦ Retry show option to remove the association</li> </ul>                                                                                                                  |
| <b>2.1</b>  | <b>28.01.2020</b> | <ul style="list-style-type: none"> <li>✦ various bug Fixes</li> <li>✦ Cooler SN and Technical ID not visible in Successful Association info Screen</li> </ul>                                                                                                                                               |
| <b>2.0</b>  | <b>16.01.2020</b> | <ul style="list-style-type: none"> <li>✦ various bug Fixes</li> <li>✦ Change page - Header and UI</li> <li>✦ Sometimes device details not get in App</li> <li>✦ Cooler Search Issue</li> </ul>                                                                                                              |
| <b>1.10</b> | <b>13.01.2020</b> | <ul style="list-style-type: none"> <li>✦ Made design changes</li> </ul>                                                                                                                                                                                                                                     |
| <b>1.9</b>  | <b>06.01.2020</b> | <ul style="list-style-type: none"> <li>✦ Added support for the Technical ID association with new API</li> </ul>                                                                                                                                                                                             |
| <b>1.8</b>  | <b>17.12.2019</b> | <ul style="list-style-type: none"> <li>✦ App crashes when we click on a Wellington device and a Nexa device</li> </ul>                                                                                                                                                                                      |

|     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.7 | 05.12.2019 | <ul style="list-style-type: none"> <li>✦ various bug Fixes</li> <li>✦ Download Unassigned device list and Smart Device Configuration ✦ Add new screens for: <ul style="list-style-type: none"> <li>• Association</li> <li>• Scan cooler and data download</li> <li>• selecting where the association is taking place</li> <li>• Choose Device Type</li> <li>• Identify Cooler or Technical ID</li> <li>• Scan BT SN</li> <li>• Associate Device</li> <li>• Integrate association fail and success logs</li> </ul> </li> <li>✦ logout pop-up to Choose an Option screen</li> </ul> |
| 1.6 | 05.11.2019 | <ul style="list-style-type: none"> <li>✦ Play store version_1.5 Login Issue</li> <li>✦ Change EBest icon</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1.5 | 09.01.2019 | ✦ Bugfender SDK 1.1 Integration in Application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1.4 | 12.12.2018 | ✦ Support MAC address starting with 48: E6:95.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.3 | 03.10.2018 | ✦ Duplicate entry issue in Remove Association and Download data logs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1.2 | 28.09.2018 | ✦ Add Auto Login when session expired                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1.1 | 12.09.2018 | <ul style="list-style-type: none"> <li>✦ Design Issue</li> <li>✦ Data Upload Functionality when data are downloaded offline</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1.0 | 21.08.2018 | ✦ Initial changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## MINIMUM REQUIREMENTS FOR THE PHONES

| COMPONENT              | MINIMUM REQUIRED                     |
|------------------------|--------------------------------------|
| OPERATING SYSTEM       | Android Version 8.0 (Oreo) and above |
| OPERATING MEMORY (RAM) | 2 GB and Above                       |
| BLUETOOTH              | BLE Version 4.2 and above            |

## SUPPORTED PHONES

| BRAND | MODEL (OS) |
|-------|------------|
|-------|------------|

|                |                        |
|----------------|------------------------|
| <b>GOOGLE</b>  | PIXEL 4A (11)          |
| <b>GOOGLE</b>  | PIXEL 3A (11)          |
| <b>SAMSUNG</b> | A10 (10)               |
| <b>ASUS</b>    | ZENFONE MAX PRO M1 (9) |
| <b>XIAOMI</b>  | REDMI 6 PRO (9)        |
| <b>XIAOMI</b>  | REDMI NOTE 8 PRO (10)  |

**Headquarters****United States**

24805 PinebrookRd,Suite 315,  
Chantilly,Virginia 20152.

**Email:** [mail@visioniot.com](mailto:mail@visioniot.com)

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